

# AMERICAN BUILDER

APRIL 1954

TWO DOLLARS

## 1954 CATALOG DIRECTORY For The Light Construction Industry

INFORMATION FILE  
A-Z

**PRODUCTS . . . .** who makes them

**BRAND NAMES . . . .** whose they are

**DISTRIBUTORS . . . .** how to find them

**REFERENCE DATA . .** for the first time,  
a comprehensive digest of publications  
on all phases of home building



**Stop the "Shoppers" with  
the BIG, DRAMATIC FEATURE  
they CAN SEE FROM THE STREET**

**CRAWFORD GARAGE DOORS with CUSTOMIZED DESIGN is one big, dramatic feature that they CAN SEE FROM THE STREET.**

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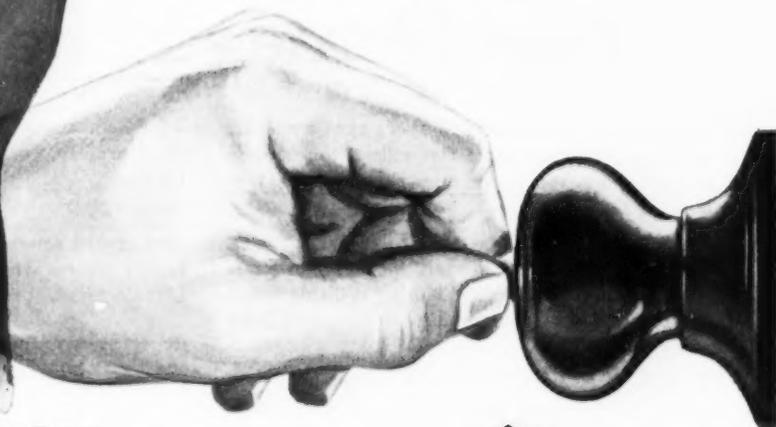


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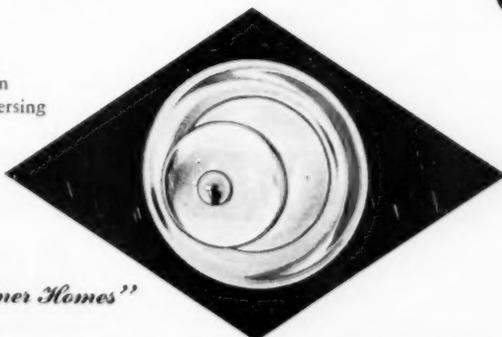


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Vol. 76. No. 4

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FOR BUILDERS**

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**Thicknesses:** 5/16" and 3/4"—fir only. **Widths:** 48" only.

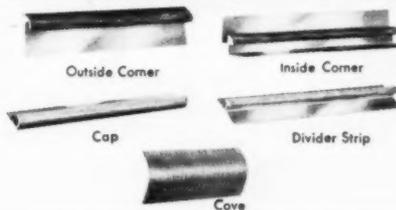
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is available in squares: 11 7/8", 12", 15 1/8", 16", 24" . . . packed in handy cartons.  
**IN FIR—11 7/8", 15 1/8".**

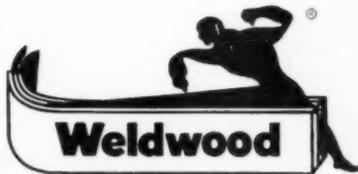
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 EXHAUST  
 VENTILATOR

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SPECIFY THE LINE DESIGNED BY

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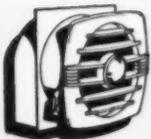
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## **Time and Money – How to Save Both**

**I**T HAS been said that the sale of a house begins on the drafting board, that designing the house is the first step in its sale. In a sense that is true, because the best sales know-how cannot cope with poor design. But good design is largely dependent on something even more remote from the point of sale. That something is a knowledge of the best and latest building materials and appliances. Very important, also, are knowledge of the market in which the house is to be offered, and acquaintance with up-to-the-minute cost-saving building techniques.

Assuming that all of these necessary ingredients of good design have been used, and that the package which is to be sold in a given market meets the requirements of an alert and informed sales force, it is highly important that the builder know where he can buy the materials and appliances which have been specified.

Aware of the need for a single source for all of the information concerning the ingredients of good design, and its end result, good selling, *American Builder's* editors, after conferences with builders and manufacturers, have prepared this special issue. It contains four unique editorial features, compiled over a period of many months, and representing the opinions and advice of numerous builders and producers. All who have had a part in the issue believe that it represents the most complete reference index to the widest scope of specific

information ever offered to home builders and distributors.

The bibliography of up-to-date publications covering every phase of the light construction industry is new. Nothing like it has ever been published before. It enables the builder to put his finger on sources of authentic information that will answer any conceivable question he may have.

The alphabetical listing of building products, each with the name and address of the manufacturer, has been redesigned for easier reading and to give more complete information.

The alphabetical listing of brand names enables the reader to find the name of the manufacturer whose particular brand name he knows.

Finally, a list of distributors will, in many cases, save the builder countless hours of searching, and will save the manufacturers who have provided their lists many sales that might otherwise be lost through the builder's inability or lack of time to find a source for a desired product.

To these four features must be added the advertisers' display pages. In all cases advertisers have been urged to prepare special copy that ties into the scheme of the issue.

Readers are urged to keep this volume conveniently at hand throughout the year. It will save time, money and energy in finding the answers to many problems that confront the industry in this year of tightening competitive selling.

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# TRENDS *in the Building Field*

## analyze your local housing market

CAREFUL analysis of your local housing market is more necessary than ever this year. Even though starts for January, 1954, were 66,000 units, eight per cent below last year, reports from around the country indicate that builders in most areas plan a volume of residential building in 1954 equivalent to or exceeding last year. Despite the January decline, it is entirely possible that the tempo will increase during the year and that builders again will build a million new dwelling units in 1954.

On the other hand, there has been a darkening of the economic picture recently. Unemployment is spreading in some areas. The number of prospective home buyers is diminishing, since the new families being formed, for the most part, represent persons born during the depression when birth rates were low.

In any event, local conditions are the determining factor in the housing market. Many markets will continue to absorb new homes at record levels, while others have reached a supply and demand balance, or a period of declining demand. What is needed is an extensive and continuous program of market analysis in every community of 50,000 or more population, and in many smaller communities as well. This could be the responsibility of the Chamber of Commerce, the Home Builders' Association or individual builders in all sizeable communities.

A very complete analysis of this kind is made in San Diego, California where the research department of the Chamber of Commerce prepares a quarterly summary entitled, "San Diego Housing Report." This report consists of 44 mimeographed pages containing a wealth of statistics and analysis which are undoubtedly of great value to builders in making future plans.

The report includes statistics on births, marriages, divorces and deaths during the last four years. These statistics are available at the

County Building in any community.

Other tables of statistics include real estate transfers, union wage scales, mechanics' liens, and a building cost index. The cost index is worked out locally; it is based on a standard two-bedroom house of 380 square feet and a 239 square foot garage.

Also in the report is a compilation of FHA applications received, number of veterans' home loans and the number of new dwelling unit permits by areas.

Here are several excerpts from a typical San Diego report made late in 1953:

"Although thousands of new dwelling units are being completed in the San Diego area, they were being absorbed without a sharp increase in the vacancy rate. However, there are indications that supply and demand are approaching a balance.

"A post office survey made during the week of September 14th disclosed 4,021 vacancies, more than double the number found in a similar canvas made in 1952.

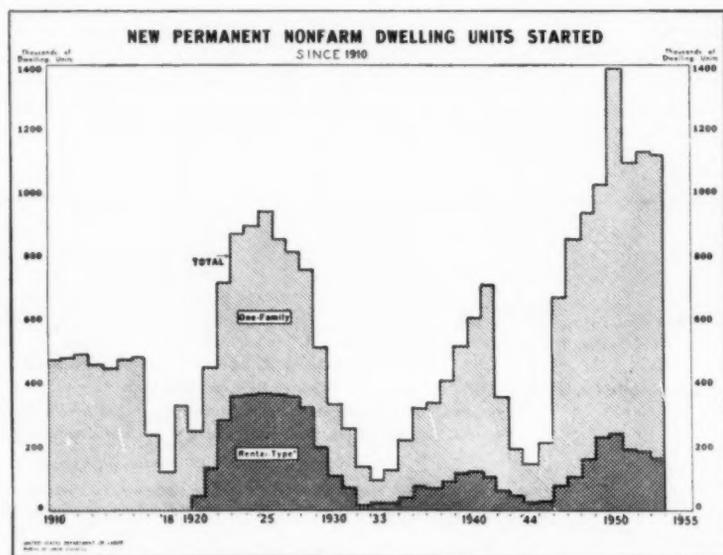
"The Building Cost Index fell slightly, due primarily to increased competition for business. Competi-

tion is leading some contractors to accept smaller profits. There has been no drop in construction industry wage rates or in the over-all cost of materials.

"An all time record for private residential construction in San Diego was established in the third quarter, when permits were issued for 2,982 dwelling units. A sharp drop in housing starts can be anticipated in the fourth quarter. Building permits have now been issued for most of the defense housing."

Such a continuing study of the housing market as the San Diego quarterly report would not necessarily require a great deal of time or effort. Initially, it might require a considerable amount of time to find local sources of data, but once the first report is made, successive reports could be compiled quickly.

The chart on this page shows the drastic ups and downs of the residential building industry since 1910. Stability in both the local and national picture is required if the industry is to achieve full employment and production in the years to come. Market analysis at both these levels can help maintain stability.



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in 20 Years!" — SAID THE MASONRY FOREMAN**

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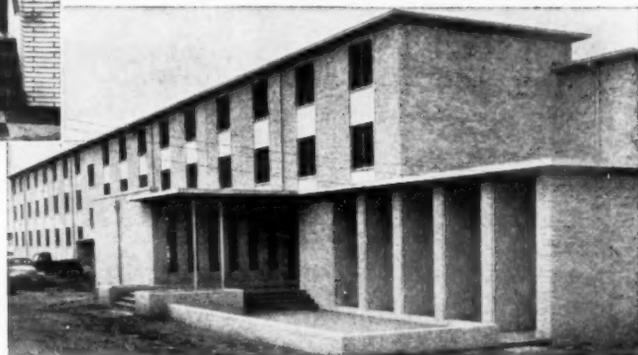
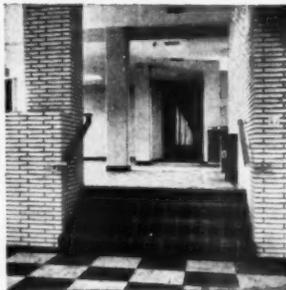
*This modern masonry mortar saves time at the mixing box:* One less cementing material to handle . . . no lime or portland cement to add. Uniform mortar throughout the job . . . because there is one less variable in proportioning.

*Saves time on the scaffold, too:* Extra-smooth, easier-spreading mortar helps Masons place and bed more brick or block in a given time. You can go header high before striking joints . . . clean, smooth joints which add so much to appearance.

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# Buildercast

- LOCAL NEWS
- FORECASTS
- NEW TRENDS

## NORTHERN area



A \$15,000,000 HOUSING MARKET has just been tapped in Pittsburgh, where builders and allied interests are wading into a backlog of new homes needed for Negroes.

Census figures revealed 1,545 members of the city's Negro population with incomes of \$3,500 to over \$10,000, many forced to occupy substandard housing in the congested Hill district. This spells a need for homes in the \$10,500-\$15,000 range, declares the Home Builders Association of Metropolitan Pittsburgh.

To meet this potential demand, A. M. Rearick, association president, created the non-profit Private Housing, Inc., composed of nine HBA members who have put up \$100,000 working capital for acquisition of home sites. The corporation is now buying the land, some of it vacant for years, some already carrying substandard rental housing.

HBA members will do the building; the Mellon Bank has agreed to issue some of the mortgage money and FHA has indicated it will insure the mortgages.

In addition to Rearick, members of Private Housing, Inc., include Theodore A. Rauch, C. F. McWilliams, Calvin D. Crawford, Roland S. Catarinella, Russell P. Miller, Franklin B. Wimer, Stephen E. Kovach Jr. and Harold Sampson.

HEAVY LOW-COST DEMAND exists in Sandusky, Ohio. Local chamber of commerce survey of 5,670 household heads disclosed that 49 per cent were renting or doubling up and that 74 per cent of the latter group were interested in a home priced between \$7,500 and \$10,000.

Check of 15 members of Omaha Home Builders Association, who built 648 houses last year, found them planning to put up 736 units this year. Seven said they would increase their output this year, five will hold to their

former pace while only three expect to cut production.

Best start since 1940 is the story from metropolitan Chicago. Survey of its 98 communities shows 323 more home permits issued during January-February than in the same period last year. Valuation had increased too, by \$5,994,740.

Another fast '54 start is the word from Toledo, where six of the largest home building organizations averaged better than \$250,000 in sales the first six weeks.

INVENTORY OF UNSOLD NEW HOMES is new monthly service to show members of Montgomery County Builders Association of Dayton, Ohio, which way the sales winds are blowing.

Members receive questionnaires at end of each month, are urged to return them listing number of homes unsold according to price class, average time from completion to sales and number of sales planned for the month. Results are tabulated in association bulletin and rushed to members a week later.

First month charted, February, was ignored by a few members, but showed only 64 "unsolds" (nearly half in \$15,000 to \$20,000 range) and 107 planned starts.

Along somewhat similar lines, Home Builders Association of Mahoning Valley, Youngstown, Ohio, will report residential building permits issued each month and compare them with corresponding totals of a year ago.

COST BREAKDOWN of typical conventionally-built home has been prepared by the Mahoning Valley group and is to be refigured periodically by several builder members. This is expected to indicate changes in construction costs, other trends.

DICK HUGHES, President, N.A.H.B.



**"THE 'NEW LOOK' IN HOME BUILDING**—in design and in decoration—is one of the best sales producers in a buyers' market. So are nationally advertised materials and appliances. Their names often say the last convincing word, 'quality,' to prospective buyers. That's one good reason why we use 28 Post-advertised products in the homes we're building."  
*(Manufacturers of building materials, equipment and fixtures place more advertising dollars in the Post than in any other consumer magazine.)*

The Saturday Evening  
**POST**

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**cuts wood and resilient floor tile**

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**cuts and bevels metal wall tile**

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**cuts all resilient floor tile**

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## ON and OFF the RECORD

**PACKAGING** is becoming the all-important word in the new search for ways to reduce building costs. Everyone concerned with the subject appears to be convinced that the development of new packages—principally through panelization—is the best answer.

**AT LEAST** 50 intense studies are under way right now, each one aimed at developing a new package. Trouble with these studies is that nearly all of them are being carried on independent of the others.

**BIG NEED** is a clearing house for exchange of ideas and co-ordination of effort.

**DISTRIBUTION** is probably the second of the all-important words involved in the new studies, because setting up the most economical distribution systems for the new packages is just about as important as development of the packages.

**CO-ORDINATION** is on the way. Manufacturers, dealers and builders have come to realize that any new package developed by any one of the three must meet the current and potential needs and limitations of the other two if it is to be successful.

**FOR INSTANCE**, a new package independently developed by a manufacturer should not be promoted until the producer is sure that it will be used by builders, and that it can be obtained locally.

**IN THE MIDDLE** is the distributor. He must also know that any package he develops will be acceptable to builders, and that the components of the package can be produced by manufacturers.

**IT IS EXPECTED** that a definite forward step in co-ordination of thinking and effort will be reported within the next sixty days.

**JUST A WORD** about the distribution of the new packages. It is noticeable that in some of the plan-

ning, packages are being discussed with respect to the limitations of horizontal delivery.

**LONG RANGE** development might well consider the possibility or probability of vertical delivery to the job site. That is, helicopter delivery, lifting a pallet or package from the fabrication plant or assembly or distribution yard, and setting it on a scaffold or work deck without the need to unload and hoist.

**MAYBE SOME** of that is feasible now. Military operations in Korea used the helicopter effectively for vertical delivery of both personnel and materiel.

**IF THE COST** of vertical delivery from above for some of the current and proposed packages is too high, it is conceivable that research might develop a new type or size of package for economical delivery by means of helicopter.

**APPRAISING THE 1954** market a few days ago, someone wisely said that if a builder can keep pace with competition he will get a high volume during the year, but if he can step ahead of competition by even a slim margin, he can get a fabulous volume.

**ALBERT M. COLE**, HHFA administrator, said recently, "It is the conviction of this committee (President's Advisory Committee) that the constant improvement of the living conditions of all the people is best accomplished under a strong, free competitive economy, that every action taken by government in respect to housing should be for the purpose of facilitating the operation of that economy to provide adequate housing for all the people. . . ."

**"IT'S ANOTHER WAY** of saying." said Cole, "what the President himself said with respect to the liberal attitude of his administration in resolving human problems within the framework of a conservative economic policy."

**"VOCABULARY,"** says Phil Creden, public relations director of the Edward Hines Lumber Company, "is one of the major and badly neglected tools of good selling."

**CREDEN COMMENTED** that to talk professionally about lumber, for instance, a man has to learn over 200 new words. If you add millwork, insulation, wallboard, plywood and roofing you get a list of over 500 new words a young employee has to master.

**THAT'S A SIZEABLE** task, and if a dealer proposes to convert his lumber yard into a general store for building materials of all kinds, he makes it impossible, Creden stated, for a young salesman to become a specialist in anything. It's an age of specialization, he concluded, and there is a need for specialists in the sale of lumber products, insulation and roofing.

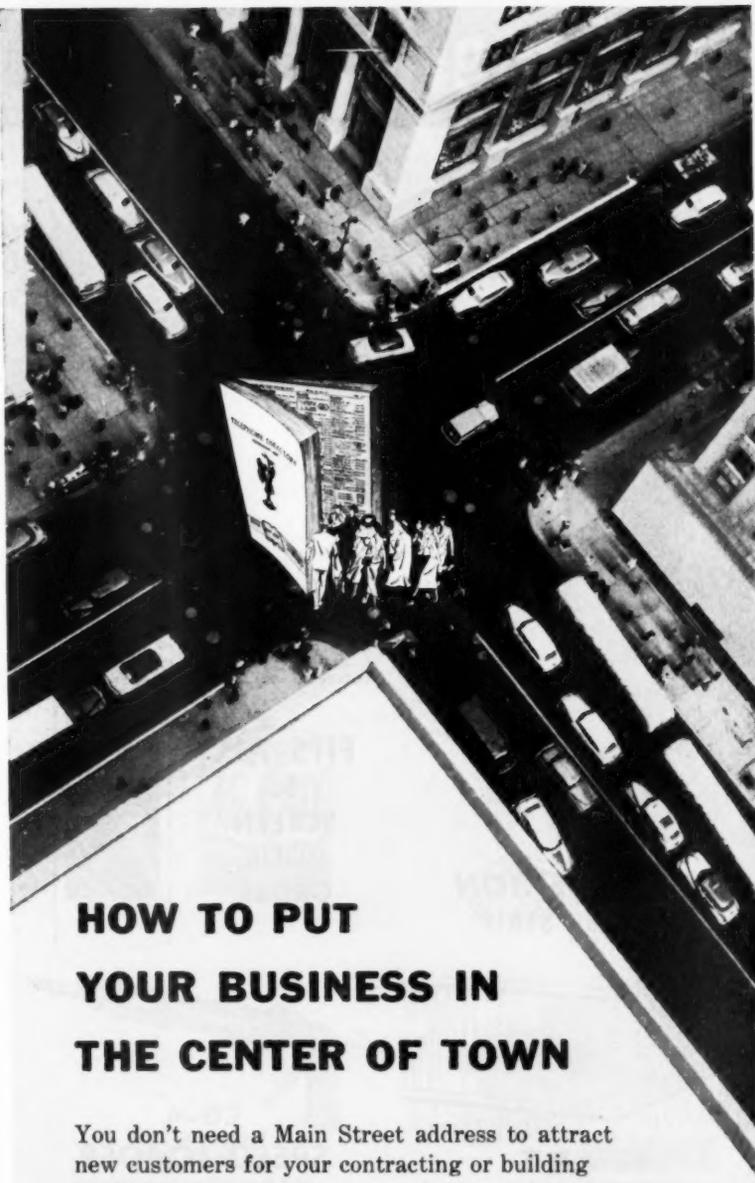
**TO THAT,** we say, "Amen." If we are going to solve the admitted distribution troubles of the light construction industry, particularly as they apply to the troubles of the retailer, the time has come for the retailer to realistically appraise what he can sell on a level of high specialization and service, and cut his cloth accordingly.

**"IT GETS DOWN** to just this," continued Creden. "If you want to sell new houses, you've got to set up sales, merchandise and service for that purpose. The same applies to garages. Don't dissipate a lot of advertising money on 'traffic builders.' People who come in to buy garbage cans don't turn around and say 'I'll buy a garage to go with it.'"

**THE DAY** of the purely residential town is gone, at least for a number of years. Mounting tax burdens in suburban residential towns threaten to break the economic backs of the residents. The only answer to the tax problem is industrial development, and with few exceptions, the town that hopes to survive will have to invite industry to come in and share the tax load.

**THAT GIVES RISE** to new zoning problems, and even the town that hopes to resist industry will do well to start zoning now against the day when it will have to woo industry.

APRIL 1954



## HOW TO PUT YOUR BUSINESS IN THE CENTER OF TOWN

You don't need a Main Street address to attract new customers for your contracting or building business.

Use the 'yellow pages' of the telephone directory. That's where people look when they're looking for a contractor or builder. Using the 'yellow pages' has been an American buying habit for over 60 years.

The 'yellow pages' get your name, address, telephone number and sales messages in homes, offices, shops and factories all over town.

It's like putting your business right square in the buying center of your community.



Get in touch with the Classified Telephone Directory Representative at your local telephone business office.

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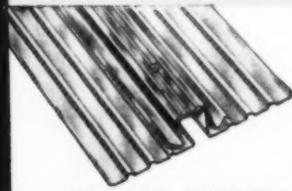
*Nu-ART*  
**LETTERS**



*Nu-CALK*  
**SPEED**  
**LOAD**



*Nu-WAY*  
**WEATHER STRIP**

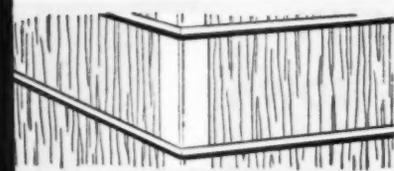


**TWIN-CUSHION**  
**WEATHER STRIP**

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*Numetal*  
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*Nu-ART*  
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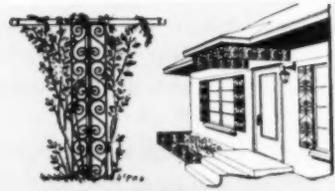
**CG-4**  
**SPEED LOADER**  
**CALKING GUN**



*Nu-LUME* REFLECTING  
**NUMBERS & LETTERS**



*Nu-WAY*  
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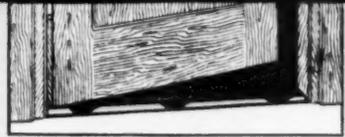
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**Nu-Glaze**  
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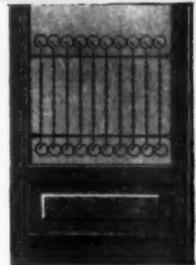
**FITS-ALL**  
NO. 5  
SCREEN  
DOOR  
GRILLE



**Nu-ART**  
NUMBERS



**Nu-WAY**  
SCREEN  
DOOR  
GRILLE



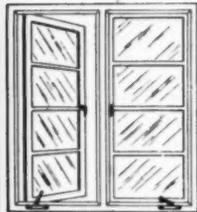
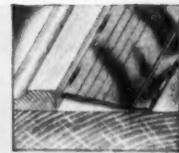
**Nu-ART**  
MOULDING  
AND TRIM



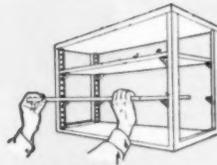
**Nu-CALK**  
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FOR STEEL  
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# M-D

MACKLANBURG-DUNCAN CO.

## FITS-ALL NO. 5

Gracefully designed, yet fully adjustable for nearly all wood or metal doors! Made of silvery-satin Alacrome that will not rust or tarnish. Patented holder makes installing easy! Surface clamps for fastening grille to outside of door included.

### Attractive Display Carton Shows 'em and Sells 'em!

Each grille packed in individual, colorful carton with complete instructions for installing and suggestions for arranging scrolls. Really an eye-catching display!



## Beautifies Screen Doors...

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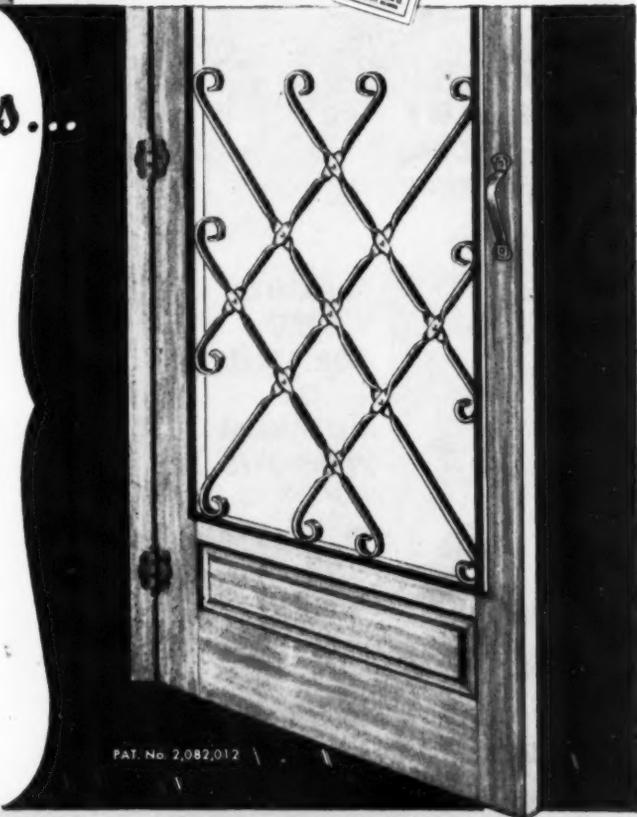
**FITS-ALL NO. 1**—Instantly adjustable to all screen doors. Accordion-like action permits expansion from 16" to 30 $\frac{3}{4}$ " in width between stiles and from 40 $\frac{1}{2}$ " to 30 $\frac{3}{4}$ " high. Squared up size is 30 $\frac{3}{4}$ " x 30 $\frac{3}{4}$ ". Packed 12 to carton—screws furnished. Made of Alacrome—silvery-satin finish.

**FITS-ALL NO. 2**—For doors with divided sections. Each side adjusts from 13" wide and 19 $\frac{3}{4}$ " high to 14 $\frac{1}{2}$ " wide and 17 $\frac{1}{2}$ " high. Will not rust or tarnish. Packed 12 pairs to carton.

**FITS-ALL NO. 3**—For lower section of door with cross-bar. Fully adjustable from 14" wide and 32 $\frac{1}{2}$ " high between stiles to 25" wide and 25" high between stiles. Silvery-satin Alacrome finish. Packed 12 to carton.

**FITS-ALL NO. 4**—For upper section of doors. Adjusts from 19 $\frac{1}{2}$ " wide and 34" high between stiles to 33 $\frac{3}{8}$ " wide and 20 $\frac{3}{4}$ " high between stiles. Will not rust or tarnish. Packed 12 to carton.

**FITS-ALL NO. 7**—Adjusts from 18" wide to 32" high between stiles to 24 $\frac{3}{4}$ " wide to 27" high. Squares up at 26" x 26". Packed 12 to carton.



PAT. No. 2,082,012



ORDER TODAY! Your order will be shipped same day received!

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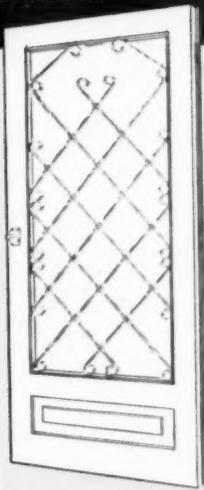
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# FITS-ALL Adjustable Screen Door GRILLES

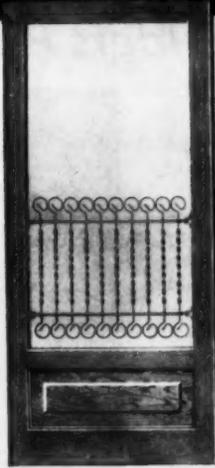
## America's Most Complete Line!



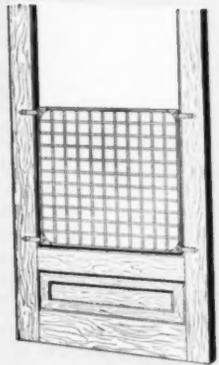
**FITS-ALL NO. 56**—Easily installed and fully adjustable. Made of Alacrome with silvery-satin finish—will not rust or tarnish. Packed in individual carton.



**FITS-ALL NO. F5**—Fits full-size panel. Adjustable from 22" to 30" wide and from 75" to 55" high between stiles. Packed 6 to carton.



**NU-WAY**—Comes in silvery-satin aluminum or steel with black enamel finish. Fits 30" and 32", 36", 42" doors. Easily installed on doors or as window guards.



**NU-GARD**—Interlaced ribs form strong protection for screen. 32" fits screen openings from 24" to 28 1/4" and 36" fits openings 28" to 31 1/4". Silvery-satin Alacrome will not rust or tarnish!



### NU-WAY

**NU-WAY PUSH GRILLE**—4" high, made of silvery-satin Alacrome. 32" fits openings from 24" to 26" wide and 36" fits between stiles from 28" to 30". Packed 12 to carton.



### NU-WAY

**NU-WAY DELUXE PUSH GRILLE**—For aluminum or wood doors. 6" high, made for 32" or 36" doors. Silvery-satin finish, will not rust or tarnish! Packed 12 to carton.



### NU-WAY

**NU-WAY SUPER PUSH GRILLE**—Made especially for combination doors—wood or metal—16" high for 21", 23", and 27" insert panels and for regular 32" or 36" doors. Silvery-satin finish. Packed 12 to carton.



**NU-ART ORNAMENTAL ALUMINUM**—Ideal for trellises and other decorative uses. Comes 16" wide and 7" high—easily sawed. Silvery-satin finish will not rust or tarnish. Packed in individual display carton.



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## NU-ART GRILLE ORNAMENTS

Attaches to nearly all screen door grilles. Made of cast aluminum with colorful outlining. Comes in individual envelope with instructions, clamps and bolts.

## Brand New! FITS-ALL GRILLE MONOGRAM

Customer chooses initial or numbers from your stock and mounts on black disc. Packed 2 discs to envelope with screws and fasteners. Attractive, yet inexpensive!

YOUR INITIAL GOES HERE LIKE THIS



MAILBOX



SCREEN DOOR GRILLE



GATES



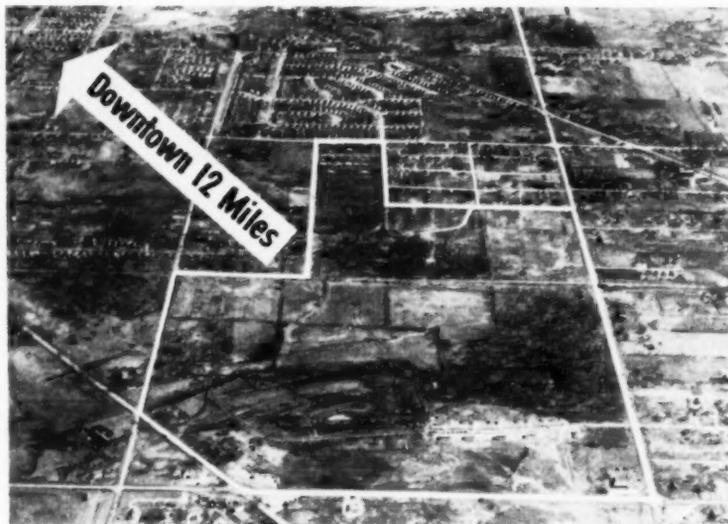
### Milwaukee Builders Pioneer Co-op Site Plan

The Milwaukee Builders' Association has established a new precedent for local associations by its purchase of 200 acres for early co-operative development by 45 members as Milwaukee County's largest subdivision since 1928. The joint venture was said to be an outgrowth of the lack of vacant land for building and the present high costs of site development.

After the tract has been improved with five miles of sewers, water mains and streets (about May 1), on a volume cost-saving basis, the association will sell parcels of lots to individual members at no profit. A section has been reserved for MBA's ninth annual Parade of Homes to display houses built by 50 different members during National Home Week.

The property is in West Allis, approximately 12 miles south of downtown Milwaukee. It was assembled by August Urbanek, association member. Known as Milwaukee Builders' Association Wildwood Estates, it will comprise over 500 dwelling units, a 20-acre shopping center and an elementary school. Residential units will include private houses ranging from about \$13,000 to \$25,000; 33 duplexes and 15 buildings with 12 apartments each.

Phil Herriges, association president, has named Val Zimmermann as gen-



Aerial view of the 200-acre "close-in" area of raw land selected as site of Milwaukee Builders' Association Wildwood Estates. Work has already started

eral chairman of the project as well as the parade. Zimmermann estimates the development cost saving will average from \$750 to \$900 per lot.

While a builder who bought a parade lot had the opportunity to buy additional lots, none was given two contiguous lots, because it was thought that a row of houses exactly alike

would detract from the project's appearance. Before any specific parade sites can be allocated, participants must submit plans to a design committee headed by Clem Schmit.

Eight of the builders had already commenced operations during the first week of March, according to Roy F. Healy, executive vice president.

### '54 Officials of Northeastern Lumbermen



Officers chosen at New York convention of Northeastern Retail Lumbermen Association include: (front, from left) Oliver J. Velling, treasurer; J. Harold Stacey, retiring president; Deyo W. Johnson, president; Arthur Clifford, first vice president; (rear) Paul S. Collier, executive vice president; Frank H. Morin, past president; Jay LeFevre, second vice president; Duncan S. Briggs, fourth vice president; and Joseph E. Hollingworth, third vice president

### Syracuse Builders Buy Tract as Joint Venture

Another ambitious joint building venture is starting in Dewitt, N. Y., a suburb of Syracuse. Members of the Home Builders Association of Greater Syracuse organized the Land Holding Corporation which bought contiguous tracts totalling 90 acres and then put in roads, sewers and water.

Lots were offered to other builders "at the most reasonable price which could be established under the circumstances," reported William F. Topp, executive secretary. Men who owned stock in the corporation paid the same price for lots as non-owning participants. Right to purchase the stock is open to all builder members of the association.

Part of the tract has been reserved for the Syracuse Parade of Homes, Topp said.

## Caller from Cebu



Sergio Osmena Jr., governor of Cebu, Philippines Republic, pauses with his host, Albert Friedman, developer and realty man of Schenectady, N. Y., during housing tour of the city

## Roamin' the North—

Refund checks totaling \$143,629 were received last month by 194 members of Long Island Home Builders Institute participating in its cooperative workman's compensation insurance plan. Charles M. Jaeger, group chairman, pointed out an additional amount saved by the builders, which was set aside in a reserve fund, meant total savings of \$241,255 during the last fiscal year, or 53 per cent of the premiums . . . LIHBI expects another 1,500 capacity turnout for its annual banquet and dance May 1 at New York's Hotel Commodore . . . Hartford County HBA, New England's biggest, honored its organizer, John A. Olson of Worcester, at its recent tenth anniversary meeting. Harold Fenton was chairman . . . Westchester

## Boston Get-Together



Alfred L. Roberts (left), president, Home Builders Association of Greater Boston, and Arthur H. Oman (right), NAHB New England vice president, chat with Edward G. Gavin, editor of *American Builder*, during group's February meeting

(N. Y.) builders Alan Carnoy and Hendrik Wolter have purchased 150 acres near Saugerties, N. Y., for a long-range program of 500 low-cost dwellings . . . HBA of Des Moines had five charter members in 1944; 230 members on its tenth anniversary. Ernest L. Canine, builder for 24 years, is new president . . . C. E. McGranahan is new executive secretary of Home Builders' Association of Mahoning Valley, Youngstown, Ohio . . .

Yates Cook of NAHB made deep effect on Columbus, Ohio, with his



C. A. Mitchell



E. L. Canine

slum clearance story in mid-February. Following week, local papers were filled with editorials, stories, etc., calling for adoption of home builders' rehabilitation plan. Extensive study now under way . . . Charles A. Mitchell, former sales manager of new home construction for Edward Hines Lumber Co. in Chicago, has been upped to general sales manager of the retail division . . . Frank Morone, Long Island builder, has purchased a section of the Saddlewood subdivision in Colonie, near Albany, N. Y., for improvement with 62 homes . . .

## Mapping Drive on Slums



Martin Reitz, chairman, St. Paul Home Builders Association Urban Rehabilitation and Redevelopment Committee, points out trouble spot to Bob Pollard

R. Kaye Hunter, former FHA director at Camden, N. J., has opened architectural offices in that city in partnership with Joseph Praissman . . . New Jersey HBA holding first legislative dinner April 12 at Hotel Hildebrecht, Trenton . . . HBA of Greater St. Louis teamed up with local Producers Council and American Institute of Architects chapters to present a three-day "home builders institute" March 16-19 at St. Louis University. California builder Joseph L. Eichler (Palo Alto) gave one of the principal addresses . . . May 22 is date of annual dinner dance of HBA of Westchester, at Glen Island Casino, New Rochelle, N. Y. . . Spring meeting of National Building Material Distributors Assn., will be May 3-4 at the Statler, Washington, D. C. . . Newest local to affiliate with Ohio HBA is Lake County Builders Assn., which has reelected Jack Silver, president.

## Picking a Model House Winner Proves Task



Quality of entries by Washington University architecture students created tough decision for judges in contest of Home Builders Association of Greater St. Louis. Judges (from left): Samuel Ladd, architect and builder; Lawrence Steffen, chief FHA architect, St. Louis; Charles King, St. Louis AIA president; Al Bockhorst, professor at Washington U.; Earl Bumiller, builder and engineer; Burford L. Pickens, dean, School of Architecture, Washington U.

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screened for the BUY on their minds*

**YOU KNOW** Better Homes and Gardens as one of America's three largest man-woman magazines.

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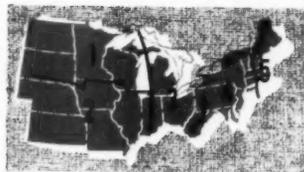
## BH&G BUYological Briefs

- BH&G has led all major circulation magazines since 1947 in editorial lines devoted to building and home repairs.
- BH&G is read by 7 out of every 10 families

- building new homes for their own occupancy.
- BH&G is read by more new home-building families than any other magazine—preferred 5-to-1 over the second ranking magazine.

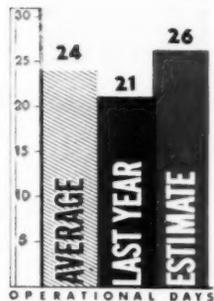
# building weather for April

An exclusive *American Builder* service prepared by Irving P. Krick, Ph.D., and Staff

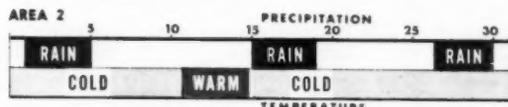


Special climatic studies were made for selected cities in each area to determine AVERAGE and LAST YEAR Operational Days. ESTIMATES are generally applicable to each area. Precipitation and temperatures extreme enough to stop outside work have been forecast as number of NON-operational days. Naturally, inside work may on occasion proceed even through the cold and wet spells shown.

**NORTH:** With the exception of the northeastern region, this area may expect better than usual working weather.



Cold and very wet weather prevailed in Area 1 during April of last year. Many stations recorded temperature averages six or more degrees below normal and precipitation totals in excess of 150 percent. For this coming April, warmer than normal weather is in prospect. Precipitation amounts are expected to range from about normal in eastern North Dakota to less than normal elsewhere. Outdoor construction weather will be better than normal or that of last April.



Better than average working weather is anticipated in the central Plains region of the United States during April, 1954. Temperatures for the month are expected to average above normal over most of the area, and rainfall totals are not likely to exceed the normal value for April. Thus, the number of operational days will be greater than the average and about the same as that of last April when rainfall totals, with the exception of Iowa, were below normal.



Krick

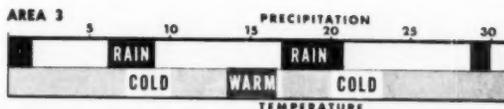
## The Case of the Flapping Front

You've no doubt seen your TV weather man describe fronts as the boundary between warm and cold air masses. Because most weather fronts move in a regular manner from west to east, forecasting is a fairly straight-forward job for the professional weather man.

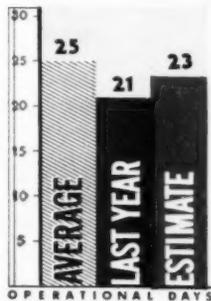
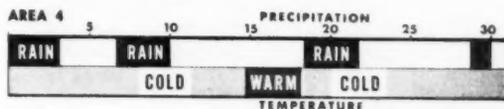
The exception is the "flapping front," designed to grey forecasters' hair overnight.

When a "flapping front" occurs, temperature fluctuations as much as 30 degrees have been noted . . . not just once, but as often as six times in a 24 hour period! Most of the time, it's observed along the eastern slope of the Rockies. This is how it happens:

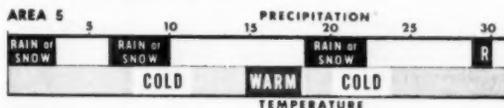
APRIL 1954



Near to slightly below normal temperatures will be observed in Great Lakes area in April, 1954. Rainfall in Michigan and eastern Ohio will be about normal while elsewhere in Area 3, slightly drier conditions are in prospect. Outdoor construction weather, therefore, will be slightly better than usual and considerably better than in April, 1953. Last April, cold, wet weather occurred in Michigan; cold and slightly dry conditions in the balance of the area.



The weather during April, 1954, in Area 4 is expected to be characterized by relatively unfavorable working conditions. Temperatures averaging about two to three degrees below normal are in prospect for the month. Frequent intervals of stormy and unsettled weather are likely to occur, resulting in rainfall totals in excess of the April normal. Thus, the number of days free of restrictions due to the weather will be less than the average.



April, 1953 was warm and wet, as compared to normal, in the New England area. For April, 1954, the weather is expected to be somewhat colder than usual with above normal rainfall amounts likely to be recorded throughout all six states. The total number of operational days should be below the April average and also that observed last April. Principal weather restrictions during this month will be rainfall amounts in excess of the critical values.

Timing of weather events is indicative of trends. Don't expect precipitation on every day of the period indicated.

A cold air outbreak pushes across the Canadian border into the northern Great Plains states. Usually the tendency would be for this mass to move off to the east (Minneapolis, Milwaukee, Detroit), but if its bulk is great, spreading takes place (like poured pancake batter) and the apparent movement is to the west (Rapid City, Denver).

Along the western edge of the cold air, the thermometer will plummet. Then, if the mass recedes east, the mercury will soar. If the cold air outpouring continues at its source, the cold air boundary moves back west again, and down drops the temperature. This can go on for days, but fortunately the unorthodox performance of the "flapping front" is relatively infrequent.

The next time you see a grey headed weather man, remember what may have caused it!

# A HIT AT THE HOME BUILDERS SHOW

## New "SPACE-MAID" BATH ROOM STORAGE CABINET

and KNOCKED-DOWN METAL DOOR and WINDOW FRAMES



Above: "Space-Maid" Bathroom Storage Cabinet on display at Builders Manufacturing Company booth during National Home Builders Show at Chicago, January 17-21, 1954.

Right: Close-up view of "Space-Maid" cabinet showing ample room for storage of bathroom supplies.

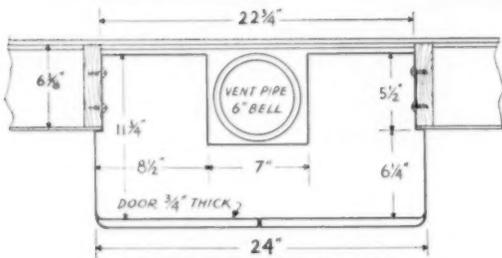
Every bathroom needs more storage space. Install "SPACE-MAID" at low cost and make your houses easier to sell at a more profitable price. "SPACE-MAID" extends into the wall, around the standpipe above the bathroom commode. (See plan below.) Total inside depth is 11 3/4 inches by 24 inches wide. Plenty of room for towels, linens, toilet tissue, soaps, large medicine bottles, etc.

"SPACE-MAID" is the "something extra" and the "something new" that clinches your sales in 1954. Write or wire for prices and complete information.



(Patents Pending)

### CABINET IS IDEAL FOR APARTMENT HOUSES



Rough opening size of "SPACE MAID" Cabinet 23 inches by 29 inches.

### TWO MODELS

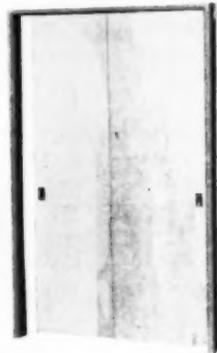
Model "A"—For new construction, 11 3/4" x 24"

Model "B"—For existing construction, 8" x 24"  
White baked enamel finish

### New and Different

(Patents Pending)

SAVE \$50  
A HOUSE



BUILDERS knocked down steel frame for sliding doors.



BUILDERS knocked down metal window frames.

BUILDERS knocked down standard steel door frames.



### KNOCKED-DOWN DOOR AND WINDOW FRAMES

A knocked down metal window frame absolutely waterproof in all corners and NEVER BEFORE available in all three corrosion-resistant materials—GALVANITE STEEL, ALUMINUM and STAINLESS STEEL. STANDARD PRODUCT—PLAIN STEEL.

A steel knocked down door frame so easy to assemble and actually more rigid than a tabbed frame with welded corners. Beautiful new curved line design.

A wedged-head knocked down steel frame for sliding doors, complete with hardware for 1 3/8" and 3/4" doors. Over-head easy rolling track. Frame matches standard BUILDERS wedged-head door frames.

Whatever your corrosion problem may be, there is a BUILDERS FRAME for you.

### MAIL THIS COUPON

BUILDERS MANUFACTURING COMPANY  
1514 Brown-Marx Building, Birmingham, Alabama

Yes, I want details. Send folder illustrating your "Space-Maid" cabinet and catalog describing your knocked-down metal window and door frames. Quote prices on following quantity of—

Door Frames .....  Window Frames .....  Cabinets .....  
 FOB ..... Distributor  .....

Name ..... Builder  .....

Address ..... Dealer  .....

# Only 7" Saw to Rip 8 feet in 7.5 seconds!

**New Porter-Cable  
"Contractor's Special"**  
Packs More Power, Far More Speed —  
Than Any Leading Saw of Like Size Tested!



Model 115  
2 3/4" Cut

SEE THE NEW 7-in.  
"Contractor's Special" at your  
Porter-Cable dealer's. Or write for name of dealer  
and full information. PORTER-CABLE MACHINE  
CO., 1006 N. Salina St., Syracuse 8, N. Y.

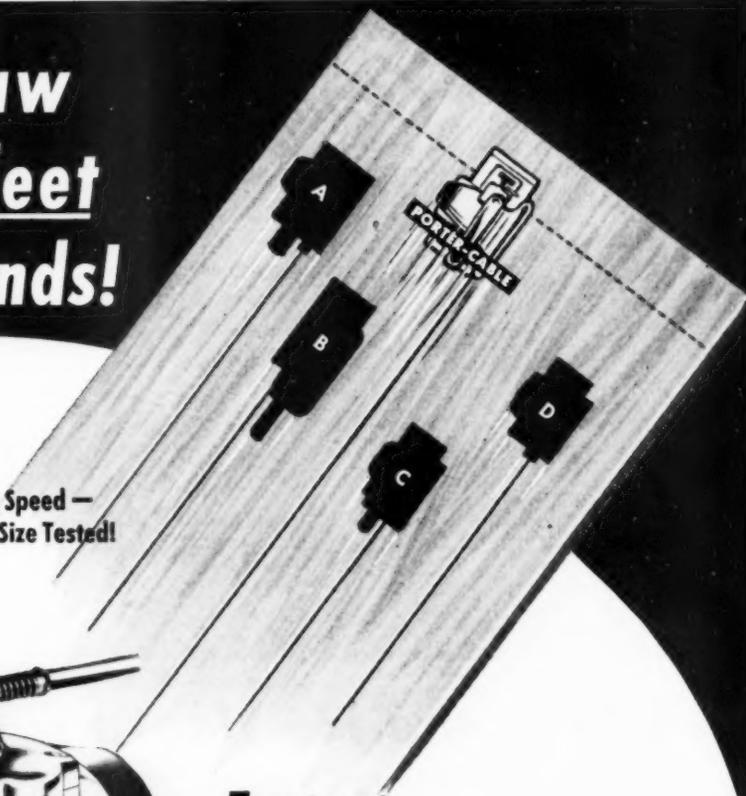
**Porter-Cable**

*Quality Electric Tools*

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FOR FULL  
DETAILS

Manufacturers of SPEEDMATIC and GUILD Electric Tools

APRIL 1954



## Fastest . . . across the board!

In a recent series of on-the-site ripping tests comparing leading 7-inch saws, Porter-Cable's new "Contractor's Special" turned in this amazing speed record . . .

- 18.6% faster than Saw A
- 41.7% faster than Saw B
- 51.6% faster than Saw C
- 38.7% faster than Saw D

Regardless of the depth of cut or type of wood used, the new "Contractor's Special" in every instance finished the cut far faster than any of its competitors! For example, on 3/4" Fir Plywood, the "Contractor's Special" averaged 7.5 seconds per 8-foot cut!

**PORTER-CABLE Machine Co.**  
2004 N. Salina Street Syracuse 8, N. Y.  
(In Canada send to: Strongridge, Ltd., London, Ont.)

Please send complete specifications and performance data on new 7" "Contractor's Special" . . . also name of nearest dealer.

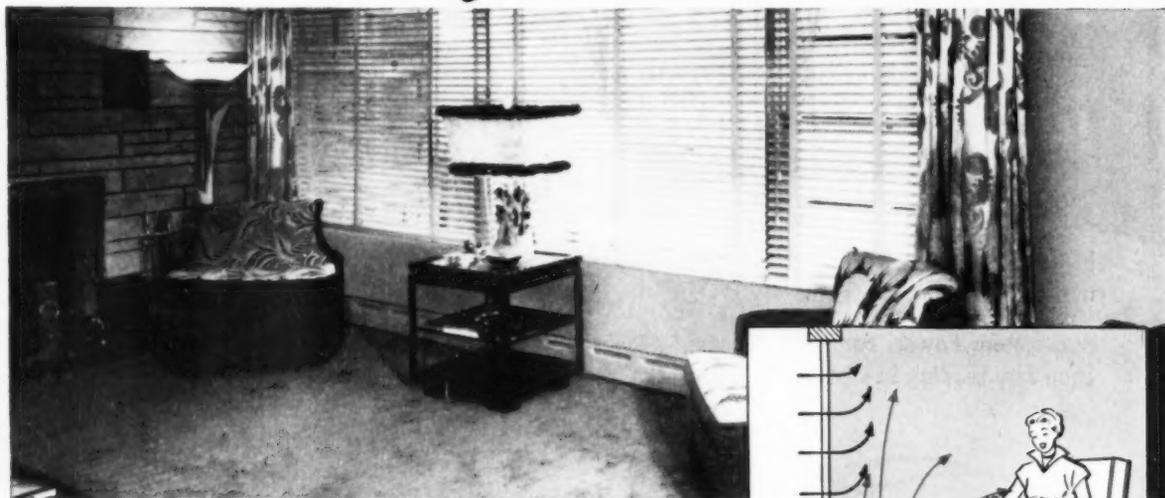
Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

Today's home builders demand both

# Comfort and Beauty



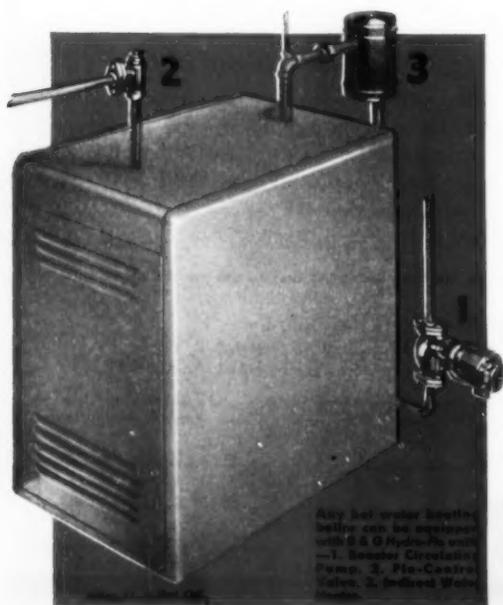
## B & G Hydro-Flo Heating

with baseboards or radiant panels provides overall sunny warmth . . . permits full decorative freedom

*All space livable—no cold drafts*

Homes with large glass areas present a special heating problem—easily solved with *radiant B & G Hydro-Flo Heating*. This forced hot water system permits proper placement of the heating units to protect against icy downdrafts from the windows and to keep floors warm.

B & G *Hydro-Flo Heating* provides not only a better *quality* of heat but better *controlled* heat as well. Every change in the weather is automatically met with a corresponding change in the heat supply. No fuel-wasting overheating—but always plenty of heat when the thermometer hits bottom.



Any hot water heating system can be installed with B & G Hydro-Flo with—1. Booster Circulator Pump, 2. Flow-Control Valve, 3. Indirect Water Heater.

### All year 'round domestic hot water

An abundant supply of domestic hot water is a genuine necessity in the modern home. The Water Heater of a *Hydro-Flo System* provides an ever-ready supply, 24 hours a day, winter and summer . . . at amazingly low cost. Plenty for automatic washers, bath, showers and every household use.



### Snow melting an optional feature

Pipe coils can be installed under the sidewalks and circulated with hot water from a heat exchanger connected to the boiler. Snow is melted as fast as it falls . . . ending a back-breaking job. A snow melting installation can be made when the original heating system is installed or at any time thereafter.



## BELL & GOSSETT C O M P A N Y

Dept. DJ-11, Morton Grove, Illinois

Canadian Licensees: S. A. Armstrong Ltd., 1400 O'Connor Drive, Toronto

AMERICAN BUILDER

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Select Their ...

# NEW HOME

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and DEALERS

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Typical of the many beautiful plans shown in the above books, is this popular 3 bedroom ranch design.

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Name .....  
Address .....  
City ..... State .....

**new Long Island  
split-level has  
L-shaped plan**



**L**-SHAPED first and third levels which wrap around the main living area have been introduced in split-level design by J. Lewis Mayers, New York builder and architect, at Tarleton Manor, a group of 112 houses in Massapequa, L. I.

Basically a tri-level home with a front to rear split, this design used balloon-type framing on 1x6 ribbons, making it possible to frame the entire split-level in one operation.

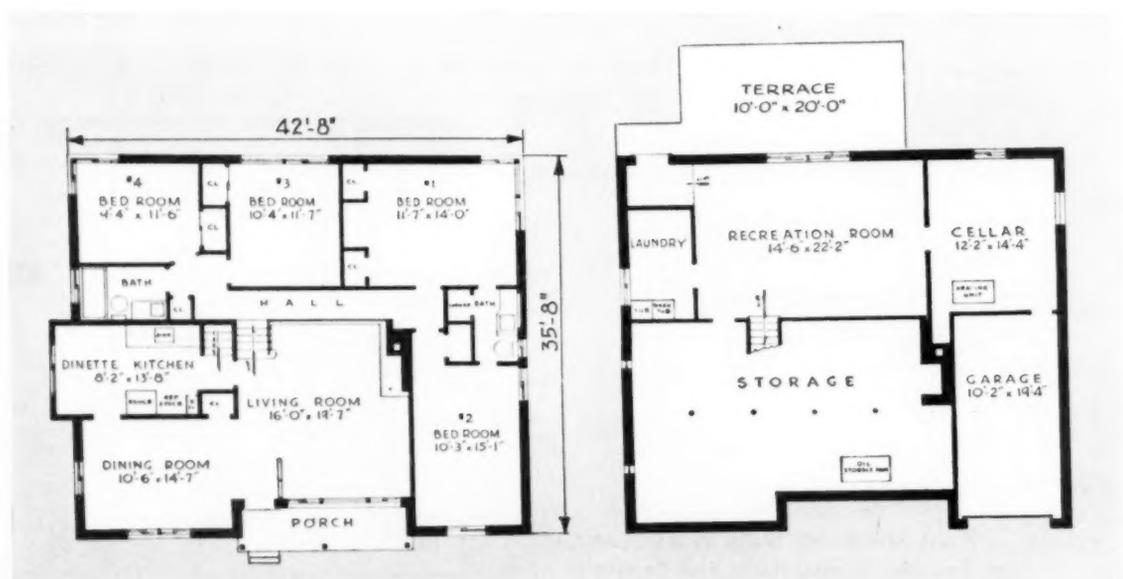
The layout provides for four bed-

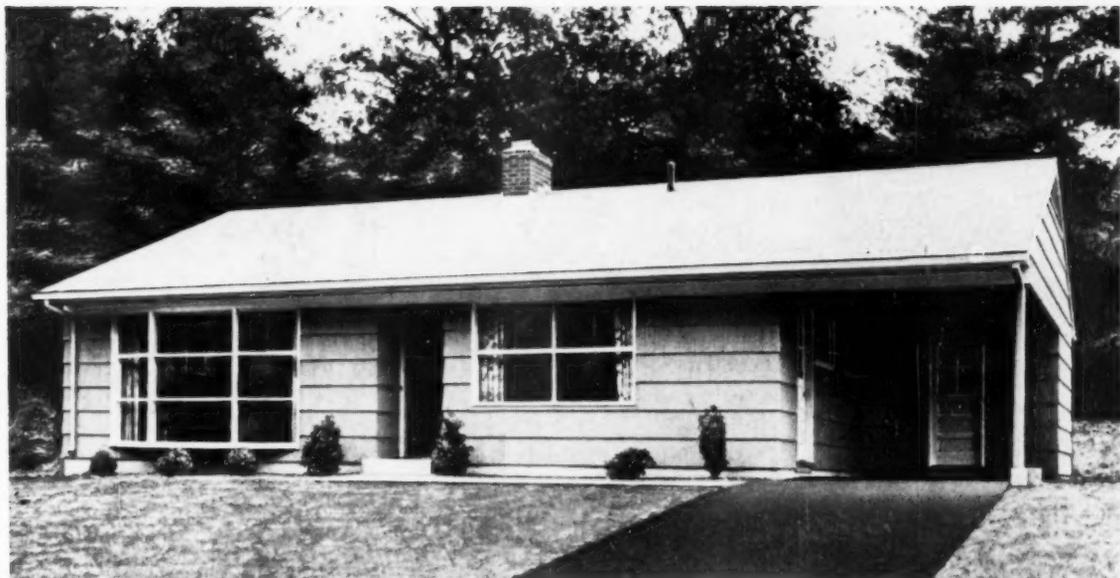
rooms on one floor, with a bathroom for each pair of bedrooms. A gal-leried hall with wallpaper mural looks down on a cathedral-type living room. The latter has a 12-foot ceiling, corner fireplace and wide window area opening onto covered front porch.

Largest single space in the house is 22-foot recreation room, or second living room, which spreads across rear of house only a step below grade. Laundry room on this lower

level, includes service door, is diagonally under kitchen and easily reached via a half-flight of stairs. Garage and furnace room for hot water system are also on this level.

House has 1,520 square feet, plus additional 640 square feet for storage in basement crawl space and attic. With 75x100 plot, it is priced at \$19,625, including electric range and ventilating fan. Mayers has arranged to obtain other appliances for buyers adding cost to mortgage.





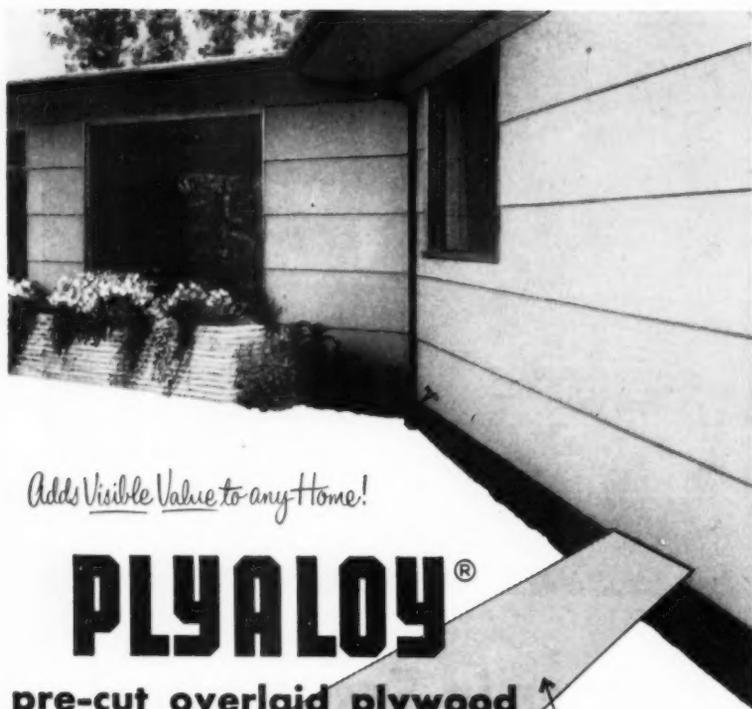
## open-plan rancher in East Hartford



**T**HE NEVADA is one of the most popular ranch styles using the same floor plan at Country Modern Estates in East Hartford, Connecticut. Designed and built by the Green Manor Estates organization of Manchester, Connecticut, as an example of open planning in lower-price range, it provides 1,064 square feet of livable space. With carport and a 10x10 storage room, it sells for \$12,199.

Two-way fireplace and open shelf cabinets back up against the refrigerator and a York-Shipley porcelain-finished furnace unit to act as divider between living room, kitchen and rear hall leading to bedrooms. A deep, three-section bow window tends to increase the feeling of spaciousness in the living room.

Slab-built, the house is radiant-heated, has asphalt tile floors, wide closets with floor to ceiling sliding doors, a ceramic tile bathroom with Briggs fixtures, kitchen with Tracv stainless steel sink and wood cabinets with fluted glass sliding doors. All interior walls are treated with multi-color Plextone paint. Lighting fixtures are recessed in ceiling.



Adds Visible Value to any Home!

# PLYALOY<sup>®</sup>

pre-cut overlaid plywood

# SIDING

Fused resin-fiber surface  
Exterior-Type Fir Plywood  
(EXT-DFFPA)

Product of the Plywood Industry

Combines the economy, strength, rigidity and workability of DFFPA-Inspected Exterior-type fir plywood—the durability, paintability and lasting beauty of a tough, smooth resin-fiber surface. Edge beveled for drip.

**Fused Resin-Fiber Overlaid Exterior Fir Plywood Siding,  
Pre-cut to 12", 16" and 24" widths; Packaged for Protection**



HERE's everything you want in a siding material. Plyaloy siding saves on-job time. It comes pre-cut—packaged "by the square" for convenience and protection.

Plyaloy siding is easy to install, has one of the finest paint surfaces you ever saw! Gives maximum protection against grain-raise or checking. All panels are standard 8' lengths. Ends are square; lower edge is beveled for drip. No trimming required.

For beauty that attracts buyers, durability that keeps them sold—specify PLYALOY pre-cut siding.

Write for DATA on this superior new siding material: (Plyaloy also available in standard plywood sizes.) St. Paul and Tacoma Lumber Company, Dept. AB, Tacoma 2, Washington.



ANOTHER MEMBER OF THE FAMOUS TREE LIFE FOREST PRODUCTS FAMILY



Courtesy of Masonite Corporation

Paint may be applied by brushing, spraying, dipping or by roller

## how to paint "peg-board" panels

This material will take oil, water emulsion or bituminous paint, enamel, stain, lacquer, shellac, varnish, penetrating sealer, wax, synthetics and various special finishes.

To prepare the panels for painting, surfaces should be clean and dry. Warm water and mild soap can be used to remove dirt; carbon tetrachloride or naphtha to remove grease.

Primer may be clear or pigmented, but it must be suitable both for hardboard and for the coats to be applied later. For most painting or enameling work, a three-coat application is recommended.

For tinting "Peg-Board," these suggestions are offered: Brush on a paint of the desired color and wipe immediately with a clean cloth. Other materials which may be used are a non-grain-raising stain covered by a clear top coat of varnish or lacquer, color-in-oil thinned with turpentine, and a penetrating sealer with a dry pigment or color-in-oil added. Depending on the finishing material and the effect desired, application can be made by brushing, spraying, wiping, dipping or with a roller.

Special "Leatherwood" textured panels may be finished in solid or plain colors. An interesting effect can be obtained with a tone-on-tone finish which is a combination of any two colors. It consists of three coats: (1) a primer or sealer suitable for use with the intended second coat; (2) interior paint, enamel or lacquer of the desired over-all color; (3) glazing liquid with pigment added, or a toner.

The third coat, which is the color left in the depressions is brushed or wiped over the surface. Before dry, it is removed by wiping the surface lightly with a clean cloth.

AMERICAN BUILDER



## BATHING BEAUTY...MADE OF CONCRETE

Attractive lines and a pleasant appearance are natural characteristics of swimming pools made of reinforced concrete. Such construction means lower costs and easier installation for home owners . . . represents a sound, long-term investment for operators of large-size pools.

Swimming pools constructed with reinforced concrete have these advantages: Easily shaped into unusual forms . . . Seamless, watertight construction . . . Smooth, uniform surface for easy

maintenance and sanitation . . . Long-lasting strength and durability. Concrete reinforced with Clinton Welded Wire Fabric provides these benefits. Clinton Welded Wire Fabric is made of strong steel members closely and uniformly spaced for proper load distribution and added strength. It meets all A.S.T.M. requirements and is available in proper sizes and weights for all reinforcing requirements.

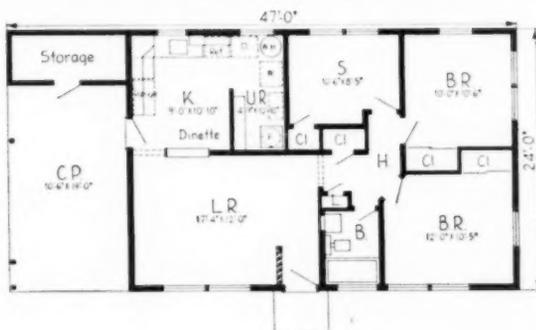
THE COLORADO FUEL AND IRON CORPORATION • Denver and Oakland  
WICKWIRE SPENCER STEEL DIVISION • New York, New York





## basement favored with this Omaha project house

**W**ILSON & JOHNSON Company planned to build mostly slab houses in their Robin Hill Addition at Omaha, Nebraska. After starting 40 units and with sales well in advance of construction, they found that 70 per cent of the buyers wanted basements. Slab model was offered for \$11,750, basement at \$12,950. All units are equipped to take air conditioning for an added \$985. Carports can be enclosed as garages for \$400. Homes have Thermopane windows, Lennox gas furnace, Youngstown cabinets, General Electric garbage disposers. Buyers get choice of interior and exterior colors, including five styles of Johns-Manville Colorbestos siding.



**AMERICAN  
BUILDER**  
*Selected Homes* **NORTH**

## a successful tract house in Dayton

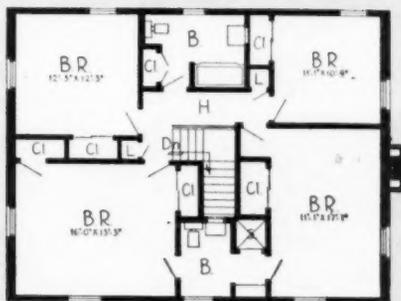
**W**ENZLER BROS. Construction Company is selling this basic house at \$17,900 in Dayton, Ohio, including a \$2,500 lot. Buyer has a choice of several plans, with or without basement, also of decoration. Houses have Janitrol automatic heating unit, ceramic tile bathrooms.



## Detroit area offers new expression for 4-bedroom Colonials



Nelson rates the following as "must" items for a house of this type: ample storage facilities in the kitchen, an adequate eating space located next to a kitchen window, a dining room with minimum dimensions of 12 by 13 feet. Main floor plan (below) shows how "Lauderdale Room" replaces the usual porch or terrace



SECOND FLOOR PLAN

Second floor hall ceiling is framed and wired for attic exhaust fan, which can be installed for \$225 extra

THE Percy M. Nelson Company of Birmingham, Michigan has specialized in quality-built four-bedroom Colonials in the Bloomfield-Birmingham area near Detroit. Location is paramount for a house of its type. This one, in the Bloomfield Village subdivision, sold for \$40,700 including a \$4,000 lot. Architect was Victor J. Basso of Detroit.

Nelson gives this time-honored plan sparkle and newness by including a "Lauderdale Room," a general activities center off the living room, which replaces a porch. It has an Andersen casement Windowall glazed with Twindow, two lights of which open. Walls are paneled in knotty white pine, have a bleached stain and varnish finish.

Buyers of such a home are generally of conservative taste and have period furniture, according to the builder's experience. The Lauderdale Room gives them a chance to branch out into new contemporary furnishings without having to discard their traditional pieces, which are placed in the living room. This idea has real sales appeal.

The house has a Mueller Climatrol gas furnace. All basement walls are painted and the laundry is a separate basement room. Aluminum combination storm windows and screens; combination doors are of white pine. Doors are 1 3/4-inch birch slab. Large closet openings have bypassing doors on Sterling track. Interior locksets are Dexter polished brass, three butts on hinged doors.

**LIGHTER, BRIGHTER  
HOMES**  
with  
**SHATTERPROOF**

**RESOLITE**

**TRANSLUCENT PANELS**

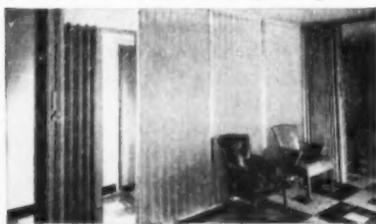


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  - PARTITIONS
  - DECORATING

Fiberglas-reinforced panels are today's most talked about building material! What else transmits light, has the strength of metal, yet weighs only eight ounces per sq. ft.? Composed of two-ounce Fiber-glas mat, Resolite is the top-grade translucent structural panel.



RESOLITE, enthusiastically accepted as the finest industrial skylight, is becoming increasingly popular as a terrace or patio cover, awning, interior partition and decorative glazing.



RESOLITE is popular because it is shatterproof. Because it is quickly and easily installed with ordinary tools. Because it won't crack, rot, rust, warp or sag. RESOLITE improves transmitted light by softly diffusing harsh sun rays. It is available in eight beautiful colors and semi-clear.

For Complete Information  
and Free Literature Write:

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Distributors, Principal Cities, U.S. and Canada

**how to build 4-Bedroom houses  
for UNDER \$11,500**

Do not start with a fixed plan which you send out for bids.

Start with a 2-bedroom model which you know you can build and sell for a certain figure.

Then call in your subcontractors and tell them that you want to enlarge the 2-bedroom plan. Ask them what it will cost to add the extra footages and features you have in mind. Get them to sit down with you

and figure actual costs, on the spot.

This way, the larger plan will simply be an extension of the 2-bedroom base, and you should find that final figures are at a minimum that will not be achieved otherwise.

The set of plans shown here demonstrates what has been accomplished by this method as used by Henry C. Cox and Affiliated Companies in Garden Grove, California.



# Home Builders' Guide to Profits with New 1954 Westinghouse Appliances

**Mr. Builder:** Here's a concise, handy reference of appliances for house merchandising. There's a model and size for every home. Space requirement charts included for quick checking.



**MODEL HG-4 (not shown)**  
4.0 cu. ft. capacity  
Ideal for under-counter installations

**MODEL HG-8 (shown at left)**  
7.8 cu. ft. capacity  
24" Wide Cabinet  
● Full-Width Freezer  
● Frozen Storage Tray  
● Lift-Out Half Shelf

**MODEL HG-6 (not shown)**  
6.2 cu. ft. capacity  
24" Wide Cabinet  
Same features as HG-8 (above) plus 2 Lift-Out Half Shelves

**MODEL DG-8 (shown at right)**  
8.0 cu. ft. capacity  
24" Wide Cabinet  
● Full-Width Vegetable Humidrawer  
● Shelves-In-The-Door  
● Full-Width Freezer  
● Frozen Storage Tray



**MODEL HSG-8 (shown at left)**  
8.0 cu. ft. capacity  
24" Wide Cabinet  
● Shelves-In-The-Door  
● Full-Width Freezer  
● Frozen Storage Tray



**MODEL DG-9 (shown at right)**  
8.8 cu. ft. capacity  
28" Wide Cabinet  
● Full-Width Vegetable Humidrawer  
● Shelves-In-The-Door  
● Full-Width Freezer  
● Frozen Storage Tray  
● Self-Aligning Door Latch



## WESTINGHOUSE REFRIGERATORS

Designed with the home builder in mind, these Refrigerators come in three standard widths of 24", 28" and 32". Eliminate fractional dimensions in your planning. Flush-type hinges available on certain 24" models where door swing must be held to a minimum. Choice of right or left-hand door opening on all models. Every model (except HG-4) has a big, full-width freezer that women prefer; striking arctic blue interior trim, and adjustable leveling glides. All have the famed Economizer Mechanism with proved 24-year record of low-cost operation and maintenance. Popular Frost-Free\* models defrost themselves and dispose of defrost water automatically.

## WESTINGHOUSE HOME FREEZERS

Leading builders today are keeping pace with homemaking trends by providing space for home freezers in their new homes. Westinghouse Home Freezers are ideal for kitchen installation because of their upright design. There's no waste of floor space, wall space, or sacrifice of cabinet arrangement. Exterior styling matches that of the Westinghouse Refrigerator. Available in 3 models:

UFE-85 (8.3 cu. ft. capacity), UFE-120 (12.0 cu. ft. capacity), UFE-180 (18.0 cu. ft. capacity).

REFRIGERATOR SPACE REQUIREMENTS						
(All models available with either left or right-hand door opening)						
Model	Height	Width	Depth Including Hardware	Depth Door Fully Open	Width 75° Door Opening	Shelf Area Sq. Ft.
HG-4	34 1/2"	24"	27"	47 1/2"	24"	8.0
HG-6	50"	24"	28 3/4"	48 7/8"	26 1/8"	11.8
HG-8	56 1/2"	24"	29 1/2"	48 7/8"	26 1/2"	13.6
HSG-8	56 1/2"	24"	29 1/2"	48 7/8"	26 1/2"	13.6
DG-8	56 1/2"	24"	29 1/2"	48 7/8"	26 1/2"	13.6
DG-9	57 1/2"	28"	29 7/8"	52 7/8"	30 1/2"	15.6
FG-84	57 1/2"	28"	29 7/8"	52 7/8"	30 1/2"	14.2
DFG-87	57 1/2"	28"	29 7/8"	52 7/8"	30 1/2"	14.7
DFG-105	59 1/2"	32"	28 1/2"	56 7/8"	34 1/2"	17.6
DFG-123	65 1/2"	32"	28 1/2"	56 7/8"	34 1/2"	19.4
TFG-116	65 1/2"	32"	29 7/8"	56 7/8"	34 1/2"	19.5

HOME FREEZER SPACE REQUIREMENTS						
(All models available with either left or right-hand door opening)						
Model	Height	Width	Depth	Depth	Width	Shelf Area Sq. Ft.
UFE-85	57 1/2"	28"	29 7/8"	52 7/8"	31 1/2"	11.4
UFE-120	65 1/2"	32"	29 7/8"	56 7/8"	35 1/2"	13.7
UFE-180	67 7/8"	36"	31"	62 5/8"	38 1/8"	18.6

## FROST-FREE AUTOMATIC DEFROSTING MODELS

**FG-84 8.4 cu. ft. capacity**  
Same features as Model DG-9 (shown at left) with addition of Frost-Free Automatic Defrosting.

**DFG-87 8.7 cu. ft. capacity**  
De Luxe Frost-Free with all features of FG-84 plus Meat Keeper, Roll-Out Shelf, Fruit Bin, and Butter Keeper.

**DFG-105 10.5 cu. ft. capacity**  
De Luxe Frost-Free with all features of DFG-87 plus Cheese File, Snack Keeper, Egg Keepers, two Vegetable Humidrawers, and Magic Opener for door.

**DFG-123 12.3 cu. ft. capacity**  
De Luxe Frost-Free with all features of DFG-105 plus exclusive Beverage Keeper, and two Roll-Out Shelves.

**TFG-116 11.6 cu. ft. capacity**  
De Luxe Frost-Free with separate 2.2 cu. ft. Freezer. Refrigerator has Meat-Keeper, two Roll-Out Shelves, two Vegetable Humidrawers, Egg Keepers, Butter Keeper, Snack Keeper, Cheese File, and Fruit Bin.

\*Trade Mark: U. S. Patent Issued, Nos. 2,459,173 and 2,324,309.

YOU CAN BE SURE... IF IT'S  
Westinghouse

FOR EASIER SELLING

INSTALL

### WESTINGHOUSE ELECTRIC DISHWASHERS

Here is a Dishwasher styled to combine beauty with utility. The front-opening, top-loading design offers unbroken work surface. There's more capacity than any other make, yet it's only 24" wide.

Available in five models: 48" units, in

Dishwasher-Sink combination and without sink top and fixtures for custom installation; 24" Cabinet model, 24" Under-Counter model, and Portable model.

Dishwasher connects to the sink drain line. Eliminates need for separate drain line and trap. Operates on 110-120 volts, a-c.



DWB-480SC



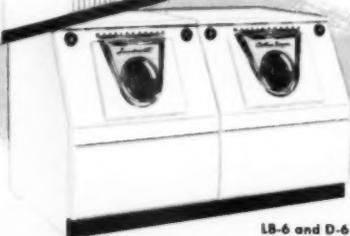
A-1B



LS-7 and DS-7



RL-1A



LB-6 and D-6

### DISHWASHER SPACE REQUIREMENTS

Model	Width	Height	Depth Including Hardware	Depth Drawer Open
Under-Counter, DWB-13	24"	34 1/2"	26 1/8"	42 1/2"
Cabinet, DWB-24	24"	36"	26 1/8"	42 1/2"
Portable, DW-24P	24"	36"	26 1/8"	42 1/2"
Dishwasher-Sink, DWB-480SC**	48"	36"	26 1/8"	42 1/2"

\*Add 4" for backsplash.

\*\*Available less top, sink, and sink fixtures. Order Model DWB-4850.

### WESTINGHOUSE FOOD WASTE DISPOSER

New in every way and amazingly low in price, this appliance adds "buy appeal" far in excess of actual cost. This high quality Westinghouse Disposer shreds all food waste, even bones, and washes it down the drain and out of the house. Performs equally well when connected to city sewer lines or septic tanks.

Easily and quickly installed in cast iron, formed metal or enameled sheet steel sinks with 3 1/2" to 5 1/2" drain openings. Requires only 7/8" between bottom of sink bowl and center line of drain line in wall. Plugged opening permits Westinghouse Dishwasher to drain through Disposer. Operates on 110 volts, a-c.

A-1B Dimensions: 8 7/16" wide x 10 7/8" deep x 13 3/16" high.

### WESTINGHOUSE LAUNDRY EQUIPMENT

People like the convenience these famous appliances offer, especially when the house is small and washing and drying facilities limited. You can provide a complete laundry in only 5 ft. 3 in. of floor space, regardless of models selected.

#### LS-7 LAUNDROMAT\*

A completely automatic Westinghouse Laundromat, at a new low price. Features an extra large door that forms a handy loading shelf; slanting front for easy loading; flexible Control Dial that permits starting, stopping or repeating any part of the washing or rinsing cycles. Operates on 110/120 volts, a-c.

#### DS-7 CLOTHES DRYER

It's a low-priced matching twin to the LS-7 Laundromat. Flexible Control Dial permits completely automatic operation. Safe for miracle fabrics. May be vented from side or rear. Can be converted from 115/230-volt to 115-volt operation.

#### LB-6 LAUNDROMAT

This model has all the basic features of the lower-priced Model LS-7 plus greater eye appeal and two tremendously popular con-

sumer features: the Weigh-to-Save Door, which measures the weight of the load; and the Water Saver which controls the amount of water used, saving water and soap. Operates on 110/120 volts, a-c.

#### D-6 CLOTHES DRYER

A "twin" to the LB-6 Laundromat. It has greater eye appeal than the lower priced DS-7 Clothes Dryer, the exclusive "Dry Dial", Pop-Up Lint Trap, plus the added feature of the Singing Signal that chimes when the Dryer shuts off. Can be vented from side or rear. Can be converted from 115/230-volt to 115-volt operation.

#### RL-1A LAUNDROMAT

The bolt-down, economy version of the LS-7 operates in exactly the same manner and does the same fine washing job. Does not have the Weigh-to-Save Door or Water Saver. Operates on 115 volts, a-c.

### LAUNDROMAT AND CLOTHES DRYER SPACE REQUIREMENTS

Model	Width	Height	Depth	Depth With Door Open
LS-7	31"	36 1/2"	27 1/4"	42 1/4"
LB-6	31"	36 1/2"	27 1/4"	42 1/4"
RL-1A	27 3/4"	35 3/4"	23 3/4"	30 3/4"
DS-7	31"	36 1/2"	27 1/16"	42 7/16"
D-6	31"	36 1/2"	27 1/16"	42 7/16"

\*Removal of plastic fill pipe permits installation under standard-height counters.  
\*\*Allow a minimum of 3" from back of appliance to wall for plumbing connections. LB-6 and LS-7 can be flush mounted by use of a special bracket available as an accessory.



DWB-13

# Westinghouse Appliances

## Quality Electric Appliances for the Home

### WESTINGHOUSE SPEED-ELECTRIC RANGES

The impressive list of features that were first introduced by Westinghouse in the electric range industry have made these ranges hot promotional items for builders, year after year. To mention a few: FIRST with Super Corox® Unit, a Surface Unit that gets hot instantly, RED HOT in 30 seconds; FIRST with a Miracle Sealed Oven that assures perfect baking results every time in any rack position; FIRST with the exclusive Electronic Unit . . . the world's first completely automatic surface unit.

The new 1954 Westinghouse Speed-Electric Ranges lead in features and styling. There is a model and size for every need. All are simple to install, requiring only the usual 230-volt, a-c range circuit.

#### COMMANDER MODEL BG

This deluxe Range has the exclusive Electronic Unit that remembers your cooking even if you forget. It's so positive in temperature control that even if the pan boils dry FOODS CAN'T BURN. Also has the Super Corox Unit that gets RED HOT in 30 seconds . . . Plug-in Surface Units to speed cleanup . . . a Giant Miracle Sealed Oven that bakes perfectly in any rack position . . . beautiful Color-Glance Controls . . . a Two-Level Speed Cooker for fast French frying or use as a fourth surface unit . . . Built-in Oven Timer, three large aluminum Storage Drawers — including a Warmer Drawer — on nylon rollers.

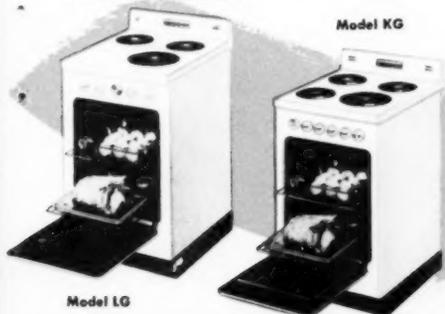
#### CHAMPION MODEL DG

Beautifully styled. Has a Super Corox Unit, Giant Miracle Sealed Oven, Plug-in Surface Units, Two-Level Speed Cooker, Color-Glance Controls and Electric Minute Timer. Also has Automatic Appliance Outlet, Built-in Clock and Automatic Oven Timer and three large aluminum Storage Drawers on nylon rollers.

#### RANGE SPACE REQUIREMENTS

Model	Width	Height*	Depth With Door Open
BG	40"	48 $\frac{7}{8}$ "	42 $\frac{1}{2}$ "
DG	40"	44 $\frac{1}{8}$ "	43"
EG	40"	44 $\frac{1}{8}$ "	42 $\frac{1}{2}$ "
FG	30"	46 $\frac{1}{4}$ "	44 $\frac{1}{4}$ "
GG	30"	46 $\frac{1}{4}$ "	44 $\frac{1}{4}$ "
HG	40"	43 $\frac{7}{8}$ "	42 $\frac{1}{2}$ "
KG	21"	40"	43 $\frac{3}{4}$ "
LG	21"	40"	43 $\frac{3}{4}$ "

\*To top of backsplasher.



#### COMMODORE MODEL EG

A completely automatic Range with famous Miracle Sealed Oven and Built-in Clock and Timer. Has three fast Corox® Units plus 6-qt. Econo-Cooker . . . Tel-A-Glance Controls, Automatic Appliance Outlet and three large Storage Drawers on nylon rollers.

#### IMPERIAL 30 MODEL FG

A spacesaving Range with deluxe features that takes only 30 inches of floor space. Features a King Size Miracle Sealed Oven with Look-in Door and Oven Light. Has Super Corox Unit plus three other speedy Corox Surface Units, Built-in Clock and Oven Timer, Automatic Appliance Outlet, Electric Minute Timer and one extra-large Storage Drawer on nylon rollers.

#### "THIRTY" MODEL GG

This new spacesaving model is also only 30" wide. Has four fast-heating Corox Surface Units and King Size Miracle Sealed Oven, Tel-A-Glance Controls, Appliance Outlet and extra-large Storage Drawer.

#### MODEL HG

Here's a full-sized electric Range with a True-Temp Oven, four fast Corox Units, Tel-A-Glance Controls plus built-in Appliance Outlet. Big Storage Drawer has space for everyday pots and pans.

#### CORONET MODELS KG and LG

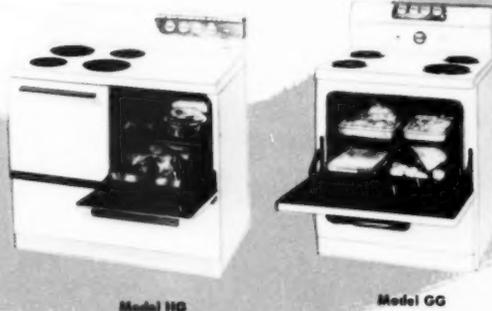
##### Apartment House Models

KG only 21" wide. Has four full-sized Corox Surface Units, large True-Temp Oven insulated on all six sides, Appliance Outlet and Titanium Porcelain Range Top.

LG same as model KG except that this Range has three Surface Units instead of four.

#### FAMOUS BUILT-IN QUALITY

All Westinghouse Ranges have one-piece welded range bodies, cooking platforms of titanium porcelain bonded to Ti-Namel steel, and zero ratings by Underwriters' Laboratories for flush installation.



# Westinghouse Appliances

*Ahead in Design • Features • Sales Appeal*

## WESTINGHOUSE ELECTRIC WATER HEATERS

Westinghouse Water Heaters can be installed anywhere—basement, kitchen, utility room, alcove, closet. Need no vent or flue. They can be installed nearest point of greatest use, an economy advantage that eliminates long pipe runs.

All Westinghouse Water Heaters carry a liberal 10-Year Protection Policy against tank failure. All have economical, efficient, direct-immersion heating elements; accurate, automatic temperature control, and Fiberglas insulation.

**DE LUXE MODELS** — In 10, 30, 40, 52, 66 and 80-gallon capacities, with single or double heating elements.

**TABLE-TOP MODELS** — in 30, 40 and 50-gallon capacities, single or double heating elements. Porcelain enamel platform\* with four-inch backsplashes provide standard-height work surface. Can also be installed under custom work surface. New 50-gallon size requires no more space than the 40.



De Luxe

Table-Top

### WATER HEATER SPACE REQUIREMENTS

De Luxe Models	Capacity	Height	Diameter	
CF10D	10 gal.	29 $\frac{3}{4}$ "	18 $\frac{3}{4}$ "	
CF30D	30 gal.	55 $\frac{3}{4}$ "	20 $\frac{3}{4}$ "	
CF40D	40 gal.	55 $\frac{3}{4}$ "	23 $\frac{3}{4}$ "	
CF52D	52 gal.	59 $\frac{3}{4}$ "	25 $\frac{3}{4}$ "	
CF66D	66 gal.	59 $\frac{3}{4}$ "	27 $\frac{3}{4}$ "	
CF80D	80 gal.	69 $\frac{3}{4}$ "	27 $\frac{3}{4}$ "	

Table-Top Models	Capacity	Height*	Width	Depth
AF30T	30 gal.	36"	21"	25"
AF40T	40 gal.	36"	24"	25"
AF50T	50 gal.	36"	24"	25"

\*Add 4" for backsplash.

## WESTINGHOUSE ROOM AIR CONDITIONERS

This new product in the 1954 Westinghouse line is rapidly becoming a "wanted" item in today's homes. Westinghouse has 5 models available. They require no building alterations, no pipes, ducts, or drains. Any model can be installed from inside, and will extend only about 9 $\frac{1}{2}$  inches into the room. They will fit any standard double-hung window. Their smooth modern styling, and two-tone Rose-Beige finish harmonize with any room decor.

All models have the Exclusive Westinghouse Comfort Control. The De Luxe Units have pushbutton controls for ten completely different comfort zones. Special Units have dial-type controls for six comfort zones. The entire control panel is concealed under the lid of the unit, free from dust and prying fingers.

Acoustical and thermal insulation is properly applied for

maximum performance and quieter operation in these room air conditioners. The easily accessible air filter can be quickly replaced. All units have adjustable draft-free grilles which can be turned independently to maintain draftless air flow in any one of four directions.

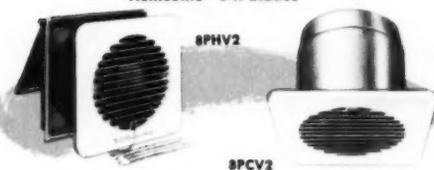
One-year warranty is given on the entire Room Air Conditioner, including cabinet and accessories. An additional 4-year warranty covers the complete Hermetically-Sealed Refrigeration System. Plugs into any adequately wired standard outlet. Complies with all existing electrical codes, and is listed by the Underwriters' Laboratories, Inc.

### Five Models for Every Size Room:

Special Models:  $\frac{1}{2}$  hp, Model AW-50;  $\frac{3}{4}$  hp, Model AW-75. DeLuxe Models:  $\frac{3}{4}$  hp, AW-75D; 1 hp, Model AW-100D; 1 $\frac{1}{2}$  hp, Model AW-150D

## POWERAIRE® VENTILATORS

with exclusive, Super-Safe, Super-Quiet Hemcolite® S-R Blades



8PHV2

8PCV2

**MODEL 8PHV2**—A prime objective of house prospects is a clean, comfortable kitchen or laundry. You can count upon Westinghouse Poweraire Home Ventilators to provide this. Easily installed . . . adjustable wall sleeve accommodates all standard wall thicknesses. One-piece steel grille is easily removed for cleaning.

**MODEL 8PCV2**—The ceiling ventilator uses a separate remote control switch to be provided by contractor. Heavy sheet steel adapter permits easy assembly to a standard 8" diameter duct, if required.

Both models are powered by a Westinghouse brushless, 2-pole, induction-type motor, and are economical to operate with individually self-aligning, porous-sleeve bearings.

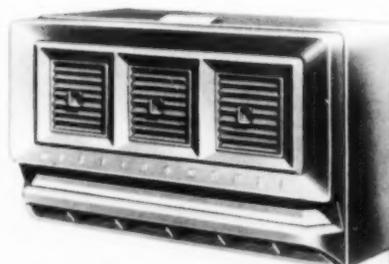
Catalog No.	Blade Size Inches	Volts	Cycles	Speed RPM	Air Delivery CFM		Watts	Approx. Shipping Wt.—Lbs.
					**	***		
8PHV2	8	115	60	1900	300	500	52	12 $\frac{1}{2}$
8PCV2	8	115	60	1900	300	500	52	10

**OVER-ALL DIMENSIONS** — (See installation and instruction leaflets, IL-11297 and IL-11298.) Watts, rpm, and air delivery may vary 10% from values shown.

\*\*T.M.

\*\*\*By Standards of National Electrical Manufacturers Assoc.

Free air capacity.



4FL-4115

For additional information or specifications, contact your nearby Westinghouse Distributor, or write to WESTINGHOUSE ELECTRIC CORPORATION, Electric Appliance Division, Mansfield, Ohio.

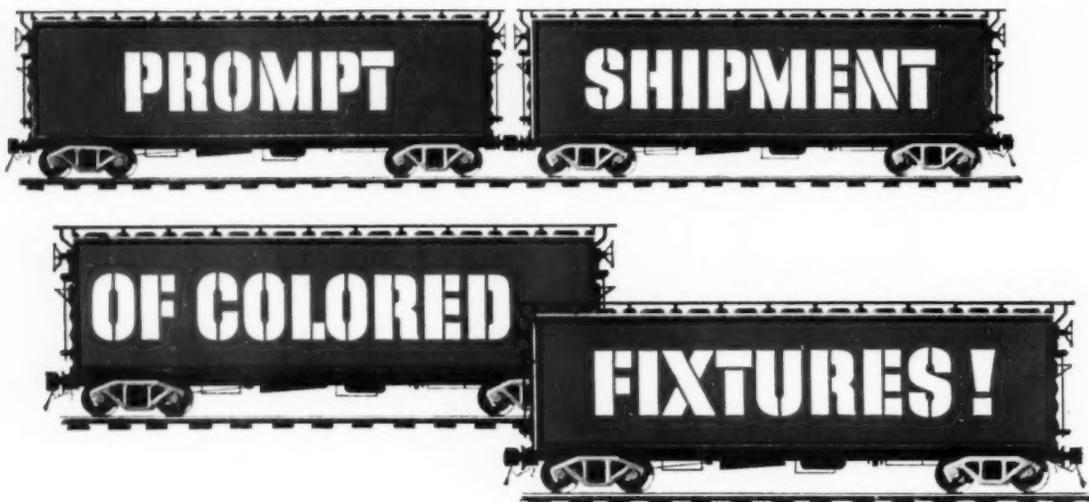


# "EVERYTHING HINGES ON HAGER!\*"

**FREE!** If you enjoyed laughing at Tom Henderson's mirth-making cartoon this month, send for Hager's new book containing 28 full-size popular "Everything Hinges on Hager" cartoons! It's FREE! Just address



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**Eljer's advanced production techniques and extensive, modern warehousing facilities mean prompt delivery of colored plumbing fixtures. You save time and money.**

**Other Eljer advantages:**

**1**

**All Materials!**

Now get cast-iron, steel, and china fixtures for bath, kitchen, laundry, plus all brass fittings from one source of supply.

**2**

**Color Matching!**

The same smart Eljer colors on all three materials . . . for example, you can match an *iron* bath, *steel* lavatory and *china* toilet with color harmony.

**3**

**Famous-Name Merchandising!**

Get the extra sales appeal of "Eljer plumbing fixtures throughout the house" or commercial building!

**4**

**Easy Ordering, Better Service!**

Select from *one* catalog, enjoy the better *service* of one reliable source of supply for all plumbing fixtures and fittings.

Add up these benefits! The wide selection of styles, materials, and colors; the merchandising, ordering, and new delivery advantages make Eljer easily the wisest choice for you. For all the facts, see your Eljer distributor or write Eljer Co., Box 192, Ford City, Pa.

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**ELJER**—THE ONLY NAME YOU NEED TO KNOW IN PLUMBING FIXTURES

# news

ON THE NATIONAL FRONT

## Hearings Continue on 1954 Housing Bill

The House Banking & Currency Committee began hearings March 2 on the Administration's 1954 housing bill—that long-awaited legislation designed to produce more new homes, clear slums and generally improve the nation's housing.

Provisions of the bill, grouped under eight titles, include proposals for more liberal FHA insurance, for flexible interest rates, a rechartered Fannie Mae, open-end mortgages and low-rent housing (for a complete rundown of the bill, see March, 1954 *American Builder*, pp. 39-42).

Details of the new bill did not come as a surprise. President Eisenhower's special message on housing, which went to Congress late in January, had indicated the extent and nature of the forthcoming legislation.

Congress received the housing proposals February 12, when Senator Capehart (R.-Ohio) and Representative Wolcott (R.-Mich.) introduced an identical bill in the Senate and House. Although initial hearings got under way early last month, final passage of the legislation still is several weeks away.

A general endorsement of the overall bill by HHFA Administrator Albert M. Cole highlighted opening sessions before the House committee. Cole considers the proposed legislation "a vigorous and stimulating approach" to the job of assisting people obtain good homes and good neighborhoods.

First reaction to the legislation by the home building industry was one

of cautious support. The National Association of Home Builders issued a statement endorsing "the principles and objectives" of the housing bill. But NAHB had reservations about the secondary mortgage market facility the bill would create.

"The bill's proposal for re-establishment of a secondary mortgage reserve facility would appear to be ineffective in its present form," NAHB declared. The association added, however, that it was "confident" this provision can be amended in Congress.

### More Lumber May Be Used In the '54 House

A top official in the wood products industry recently predicted that lumber will play a greater role in home construction in 1954. "The prospects are that as much lumber may be used to build about 1,000,000 new non-farm dwelling units this year as was used to build 1,100,000 units in 1953," declared Leo V. Bodine, executive vice president of the National Lumber Manufacturers Association.

### FHA Repays Treasury For All Funds Advanced

The Federal Housing Administration reports it has repaid the government all the money which was advanced to set up FHA insurance programs.

Approximately \$85,850,000 has been repaid to the U.S. Treasury, FHA said in a recent report. This included \$65,500,000 in principal and \$20,350,000 interest. The agency said interest was paid from the date of the initial advance of funds by Treasury, and the rate was 2¼ per cent.

FHA noted that since 1940 all its operating expenses have been paid out of income. Total insurance written by FHA passed the \$30 billion mark at the end of last year.

The PHA commissioner said 35,000 units may be "inadequate," but it represents a figure of "practical possibility."

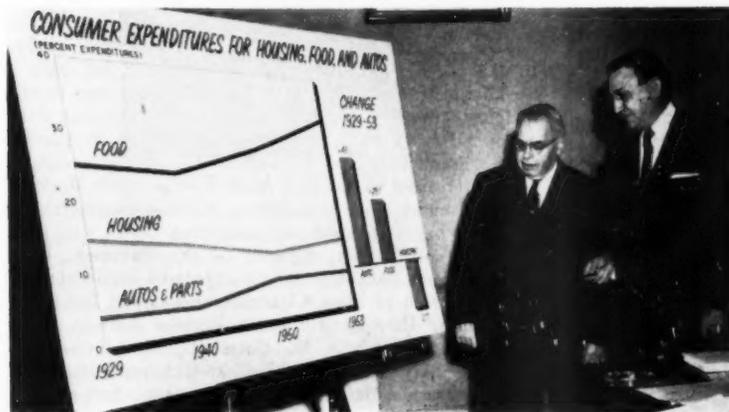
Slusser called upon local housing authorities to make the best of the situation by concentrating on the quality of housing they build. He said he believed public housing would play a "major role" in the growing attack on slums.

### Open End Mortgage Idea Spreads to N. Y. Life

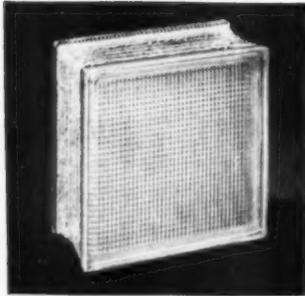
The open end mortgage movement received a decided boost recently when one of the nation's largest insurance companies announced its adoption. R. Manning Brown, second vice president of the New York Life Insurance Company, made the disclosure at the Mortgage Bankers Association of America midwestern conference in Chicago.

Under the open end mortgage, a home owner can reborrow part of the principal he has already paid off at the same rate and terms of the original loan. This money is generally used for repair or modernization of property.

Brown estimated that \$3 billion was spent by home owners in 1953 that could have been covered by open end mortgages.



Rep. Jesse P. Wolcott of Michigan, House Banking and Currency Committee chairman, listens as R. G. "Dick" Hughes, National Association of Home Builders president, reviews March 15 testimony on Administration's housing bill



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with privacy



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And, glass block panels have many other advantages. They're easy to handle, easy to install . . . no special gadgets are needed. They can be made to fit any size opening . . . no frame is necessary. They never need to be painted or puttied.

Literature for any glass block application is available free of charge. Write Glass Block Division, Owens-Illinois, Department AB-4, Toledo 1, Ohio.

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## NEWS

### Biggest National Home Week Will Be Held Sept. 19-26

The building industry's most successful promotion—National Home Week—will be celebrated September 19-26 inclusive, this year, reports the National Association of Home Builders.

Several thousand new homes replete with new ideas and valued at approximately \$100,000,000 will be on display in all principal cities, according to R. G. "Dick" Hughes, president, who predicted the observance would surpass all previous efforts. Millions of people are ex-

**How can National Home Week promotion specifically benefit you? *American Builder* is now preparing a fact-filled primer of information designed to show home builders and lumber dealers how they can participate in this most successful of all industry observances. Be sure to read it in the June issue.**

pected to participate in the celebration which, in many cities, will take the form of a "Parade of Homes"—an entire street or section of exhibit houses.

National Home Week is designed primarily to demonstrate the advantages of home ownership and the latest developments in home construction methods. It was conceived by Edward G. Gavin, editor of *American Builder*, in 1947, and adopted by NAHB the following year.

"Home builders this year," Hughes said, "will offer the finest new houses yet produced in America, in planning, arrangement, design and construction. We have set our sights on the production of 1,400,000 new homes a year in all price ranges, and National Home Week will help highlight what we are doing."

### Mack Leaves FHA to Head Eastern Mortgage Firm

The resignation of Curt C. Mack, for 15 years a key official of the Federal Housing Administration, was announced in mid-March by FHA Commissioner Guy T. O. Hollyday. Mack leaves government employ to accept the presidency of an eastern mortgage and real estate company.

He had served FHA since 1938, his last position being that of assistant commissioner in charge of underwriting. In this post, he directed all underwriting activities of the administration, covering the mortgage insurance on one- to four-family homes and large scale rental housing units.

Commissioner Hollyday eulogized Mack's contributions to the development of FHA-insured mortgage programs, which were still in the experimental stage when Mack began his service with the agency. No announcement of a successor had been made at press time.

Richard L. Steiner, director of the Baltimore Redevelopment Commission, has been appointed deputy director of the Division of Slum Clearance and Urban Redevelopment of the Housing and Home Finance Agency, it was announced by Albert M. Cole, HHFA administrator. Steiner's service with the Baltimore group since 1946 included responsibility for carrying out the program of slum clearance and urban redevelopment in that city.

Prior to the war, he served three years with the former U.S. Housing Authority in Washington, D.C., as a project planner.

## Painting Apprentices Replacing Only 20 Per Cent of Losses

A seriously inadequate supply of trained journeymen to meet the needs of the painting trade was reported by retiring president Richard H. Bohl at the 70th annual convention of the Painting & Decorating Contractors of America. The group held a four-day session in Los Angeles, elected William Gelfan, Los Angeles painting contractor, president for the coming year. Other officers named were George Steinheimer, Omaha; Ray Elvart, Chicago; John Cody, Nassau, N.H.; Harry Helzer, Cheyenne, Wyo., all vice presidents, and John Burns, Portland, Ore., treasurer.

Bohl stressed that "apprenticeship is a sound and proven method for training . . . skilled journeymen to meet the needs of the trade. Statistics of the Department of Labor, Bureau of Apprenticeship, show approximately 3,400 apprentices in training as of Sept. 30, 1953. . . . It is estimated that apprentices trained under the present program are not replacing more than 20 percent of the losses incurred through death, retirement and other causes."

Emphasizing the need for effective selling, Bohl said: "painting contractors have been slow to adopt the time payment plan. One of the most effective ways of meeting price resistance (in home owners) is to sell painting and decoration on a small down payment and monthly installments. . . . The home owner of modest income is accustomed to buying on the installment plan."

The retiring president blamed labor's reticence in adopting many newly developed time and labor saving devices as a leading factor in accelerating the "do-it-yourself" movement.

## Woodwork Manufacturers Elect Long-Bell's Gibson as President

L. L. Gibson of the Long-Bell Lumber Company, Kansas City, was elected president of the National Woodwork Manufacturers Association at its 27th annual meeting



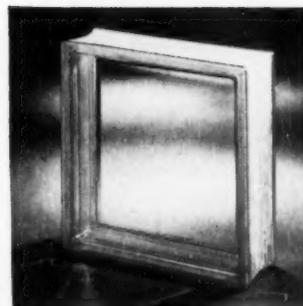
L. L. Gibson

held recently in Chicago. Three new directors were also named: George M. Curtis, Curtis Companies, Inc., Clinton, Iowa; K. N. Bergsbaken, Northern Sash & Door Company, Hawkins, Wis., and A. C. Moss, Keystone Frame & Manufacturing Company, Spokane, Wash.

Projects for 1954 include: 1. Completion of standards, with tests, for hollow core doors. 2. Revision of standard door guarantee and instructions for the proper care and finishing of woodwork. 3. Sound test for doors. 4. Revision of test for water repellent preservative treatment solutions. 5. Study of foreign competition and the importation of doors, plywood and veneers.

APRIL 1954

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No storm windows are needed to keep the clarity of glass block. They won't frost or sweat in winter. They provide better insulation than a window with storm sash. Owens-Illinois Glass Block are easy to handle, easy to store, hard to break.

For facts about the many ways you can use glass block to advantage, write for the information you need to: Glass Block Division, Owens-Illinois, Dept. AB-4, Toledo 1, Ohio.

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## Money Flow Seen Leading To New Wave of Housing

Our next great advance in housing is coming through an improved flow of mortgage money, Ronald J. Chinnock, president of the National Association of Real Estate Boards, declared in a speech at Jackson, Miss.

"Maldistribution of available mortgage funds has been a retarding influence during the past year," Chinnock said. "Fortunately," he added, "the situation has been improving in recent months . . ."

"We have a constantly expanding demand for home buying credit that to some extent has outgrown our system of meeting this kind of demand," Chinnock continued. He noted that President Eisenhower has asked Congress to establish a secondary mortgage market facility, and he said adoption of this idea would bring "a long-needed improvement in our system of home financing."

## New Jersey Plans State-wide Drive; Builders Start Anti-Slum Conferences

More than 500 municipal officials and civic leaders from 30 eastern cities are scheduled to meet in Trenton, N.J., April 12-14 for instruction on how to cope with the slum problem in their respective communities.

The three-day meeting is the first of a series of "Cities Organized Reconstruction" schools to be conducted by the National Association of Home Builders in cooperation with the New Jersey State Home Builders Association and local affiliates. A midwest school will be held later in Columbus, and a third is scheduled for the west coast.

The objective of the school is to provide the widest possible dissemination of information on procedures recommended for fighting the slum menace.

New Jersey Governor Robert F. Meyner will discuss plans for a state-

wide slum rehabilitation drive, the first to be undertaken in the United States. Under the new program, the state will provide technical assistance and trained personnel to communities actively engaged in slum rehabilitation.

## Home Values Unaffected by Airport Proximity

Contrary to general belief, residential values are not adversely affected by proximity to municipal airports, according to Herman O. Walthers, M.A.I., and real estate analyst, in a recent statement in the "Appraisal Journal."

He based his conclusion on a study of properties lying within one mile of Chicago's Midway Airport, in which the sale prices, number of transactions and volume of home construction in the area from 1940 to 1952 were analyzed and compared with the same factors found in two comparable areas beyond the airport's influence.

## VA Direct Loan Program Up for Year's Extension

The House Veterans Committee has approved a bill to extend the VA direct home loan program another year, from June 30, 1954, to June 30, 1955.

The new bill would authorize another \$100 million for the "revolving fund" from which VA makes direct home and farmhouse loans to veterans. These loans, subject to a maximum of \$10,000 each, have been limited to "outlying areas."

## Horner Heads Ponderosa Pine



F. A. Horner (left), president of Rockwell Sales Associates, Chicago, is congratulated by R. H. Morris, general manager of Ponderosa Pine Woodwork on Horner's election as association president. Other officers include Paul W. Curtis of J. Neils Lumber Co., Minneapolis, vice president; J. D. Rowland, vice president of the Anderson Corp., Bayport, Minn., treasurer; and Loyde S. Blakely, Brooks Scanlon, Inc., Bend, Oregon, secretary



### Dickerman's Column

John M. Dickerman, Executive Director, National Association of Home Builders of the United States

### Favorable Washington Attitude Stimulates Builders' Promotions

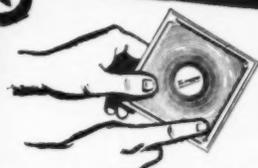
The importance of the housing industry as a bulwark against depression has again been underscored in Washington, where Congress is giving priority to legislation aimed at maintaining a high rate of residential construction and extending home ownership to a broader segment of the American people. What action Congress will finally take is uncertain at this writing, but President Eisenhower has left no room for doubt that housing has been assigned a major role in his efforts to keep unemployment down and the economy running in high gear.

No fewer than 16 separate Federal agencies concern themselves directly with home building today, and the statistics they issue periodically on housing production, sales, costs and trends are scanned carefully by Administration officials and members of Congress as a sort of barometer of general business conditions. In addition, a wealth of information assembled by the National Association of Home Builders showing how housing directly affects every major industry and the lives of all our citizens is welcomed by Capitol Hill and in Government offices.

What does all this flattering attention mean to the individual home builder? For one thing, it is unmistakable evidence that home building, which less than a generation ago was a disorganized trade with little or no national stature, has moved up to the front rank of the country's giant industries. It has attained a powerful and progressive voice in the affairs of the nation and its counsels are not only welcomed but actively sought by our Government leaders. For another, it places extra responsibility upon the builder to improve his merchandising, design and construction so that he can do his full share toward maintaining employment and prosperity in his own community. It also creates an unprecedented opportunity for builders to assume a greater degree of leadership in their communities. Only through such leadership can they hope to bring about badly-needed reforms of archaic building codes and regulations which, because of public and official apathy, have so long hampered the growth and progress of the housing industry.

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Colors**

Solids, Pastels, Pearlescents,  
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**8 1/2" PEARL  
IMPERIAL**

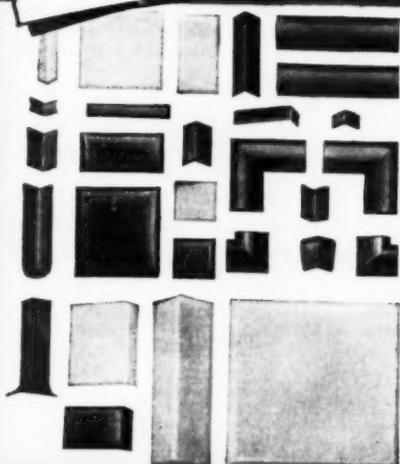
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beauty!

For **"ALL-TILE"**  
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Trims, and inside and outside  
corner pieces in all colors  
for complete tile jobs!

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as a basic structural ma-  
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equaled for quality. Dis-  
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through reputable, ex-  
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finest Styron plastic tile!



**29 ASSORTED  
TILE PIECES**

- Field Incorner
- Field Tile
- Half or Cap Tile
- Field Outcorner (narrow)
- Offset Bullnose Cap
- Bullnose Cap
- Stripe Incorner
- Stripe
- Stripe Outcorner (wide)
- Stripe Outcorner (narrow)
- Cap Incorner
- Cap or Half Tile
- Cap or Half Outcorner (narrow)
- Bullnose Cap Butterfly
- Bullnose Cap Incorner
- Bullnose Cap Outcorner
- Base Incorner
- Base Tile
- Quarter Tile
- Base Outcorner
- Field Outcorner (wide)
- Cap Outcorner (wide)
- 3/8" Outcorner
- 3/8" Panel Tile
- 3/8" Brick Style

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quicker sales, lasting customer  
satisfaction are assured with  
every Tilemaster installation.  
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and endorsed by F.H.A. and  
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the best—eliminate unpleasant  
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DEPT. AB-24

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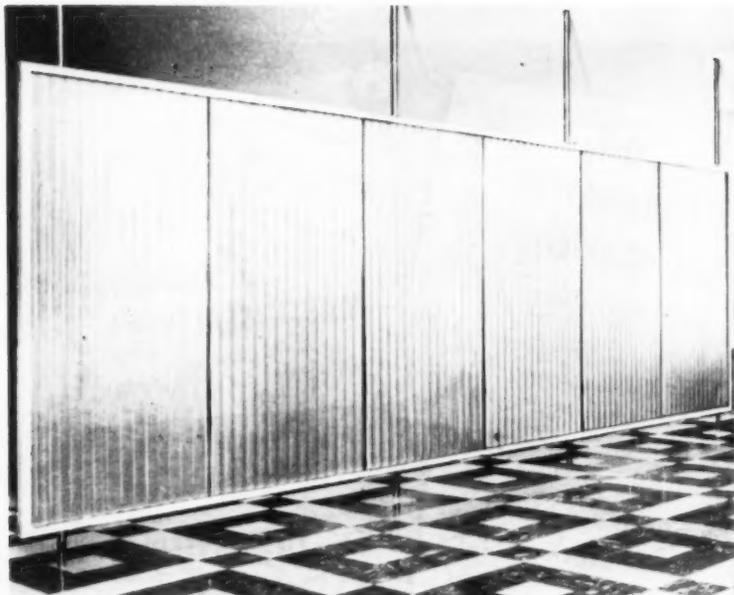
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Some valuable distributor territories  
still open. Write for information today!

## new products



Mounted "Sturdalite" panel, showing use of manufacturer's Seal Strip, which joins butting sheets of panel, avoids lapping

### DECORATIVE PLASTICS AB45409

Laminated plastics in 65 colors, 38 of them completely new, have been introduced to coordinate kitchen surfaces with current developments in fabrics, paints and floor coverings, and to provide plastics that lend themselves to furniture, walls and built-ins throughout homes. The line features 18 solid colors, Italian marble patterns, geometrics of tone-on-tone squares placed at random on white ground



(shown is "Cocoa Capri," one of the new geometrics), textured and linear patterns.

The new "Sunrise Color" line has been styled by Raymond Loewy Associates, after an intensive market survey of the manufacturers' distributing organization and present style trends. All designs are produced in polished and satin finishes. Sheets are made in 2-, 2½-, 3- and 4-foot widths and in 5-, 6-, 7-, 8- and 10-foot lengths. Any combination of these widths and lengths is available. The Formica Co., Dept. AB, 4614 Spring Grove Ave., Cincinnati 32, Ohio.

### FIBER GLASS-PLASTIC BUILDING PANEL AB45401

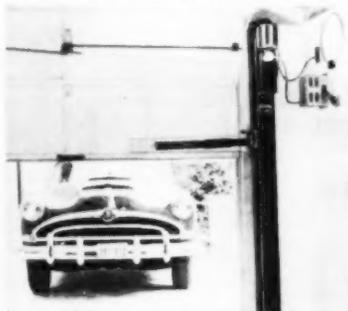
This shatterproof, translucent building panel of fiber glass and polyester plastic is stated to have exceptional strength, light weight and diffusing qualities. It is suitable for many structural and decorative purposes, including skylights, canopies, garage roofs, partitions and bathroom enclosures.

Available in corrugated or flat sheets of six- to 12-foot lengths, 26 to 40 inches wide, the material, called "Stur-

dalite," is designed to nest with corrugated metal of standard pitch, eliminating need for window frames. The panel is corrosive-resistant, will not crack, craze nor fade, and can be worked with ordinary hand or power tools. It is furnished in seven stock colors and custom colors on larger orders. Wright Manufacturing Co., Dept. AB, P.O. Box 6567, Houston, Texas.

### DOOR OPERATOR AB45404

A new remote control door operator, equipped with continuous shaft torsion spring hardware, is designed for overhead sectional doors up to 16x7 feet. The operating unit is completely integrated and is attached to a flat mount-



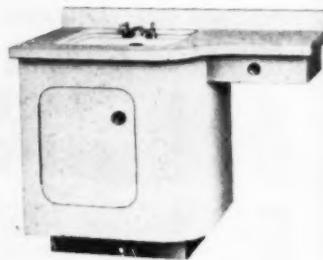
ing surface adjacent to the door. Unit also provides for simultaneous turning on and off of garage lights.

Included with the unit is a remote car control set, consisting of a garage receiver, auto transmitter, loop antenna and car push button. When the unit is in operation, the garage door can be opened from a distance of 40 to 75 feet. Driver need not stop or leave car. H. W. Crane Co., Dept. AB, 1443 W. Lake St., Chicago 7, Ill.

### BATHROOM VANITY AB45411

Complete line of bathroom vanities is designed as economical built-in features for new homes. Called "Vanity Fair," the new line is stated to incorporate design and construction details for comfortable use and easy maintenance—ample surface room, spacious storage areas, rounded corners and a variety of colors and patterns in Formica.

Important to the builder, the line is available with or without sink and fittings. The model shown is a 42-inch single pedestal vanity with drawer; the



builder may specify whether the sink is to be at left or right. National Vanity Co., Div. of National Door Co., Dept. AB, 163 Ave. A, Bayonne, N.J.

◆ FOR MORE INFORMATION USE COUPON ON PAGE 52

# MARVAIR gives you the tremendous sales appeal of **AIR CONDITIONING** . . . even in **LOWEST-COST** homes!

## **AIR COOLED** . . . No Ducts, No Plumbing, No Floor Space

Here is your answer to the universal demand for *complete* home air conditioning at budget prices! The MARVAIR Air-Cooled Air Conditioner can be included in any conventionally built one-story home with a central hall, at *sensationally low first cost and installation cost!*

No ducts, no plumbing, no water-main connection and no hookup with the heating plant are required for this amazing unit. It may be installed with either wet or dry heat since it operates independently of the furnace. Using no water, it is a boon in drought areas. Elimination of ducts reduces installation cost to a minimum.

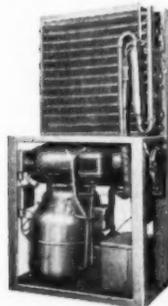
Of prime importance to the home buyer, MARVAIR takes up no precious floor space. It is located between ceiling and roof, in space normally wasted.

### Available Through Your Jobber

Guaranteed to give satisfaction—the MARVAIR refrigeration circuit is covered by a 5-year warranty;

all other parts for one year. From every angle, this revolutionary new air conditioner is ideal for you . . . ideal for the home owner. Whether you build projects or custom, it will pay you to investigate MARVAIR!

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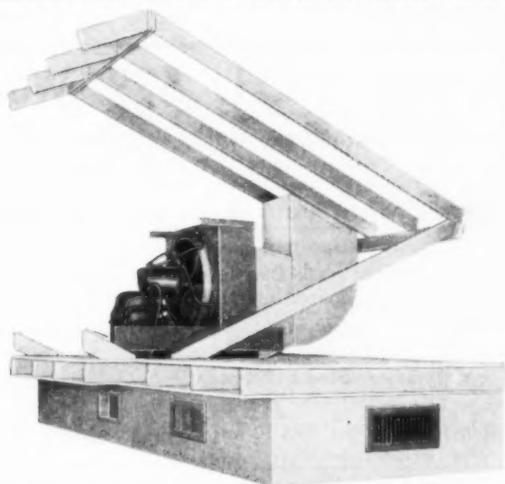
**MARVAIR Division**  
of Muncie Gear Works, Inc.  
Muncie, Indiana

**ALSO . . . a Complete Line of Base Units for Furnace Manufacturers** 2, 3 and 5-ton base unit air conditioners . . . for upright, duct or counterflow installations. These may be installed in specially designed cabinets as a companion unit or as part of the furnace itself. All units are hermetically sealed and warranted. Complete details and engineering service available on request.

SANDS OF NATIONAL HOMES . . . NOW BEING INCLUDED IN THOUSANDS as featured in the New 1954 "Ranger" shown below.



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*Here's How the Marvelous MARVAIR Works: Outside air is drawn in through roof vent by powerful fan, and forced across condenser. This air is then pushed out of attic through gable louvers, creating an "air wash" under roof to keep attic cool.*

*Return air from interior is pulled in through grille in dropped ceiling of central hall, cooled and dehumidified by unit, and forced into dispersal chamber in central hall, from which it flows into each room. Temperatures are controlled automatically by a thermostat.*



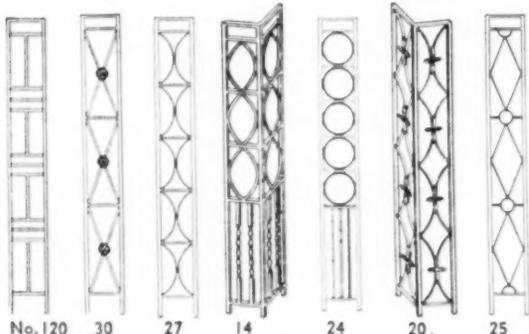


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stock and custom work—LOW PRICES!

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New 40-page catalog showing stock and custom work prices and installations. Many ideas for your own plans.

**PORCH COLUMNS**

1" square solid steel supporting posts.

Average weight of 90° porch column is 125 lbs.

Always specify single or 90° corner columns when ordering.

**PRICES**—12" 90° corner columns: 7'—\$28; 7'6"—\$30; 8'—\$32

Single 12" panels: 7'—\$17; 7'6"—\$18; 8'—\$19

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**\$10. Gets YOU \$29. Worth, PLUS**

The amount you can BUILD that \$10. into is unlimited—  
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350 pictures of Home Designs on 8½ x 11 sheets, with clear floor plans and descriptions; ranches and colonials.	
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4.—Home Owners Property Records . . . . .	<b>.50</b>
5.—Small Job Estimator. Has 10 sets of estimate sheets for small repair jobs; includes short-form contracts . . . . .	<b>.35</b>
6.—3 Plan folders of 4, 5, or 6-room designs . . . . .	<b>.30</b>
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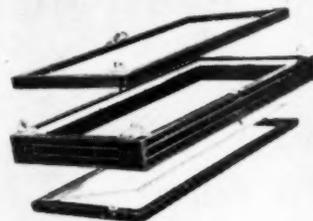
- Check enclosed for \$10. postpaid
- Send invoice for \$10. postpaid

**Home of the Week Plan Service**  
89 Elmgrove Avenue, Providence 6, Rhode Island

**new products**

**PLASTIC WINDOW UNIT AB45405**

The "Plyco" plastic window frame unit does not shrink, swell, rot or rust, according to its manufacturer. Each unit consists of a molded plastic frame, glazed sash and a combination storm



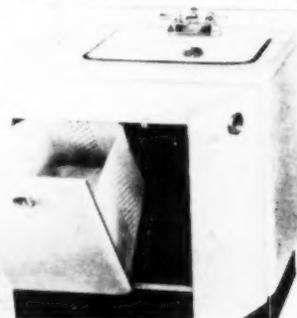
and screen unit. Units are designed for use in basements, utility rooms, tourist cabins, barns and industrial buildings. Since no cellulose fibers are used, the "Plyco" unit is termite proof. It is unaffected by mild acids, alkalis or salt air, and is fire resistant.

Aluminum weather stripping assures a year 'round snug fit, and a glazing strip eliminates putty. All units have jointless construction with rounded corners. The unit can also serve as a 16x32-inch glass block ventilator. It fits an opening in standard 8-inch glass block, two blocks high and four blocks wide. The Kohl Company, Dept. AB, Elkhart Lake, Wis.

**BATHROOM CABINET AB45410**

The new Cadet model plastic laminated bathroom cabinet is designed for apartments and small bathrooms; it is 31 inches long. The new Regent model, 47½ inches long, is designed for narrow bathrooms. Matching plastic-edged medicine cabinets are 30 inches high and available in four lengths, 36, 47½, 54 and 60 inches.

These units are part of a stock model line of eight styles and a modular line of four styles—utility, hamper, drawer and lavatory cabinets, each available in



three sizes. These cabinets are laminated with a "lifetime" melamine plastic. Doors are warp-proof, edges are metal bound to prevent chipping, full piano hinges are used. Cabinets are supplied in a variety of colors. Regal Cabinet Corp., Dept. AB, 92 Third St., Brooklyn 31, N. Y.

♦ FOR MORE INFORMATION  
USE COUPON, PAGE 52

**AMERICAN BUILDER**

# STERLING HARDWARE FOR SLIDING DOORS

## HANGERS FOR BY-PASSING DOORS

No. 630 HANGERS for 1 3/8" Wardrobe Doors  
Four rollers per door. Hanger cross arm pivots to equalize load on twin rollers. Slotted screw holes make it easy to plumb doors. Cadmium plated steel with nylon rollers.



No. 620 HANGERS for 3/4" Wardrobe Doors



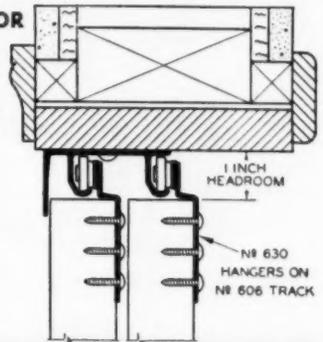
No. 610 HANGERS for 3/4" Cabinet Doors



## ALUMINUM TRACK FOR BY-PASSING DOORS

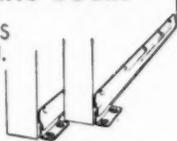
Etched and anodized to a beautiful satin finish. Apron serves as decorative trim. Requires only 1 inch headroom in standard door frame.

No. 602 for 3/4" Doors  
No. 606 for 1 3/8" Doors  
No. 608 for 1 3/4" Doors



## FOR BY-PASSING DOORS

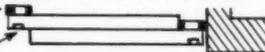
No. 876 GUIDE STRIPS  
Save time. Easy to install. Eliminates old-fashioned saw kerf in bottom of doors. Cadmium plated steel.



No. 885 DOOR CUSHIONS  
Protect fingers from getting pinched in flush pull and prevent slam when doors are opened or closed. Cadmium plated steel with rubber cushions.



FLUSH PULLS ALWAYS ACCESSIBLE



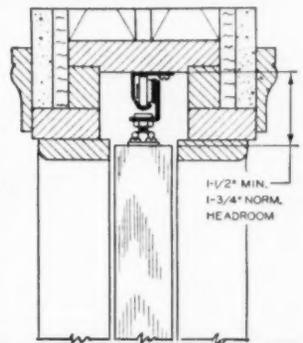
# Sterling® HARDWARE

## FOR WALL POCKET DOORS

No. 642 HANGERS on No. 601 TRACK



Track is aluminum. Easily screwed to pocket header. Hangers are fully adjustable. Cadmium plated steel with Nylon rollers.



## No. 1058 SLIDING DOOR LOCK

Designed on a new principle. Easily installed by boring one hole. Key required to lock or unlock, eliminating possibility of leaving key inside wardrobe. Fits 3/4" to 1 3/8" doors. Finished in polished brass or polished chrome.



LOCK TONGUE



## No. 1036 SLIDING DOOR LOCK

Easy to install. Bore two holes. Privacy assured by turning thumb button. Emergency button on outside can be turned with screw driver or coin. Lock will engage strike even with some misalignment. Fits 1 3/8" to 1 3/4" door. Finished in polished brass or polished brass and chrome combination.



## FLUSH PULLS



872 873 874

## No. 880 DOOR STOP

Keeps doors from by-passing each other. Protects fingers. Cadmium plated steel with rubber bumper.



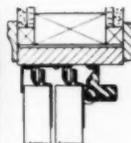
## EDGE PULLS



881 882

## No. 878 GUIDE STRIP

Guides door into pocket. Eliminates saw kerf in bottom of door. Aluminum. For 1 3/8" door only.



No. 639 CENTER STOP  
Used in four door units and for bi-parting pocket doors. Cadmium plated steel. Includes two rubber bumpers.



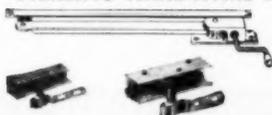
## FOR SIDE ENTRANCE DOORS IN HOME GARAGES

No. 890 SLIDING DOOR SET  
Includes track, adjustable hangers, edge guides, floor guide, back stop and two flush pulls. For 1 3/8" doors.

No. 1025 SLIDING DOOR LOCK  
Rim type. Reversible. Easy to install. For 1 3/8" to 2 1/4" doors. Bronze enamel finish.



## STERLING HARDWARE FOR CASEMENT WINDOWS



No. 61 CASEMENT WINDOW OPERATOR  
No. 155 & No. 165 PULL-TITE CLOSERS

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• Other Builders Hardware

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2 7/8" Capacity  
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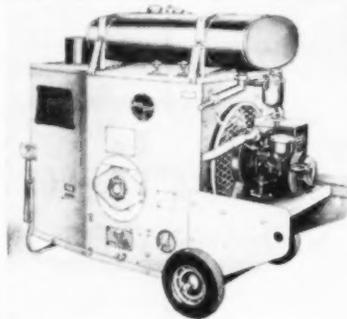
Address \_\_\_\_\_

BU-105

## new products

### PORTABLE AIR HEATER AB45406

This redesigned standard model air heater is powered with a new Briggs and Stratton engine which permits modification in engine mounting, resulting in a simpler arrangement of components at the air intake end of the heater. A fuel



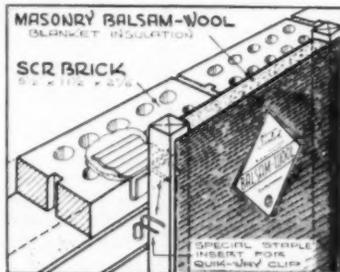
metering valve reduces the capacity of the unit from its maximum 385,000 Btu's to a low of 100,000 Btu's per hour.

The Standard Model is the only self-contained gasoline-fired unit in the manufacturer's Herman Nelson line. It is stated to be suitable where electricity is not available and where portable and spot heating in the ducts is an important factor. American Air Filter Co., Inc., Dept. AB, 1824 Third Ave., Moline, Ill.

### BLANKET INSULATION AB45408

Masonry Balsam-Wool is a sealed blanket insulation that can be applied between furring strips for all types of masonry construction, including "SCR brick." It is supplied in two widths for application either to 16 or 12 inches on center.

The material has a thermal conductivity of .25, indicating its efficiency for building insulations. Because the insulating mat is enclosed and sealed in asphalt-saturated and coated liners, the product is stated to provide a year-round insulated wall by keeping out summer heat and retaining indoor



winter warmth. Masonry Balsam-Wool is vapor- and wind-resistant, bonded to the covering so it will not shake down in the walls. A flange permits it to be stapled or nailed to the furring strips. Wood Conversion Co., Dept. AB, First National Bank Bldg., St. Paul 1, Minn.

♦ FOR MORE INFORMATION  
USE COUPON, PAGE 52

## BOSTROM LEVELS FOR HALF A CENTURY

Have been the most economical precision leveling instruments on the market.



No. 5 BOSTROM  
Convertible Level  
Detachable Com-  
pass when desired

Used and endorsed by contractors and builders everywhere. Sold on guarantee of satisfaction or money back.

Carried in stock by distributors from coast

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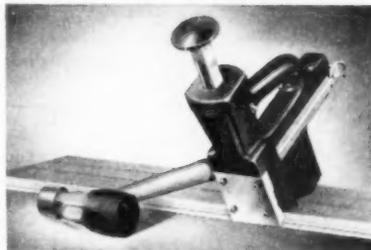


No. 4 BOSTROM  
Contractors' Level

Simple, Accurate, Durable, Complete

**Bostrom - Brady Mfg. Co.**  
535 Stonewall St., S. W. ATLANTA, GA.

## NEW POWERNAIL SPEEDS PRODUCTION



Use This Machine to:



- Nail T&G Flooring
- Draw Strips Tight
- Drive all nails 45°
- Expand Production
- Nail & Set One Blow

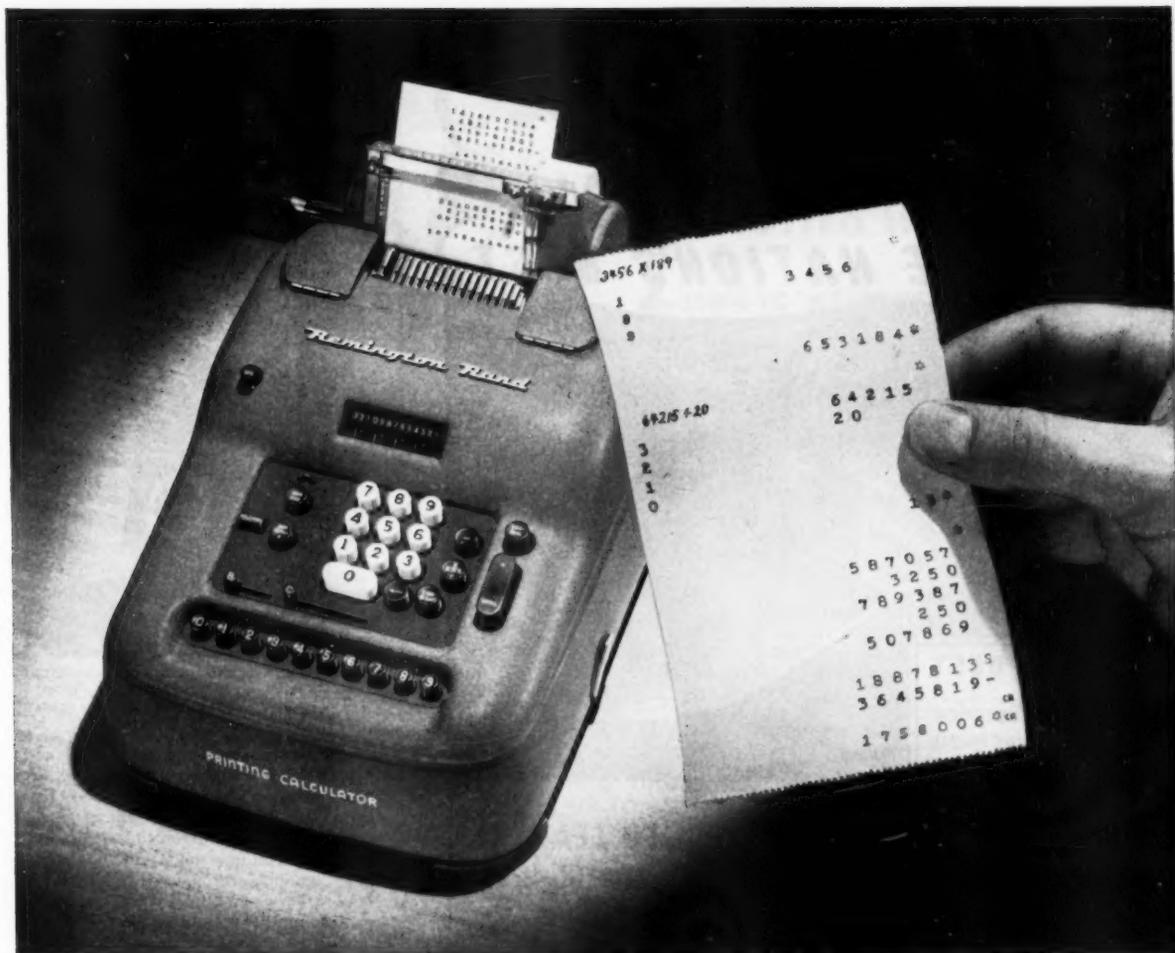
Hardwood flooring can now be laid better, in a fraction of the time formerly required! The NEW POWERNAIL Model 145 cuts nailing time up to 60%. No more wasted nails or tedious hand setting. The POWERNAIL magazine holds 100 flooring cleats.

POWERNAIL eliminates split tongues, cupping, warping and reduces surface marring and erratic nailing. Can't rust, clog or jam. Built for long dependable service.

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AMERICAN BUILDER



Now—get all your answers automatically!

WITH THE NEW, FULLY AUTOMATIC, REMINGTON RAND PRINTING CALCULATOR

This new, performance-packed printing calculator multiplies, divides, adds and subtracts amounts up to ten trillion. It prints and proves every calculation on the tape. It is the *first* fully automatic printing calculator with all these features:

**Simpla-tape**... printed proof in black and red with all the essential elements, no superfluous figures.

**Automatic multiplication**... fully automatic short-cut multiplication with push-button ease.

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**10-key touch addition and subtraction**... effortless speed through simplified touch operation.

**Constant key**... Remington Rand's exclusive multiplication "memory" feature.

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**FREE!** Ask your Remington Rand Representative for an eye-opening demonstration, or send for your copy of this "show how" folder. Write Remington Rand, Room 1413, today. Ask for C669.

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APRIL 1954

49

**IMPERIAL**  
**Lux-Right®**  
**AREAWALLS**  
**THE NATION'S BEST**

**GET THE BEST**

**For Long Service**  
—OUTLASTS THE HOUSE

**For Good Looks**  
—UNSURPASSED NEATNESS



**SO EASY TO INSTALL!**

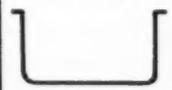
**ACKNOWLEDGED LEADER!**  
**For Homes, Schools, Churches,**  
**any type of Building**

The practical Stream-lined Straight type Lux-Right Steel Areawall (see installation above) enjoys continued leader-

ship among basement window well walls. A complete range of sizes to fit all standard window openings. Round type also supplied, and Casement type too.

The Original and only metal areawall hot-dipped galvanized (heavy zinc process) AFTER all punching, forming and other operations. Made in one-piece, the Imperial Lux-Right Areawall has full  $\frac{5}{8}$ " deep horizontal corrugations,  $2\frac{1}{2}$ " on center. It has a  $\frac{3}{4}$ " round bead on top edge, and flat  $2\frac{1}{2}$ " Hug-Tite Flanges on both sides for tight fit to foundation wall. Holes for attachment in both flanges.

**LUX-RIGHT**  
**CASEMENT**  
**TYPE**



Square-type corners  
for casement window  
clearance

Send at once for this illustrated folder, giving full information on sizes for standard openings and proper way to install. It's FREE from us, or your nearest distributor or building materials dealer.

**We prepay freight**  
**on 12 or more units**



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AB-C

**SAINT PAUL CORRUGATING CO.**

Expert Fabricators of Sheet Metal Products for 69 Years

**SOUTH END WABASHA BRIDGE • SAINT PAUL 1, MINN.**

**new products**

**VENTILATING FANS AB45403**

These fans, designed for wall and ceiling installations, have a one-piece grille mounted with a neoprene rubber grommet and single-threaded nose piece. All are available with a baked-on white

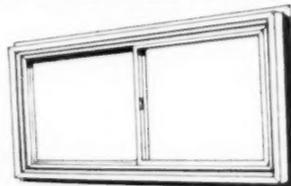


enamel grille that permits maximum passage of air; a chrome grille is also furnished.

Fans come knocked down, requiring a minimum of assembly time. Blades and fan housing are designed for greater air volume, quiet operation. The units feature "snap-in" assembly on the propeller and motor unit, permitting fast, easy cleaning. The new models include eight- and ten-inch through-wall ventilators and a ten-inch combination wall-and-ceiling fan. To provide a merchandising and sales display, the makers developed a rack (illustrated) showing three models. All fans are wired for demonstration. Miami Cabinet Division, The Philip Carey Manufacturing Co., Dept. AB, Middletown, Ohio.

**SLIDER WINDOW AB45402**

This new "Job-Condition" horizontal slider window is installed in a rough opening by nailing through the aluminum flashing fins which are concealed after the exterior finish surface has been



applied. The package is complete with both extruded aluminum interior trim and integral exterior finish trim.

By simple on-the-job adjustments, the window may be fitted to within  $\frac{1}{32}$ -inch of the total through-wall thickness which in itself may vary from  $4\frac{3}{8}$  to  $5\frac{3}{8}$  inches from face of exterior sheathing to face of interior finished surface. Per-Fit Products Corp., Dept. AB, 1200 E. 52nd St., Indianapolis 5, Ind.

♦ **FOR MORE INFORMATION**  
**USE COUPON, PAGE 52**

**AMERICAN BUILDER**

# 4 IDEAS that give you the Biggest *PLUS* Benefits in Building!

## 1. HOW TO GET WARM, DRY FLOORS

### ZONOLITE<sup>®</sup> INSULATING CONCRETE

**ECONOMICAL—PERMANENT—**Zonolite Insulating Concrete is an inert mineral, entirely inorganic. As permanent as the earth itself—the first cost is the last cost!

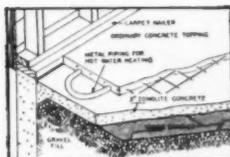
**INCOMBUSTIBLE—**Zonolite CAN-NOT burn.

**ROTPROOF, VERMINPROOF—**Not affected by moisture...dries out to original efficiency. Will not sustain animal life.

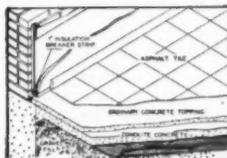
**LIGHTWEIGHT—**Weights 1/5 as much as ordinary concrete or less than 2 lbs. per sq. ft. 1 in. thick.

**HIGH INSULATING VALUE—**Warm, dry floors for all types of on-the-ground construction. Zonolite Insulating Concrete has a rate of heat transfer equal to 16 inches of ordinary concrete!

FOR COMPLETE DETAILS, WRITE FOR BOOKLET CA-4.



Radiant Heat Pipes Over Zonolite Insulating Concrete



Zonolite Insulating Concrete used on the ground

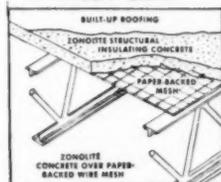
## 3. HOW TO GET LIGHTWEIGHT ROOF DECKS WITH BUILT-IN INSULATION

### ZONOLITE<sup>®</sup> CONCRETE ROOF INSULATION

Zonolite Concrete is permanent—not affected by destructive agents that would harm less permanent materials. Zonolite weighs only 1/5 as much as ordinary concrete. It provides a fireproof, monolithic covering of insulation without joints or voids.

Zonolite Insulating Concrete may be used two ways: (1) Poured as insulation over existing roof decks of concrete, wood, metal, tile, etc. (2) As insulation and structural deck combined, when poured on supporting forms such as paper-backed welded wire mesh, high-ribbed metal lath, etc.

FOR FURTHER DETAILS, WRITE FOR BOOKLET CA-5



Zonolite Insulating Concrete Over Paper-Backed Welded Wire Mesh

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ZONOLITE booklets you would like to have...they're FREE! Mail coupon NOW!

## ZONOLITE COMPANY

135 South LaSalle St., Chicago 3, Illinois

APRIL 1954

## 2. HOW TO INSULATE ATTIC IN 2 HOURS

### ZONOLITE<sup>®</sup> INSULATING FILL

The easiest of all insulations to install...anyone on the job can insulate the average attic in as little time as 2 hours. Zonolite Insulating Fill pours directly from the bag between attic joists and sidewall studs. Flows freely and snugly around pipes, wiring and braces. Pour it, level it, leave it! 100% fireproof, rotproof, verminproof, lightweight, efficient, permanent. Cuts summer temperatures up to 15°. Saves up to 40% on winter fuel bills.

FOR COMPLETE DETAILS, WRITE FOR BOOKLET HI-20



#### APPROXIMATE COVERAGE OF ZONOLITE INSULATING FILL

Thickness	2"	3"	3 3/4"	4"	5"	5 1/2"
Coverage per bag in sq. ft.	26	17	14	13	10 1/2	9

## 4. HOW TO REMODEL QUICKLY—GET ACOUSTICAL BENEFITS, TOO!

### ZONOLITE<sup>®</sup> ACOUSTICAL PLASTIC

A ready-mix fireproof acoustical plaster that requires only the addition of water. Zonolite Acoustical Plastic can be troweled over any clean, firm, water-resistant surface. Old cracked ceilings can also be covered effectively without removal or use of additional lath, provided the plaster is firm and the finish coat of plaster is not separating from the base coat. Zonolite provides up to 400% more fire protection for walls and ceilings, a noise-reduction coefficient of 0.65.

FOR FURTHER INFORMATION, WRITE FOR BOOKLET PA-5

Coefficient of sound absorption recorded for Zonolite Acoustical Plastic 1/2" thick after being painted with 2 and 4 coats of Kcm-Tone.

FREQUENCY (cycles per sec.)	COEFFICIENTS	COEFFICIENTS
128	.31	.30
256	.32	.37
512	.52	.59
1024	.81	.84
2048	.88	.74
4096	.84	.65
NOISE REDUCTION Coefficient	.65	.65



Zonolite Company, Dept. AB-44,  
135 S. LaSalle Street, Chicago 4, Ill.

Please rush the FREE Zonolite Booklets that I have checked below:

- Zonolite Insulating Concrete Booklet, CA-4  
 Zonolite Insulating Fill Booklet, HI-20  
 Zonolite Concrete Roof Insulation Booklet, CA-2  
 Zonolite Acoustical Plastic Booklet, PA-5

Name.....

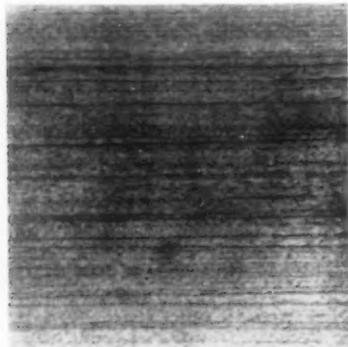
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City..... Zone..... State.....

## new products

### VINYL WALL COVERING AB45407

The textured effect of natural wood is featured in a new mahogany pattern introduced in vinyl wall covering. Available by the yard or in eight-inch square tiles, the pattern comes in blond, gray, African and Carib Tan. The material requires no shellac, stain, varnish, wax or finish. Having a vinyl face sheet laminated to a rubber-saturated backing, it is easily applied to old or new walls, and can be installed around columns or bent around sharp inside or outside corners. Since it is cemented to the wall, it requires no nails. When properly applied, seams are practically invisible, and remain so through years of service, as the

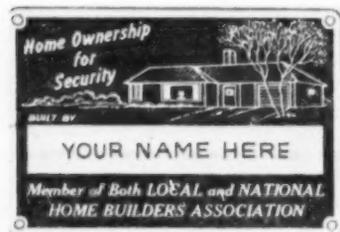


product is a dimensionally stable material made to eliminate seam shrinkage.

The product, called "Bolta-Wall," wipes clean with a damp cloth; it resists moisture, grease, steam, alcohol and most staining agents. It was recently classified as a fire-retardant material according to Federal specifications. Bolta Products Sales, Inc., Dept. AB, Lawrence, Mass.

### NAME PLATE AB45419

A useful builder's item is embodied in this personalized name plate made of heavy-gauge brass, measuring  $3\frac{7}{8}$  by  $2\frac{9}{16}$  inches. Finished in green enamel and brass, the plate comes with a choice of slogans for association or non-association members, as follows: "Member of Both Local and National Home Builders Association," or "Builders of Quality Homes." The plates can



be mounted in an out-of-the-way, yet conspicuous location, either in- or outdoors; mounting screws are furnished. Builders Name Plate, Dept. AB, Box 598, Loring Sta., Minneapolis 3, Minn.

### DUMPY LEVEL AB45414

The model GEO 47 pocket size dumpy level with erecting eyepiece is designed for small leveling jobs and preliminary surveying of larger projects. According to its manufacturers, it



is an indispensable assistant for the architect, surveyor and contractor.

The 12x power telescope is  $5\frac{1}{2}$  inches long and has an objective of  $\frac{3}{4}$  of an inch. Its shortest focusing range is eight feet. The instrument weighs 12 ounces and can be fastened on any camera tripod or will fit into a coat pocket. Size of leather carrying case is  $1\frac{3}{4}$  by  $2\frac{1}{8}$  by 6 inches. Geo-Optic Co., Inc., Dept. AB, 170 Broadway, New York 38, N.Y.

### KNOB AND LOCKSET AB45417

The Challenger 800 series of semi-heavy duty latchsets and locksets is now available in a new, concave design; latest addition to the line is a



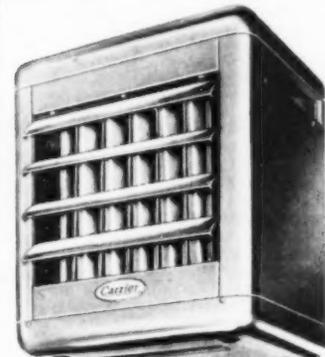
lock especially made for motels and apartment house entrance doors. It is equipped with a positive shut-out feature. When rooms of such establish-

ments are locked from the inside with this device, they may be opened from the outside only by the use of a special key. This lock thus assures room tenants of complete privacy, coupled with safety.

The 2-inch diameter concave knob is made of seamless wrought brass, bronze or aluminum, available in all U.S. finishes. These finishes are protected by a clear baked enamel which is said to be practically indestructible. Hollymade Hardware Manufacturing Co., Dept. AB, 4865 Exposition Blvd., Los Angeles 16, Calif.

### GAS UNIT HEATER AB45412

This compact, gas-fired unit heater is designed to meet demand for equipment combining maximum capacity with limited installation space requirements. It is 23 inches high, less than



23 inches deep, including fan and motor assembly, and  $19\frac{1}{2}$  inches wide. Its capacity is 50,000 Btu's per hour. The unit is said to be particularly suitable for spaces with low headroom.

Gas is fired directly in the tubes of an all-welded, gas-tight heat exchanger made of 16-gauge corrosion-resistant aluminized steel. The exchanger assures longer life, since aluminized steel will withstand temperatures up to 1600 degrees F. without destructive scaling. The heater is designed for quiet operation. It is approved by the AGA for use with all types of gas. Carrier Corp., Dept. AB, 302 S. Geddes St., Syracuse, N.Y.

### USE THIS COUPON FOR MORE INFORMATION ON NEW PRODUCTS AND CATALOGS IN THIS ISSUE

Save Time—Just Insert Key Numbers and Mail To:  
American Builder, 79 W. Monroe Street, Chicago 3, Illinois

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Please indicate whether you are

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When you address inquiries direct to manufacturers concerning a new product described here, please mention that you saw it described in American Builder

**NOW**  
**"Century" NU-GRAIN**  
**SIDING IS**  
**SILICONE-TREATED**

**the most weather-resistant, dirt-resistant  
asbestos-cement siding ever offered by K&M!**

The water resistance of the Siliconed surface of "Century" NU-GRAIN Shingles seems unbelievable. It causes water to "ball up" instantly and roll right off. Tests have shown its astounding resistance to sunlight, industrial fumes, ice and snow and below freezing temperatures.

Silicones are an invisible agent which cannot dissolve in water. They penetrate deeply and leave no surface film to peel off or wear away. Water-borne dirt, which can cause streaks under window sills and around other trim does not readily gain a foothold to mar the natural beauty of the shingles.

"Century" NU-GRAIN Shingles are as permanent as stone itself. They will not burn, rot or corrode and never need paint for protection. The distinctive NU-GRAIN shades—green, brown, gray and whitetone—and the realistic wood-grain pattern are designed for a lifetime.

"Century" Shingles are sold by more than 700 distributors. Ask the K&M distributor near you about new Silicone-treated "Century" siding or write to us for complete information.

There are six "Century" Shingles now Silicone-treated. In style # 58: (straight butt line) NU-GRAIN gray, brown, whitetone and green (illustrated); also Shell White with cypress graining. In style # 57: Shell White with cypress and wavy butt line.

**KEASBEY & MATTISON**  
COMPANY • AMBLER • PENNSYLVANIA

America's first maker of asbestos-cement shingles



# ask the *experts* about

- Planning
- Concrete Work
- Framing
- Roofing
- Heating and Plumbing
- Air Conditioning
- Wiring
- Insulation
- Interior Finish
- Power Equipment

## estimating cabinet work

*I would like to know a good way to estimate cabinet work. Can you help me?*

*J. W. S., Pine City, N. Y.*

There are many ways of estimating cabinet work, but the two methods described below are used most extensively.

The majority of large cabinet manufacturers figure their cabinet work on a unit basis. These producers first determine costs of component parts through time studies and other means. The price then becomes so much for a certain unit of a certain size computed on the basis of component parts going into the unit.

Some manufacturers use a method computed on the basis of square foot of front surface area. Unit price per square foot is determined by experience and the case work involved. Naturally, the depth of the case will vary the square foot price. To this square foot price usually is added special features, such as bins,

extra drawers and other items that tend to increase costs.

Other estimating systems can be worked out, but they are always based on the individual's source of cost information.

## storm windows freeze

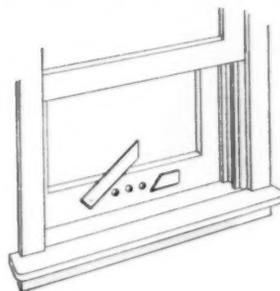
*Moisture collects between the windows and the storm windows of our home. In the winter, the moisture freezes making it impossible to look through them. The windows in question are weather stripped and the house is fully insulated. The house is constructed of brick veneer over frame. What is the reason for this condition and what can I do to remedy it?*

*R. M., Seward, Nebr.*

No doubt you are carrying a considerable amount of moisture within your home for if you did not have excessive condensation on the inside surfaces of the windows, the inside relative humidity would be satisfactory. (You did not state whether or not such moisture collected on the

inside surfaces of the windows as well as on the storm windows.)

The condition you have may be



due to the storm windows' being exceedingly tight which prevents breathing of the vapor to the outside. The rate of vapor flow from the inside through the window to the storm window is greater than that which can escape through the storm window itself. A small amount of ventilation, to overcome this condition, will probably alleviate your moisture problem without increasing the heat loss to a considerable extent. Try small ventilators at the bottom of the storm windows, or re-fit the storm windows so they are not so tight.

*C. E. Lund,  
University of Minnesota*

## best building cost book

*Do you have any literature pertaining to figuring the cost of a new home by the cubic foot method?*

*J. Z., Utica, New York*

We do not have any literature pertaining to figuring the cost of new houses by cubic feet.

We have found the best building cost book to be: *Building Estimator's Reference Book and Vest Pocket Estimator*, by Frank Walker.

Small Homes Council,  
University of Illinois

AMERICAN BUILDER

**GOT** a problem you haven't solved? Can't solve? Haven't the time to solve?

Have you solved a problem with an answer you aren't sure of? Are you doing some particular job—big or little—in a way that you think might be improved?

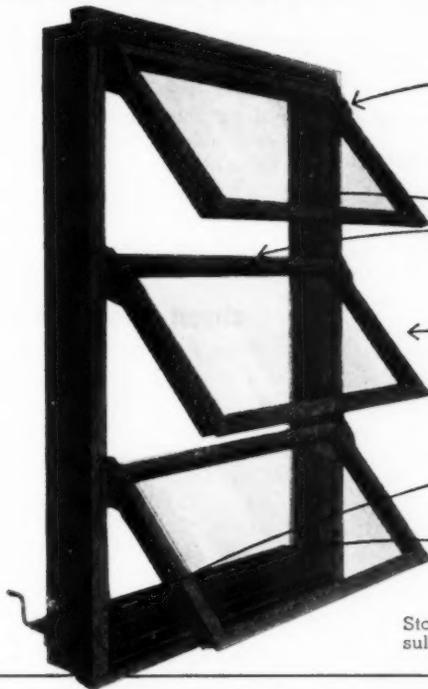
Then "ASK THE EXPERTS"—a group of industry authorities—experts in their fields. They'll give you the answer.

Address your questions to: "Ask The Experts," *American Builder*, 79 West Monroe St., Chicago 3, Ill.

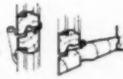
As many questions and answers as space permits will be published monthly in *American Builder*, under the head—"Ask The Experts."

# Gate City

## Perma-Treated Wood Awning Windows



**FIXED HINGE OPERATION** prevents back-splash over the top vent while slanted sash deflect rain.



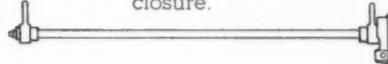
**COMPLETE FACTORY WEATHER-STRIPPING** with Vinyl at head and side jambs; plowed-in Spring Bronze at sill and meeting rails. More than meets air infiltration requirements of the A.W.W.I.



**PERMA-TREATED WOOD** provides protection against rot, fungi, termites, warping and swelling.



**DUAL ACTION HARDWARE** pulls sash in evenly at both sides, prevents torsion and sash sag. Simple, sturdy construction with exceptionally tight closure.



Storm sash interchangeable with inside screens. Sash rabbeted for Insulated Glass also available.

**75 STOCK SIZES** — Complete schedule shown in our Catalogues and Sweet's File



16" Glass width in 14-16-18" heights. 1 to 5 vent windows.



20" Glass width in 14-16-18" heights. 1 to 5 vent windows.



32" Glass width in 14-16-18" heights. 1 to 5 vent windows.



40" Glass width in 14-16-18" heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.



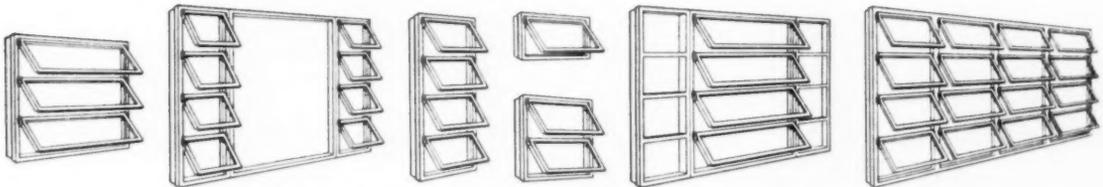
44" Glass width in 14-16-18" heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.



Fixed Side Lights for combining with operating units. 16" glass width. 1 to 5 vents high.



Plate Glass Frames for use with operating units. In widths desired, 1 to 5 vent heights.



Gate City Wood Awning Windows are manufactured in sizes to fit any normal opening, and are easily installed in all types of construction. They combine beautifully with picture windows, and form the ideal window wall and ribbon installation; harmonizing with most every style of architecture.

### Gate City

AWNING WINDOWS

*Perma-treated for Long Life*

"Window Craftsmen for over 40 years"

**GATE CITY SASH & DOOR CO., DEPT. AB-2**  
P.O. Box 901, Fort Lauderdale, Fla.

Gentlemen: Please send complete information on Gate City Wood Awning Windows.

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Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

# NO CRACKS OR LEAKS HERE



Lucke Leak-proof Bath Tub Hangers are DESIGNED to prevent leaks and cracks along the bathtub edges PERMANENTLY. Hundreds of installations have been in service for many years without cracks or leaks or repairs of any kind. When you install Lucke Leak-proof Bath Tub Hangers you have no warranty worries.

- No water damage
- No bathtub settling
- No repair expense

EVERY TUB NEEDS ONE

**WILLIAM B. LUCKE, INC.**  
 P. O. Box 177  
 Wilmette, Illinois

Please send me without obligation, a folder illustrating and describing how Lucke Leak-proof Bath Tub Hangers may be used with various type and size bathtubs.

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..... BUILDER .. ARCHITECT .. PLUMBER .. OTHER

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CITY ..... ZONE .....

STATE .....

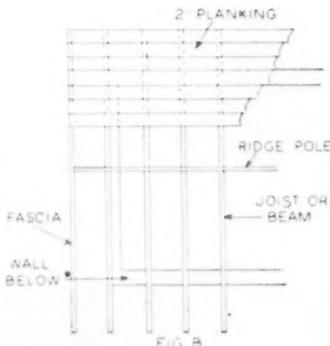
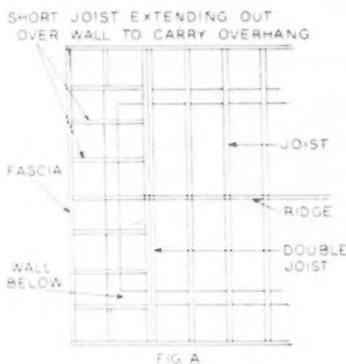
# ask the experts

## framing for a wide overhang

*I plan to build a ranch-type house with a wide overhang. How can I go about building the framing for the overhang if I use 1-inch roof sheathing? Would I have to build the framing in a different way to account for the extra weight if I were to use 2-inch sheathing?*

H. G., Louisville, Ky.

Here are two methods of framing for the overhang of a ranch-type roof. Where 1-inch sheathing is used, it is necessary to carry short joists out over the main walls of the building to carry the overhang.



These short joists are anchored to a double joist over the main part of the house. This kind of structure is shown in Figure A.

In Figure B, 2-inch planking is used for the roof sheathing. With this type of heavier planking, it is

possible to cantilever the overhang just by extending the planking. A fascia board is carried at the ends of the planking if it is desired.

K. Roderick O'Neal, Architect,  
Chicago, Ill.

## circuit breakers kick out

*When I replaced the light bulbs in one of the gymnasiums of our school recently, the circuit breakers kicked out. We have five circuits with five 500-watt light bulbs to the circuit. They have been used since 1938 on five 20-amp circuit breakers.*

*I replaced all the lamps with the same size; that is, I put back 500-watt light bulbs in each socket. This time, however, I used light bulbs manufactured by a firm whose product I had not used previously.*

*When I turned on the lights, they kicked out the circuit breakers. Why did this occur after I replaced the bulbs with ones of the same wattage?*

J. A. S., Arcadia, La.

The difficulty described may be traced to a low voltage condition. Assuming no power-consuming devices have been added to the existing circuits, and that the circuit breakers are mechanically intact, several possibilities exist:

1. If the building supply voltage has dropped, the additional current increase could cause the breakers to kick out.

2. If a bulb of a lower voltage rating than the original was used, an increase in current would result.

A decrease of five volts would result in a four per cent increase in current under the conditions that you stated in your letter. Have your local electric utility check the supply voltage in your building.

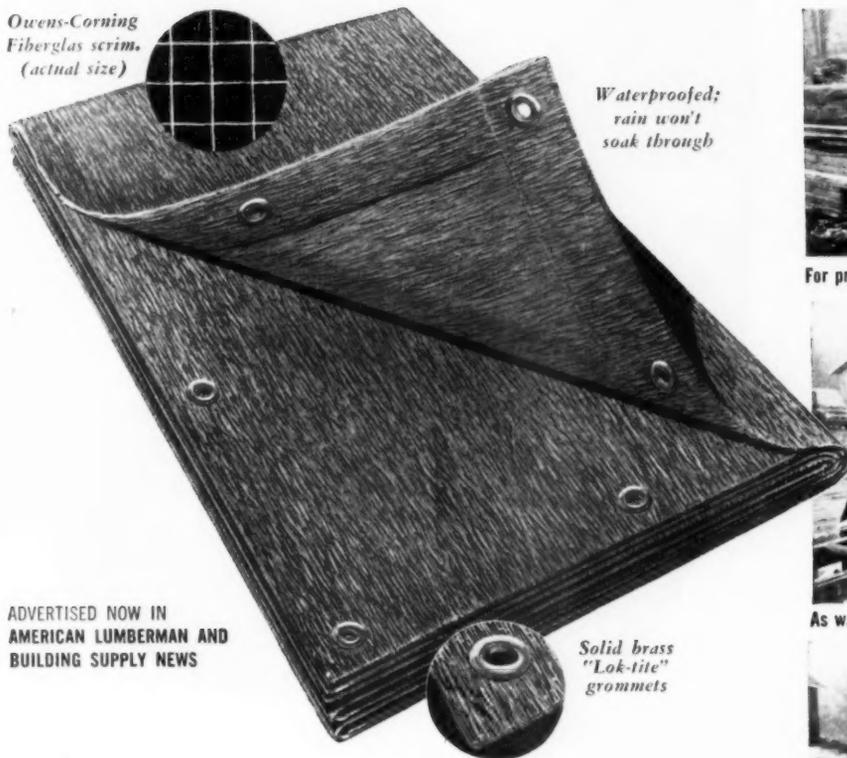
Arthur R. Wallace,  
Consulting Engineer

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AMERICAN BUILDER

# NOW-Angier "Brownskin" Tarps at Half the price you'd expect!

Owens-Corning  
Fiberglas scrim.  
(actual size)



Waterproofed;  
rain won't  
soak through

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Solid brass  
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Here's tarpaulin news that means low-cost outdoor protection on your construction jobs! Rugged, long-lasting "BROWNSKIN" Tarps have all the features of other covers, but at a fraction of the price! There's nothing on the market like these new, extra strong, waterproofed "BROWNSKIN" Tarps.

**Weather-resistant** because they're made of tough, two-ply kraft, impregnated with asphalt; water won't soak through.

**Durable and tear-resistant** because they're reinforced with Owens-Corning Fiberglas scrim of amazing strength.

**Easy to handle** because "BROWNSKIN" Tarps are creped for greater flexibility.

Prove to yourself how these rugged, low-cost "BROWNSKIN" Tarps can give top-notch protection to your equipment and materials in outdoor storage at a fraction of the cost of other tarpaulins. Sizes 8x10, 10x12, 12x15, 15x20, 15x25, and 15x30.

For sample, low prices, and name of your "Brownskin" Tarp dealer write:

ANGIER CORPORATION  
Framingham 24, Massachusetts



For protecting materials outdoors at low cost.



As waterproof shrouds over power tools.



As foul-weather protection for equipment.



Also, Quality Building and Construction Papers:  
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**QUALITY** products

Nothing is more precious to a quality builder than his reputation. Community respect is earned by good workmanship and quality materials—products like R·O·W removable wood windows. They have the charm of carefully milled wood, plus the lift-out feature and pressure-fit construction.

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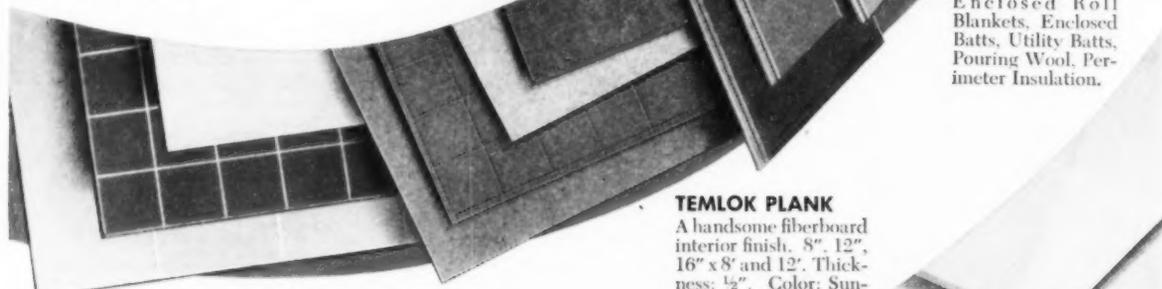
An asphalt-impregnated sheathing for bracing strength and insulation. 2' x 8', 4' x 8', 4' x 9', 1/2" and 25/32" thick.

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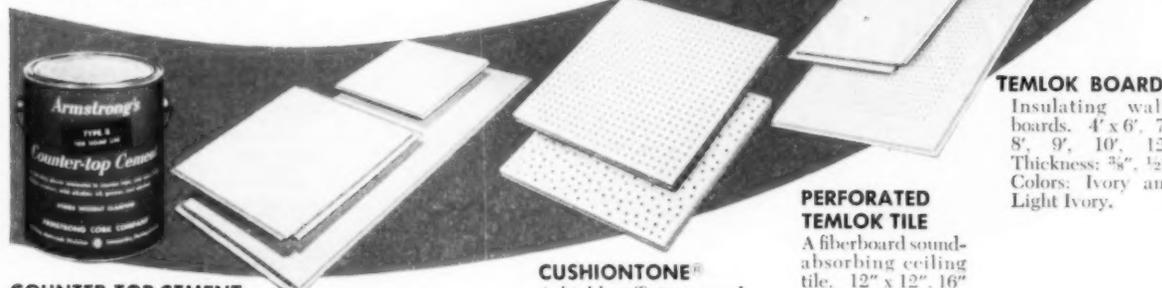
A decorative panelboard with a tough plastic finish. 3 designs, 30 color combinations. 4' x 4', 5', 6', 8', 10', 12', 5/32" thick.

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Three factors contribute heavily to the popularity of Armstrong's Building Materials with builders today. First, the products are good . . . help make strong, attractive homes. Next, they save you money . . . both in material cost and labor time. And finally, the Armstrong name is nationally recognized . . . a valuable plus in selling the finished house. For complete information, see your local lumber dealer or write Armstrong Cork Company, 3504 Rider Avenue, Lancaster, Pennsylvania.



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Unique Design Pure Copper Tank Water Heater  
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**COMPLETE PURE COPPER TANK**  
—for long life!  
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Send your request to nearest sales office, addresses of which are listed at left.

Please send me complete facts about Rheem Coppermatic profits, advertising and promotion.

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OF SUPER-TOUGH NYLON

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**PROTECTUB**  
America's Finest Deluxe BATHTUB PROTECTOR

**NOW Newly Improved For Greater Protection**

- It is made of specially tough corrugated paper with a processed top liner that is water repellent and damage resistant. Comes in two pieces tailored to fit for overall protection.
- **OVER 200,000 INSTALLATIONS**
- **NOTE!** When ordering ask for genuine PROTECTUB by name.
- **PLACE YOUR ORDER TODAY!**
- **MADE TO FIT Cast Iron and Steel Bathtubs**
- **SPECIFY MAKE AND MODEL OF TUB**

If Not Available at Your Local Jobber, Send Your Order to Dept. AB.

**PROTECTUB, INC.** 71 LUDLOW STREET  
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**CMC Job Mixers will save men and money**

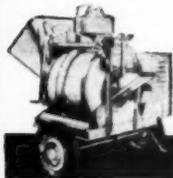


They are built to take it . . .  
**Compact . . . Easy to spot . . . Easy to move**

CMC Job Mixers are the biggest money makers in the mixer field. They are the easiest handled on the job and are perfectly balanced for high speed trailing.

If you want the best with the longest trouble-free performance choose CMC Job Mixers.

3½ to 16 cubic foot models are available to fit any job condition.



3½ S NON-TILT



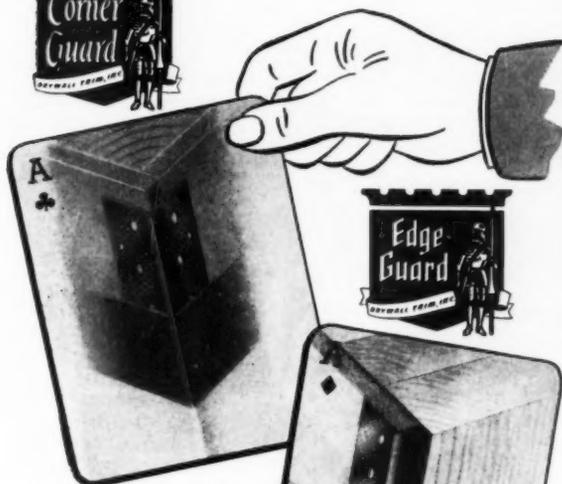
3½ S TILTER

**CONSTRUCTION MACHINERY COMPANY • Waterloo, Iowa**

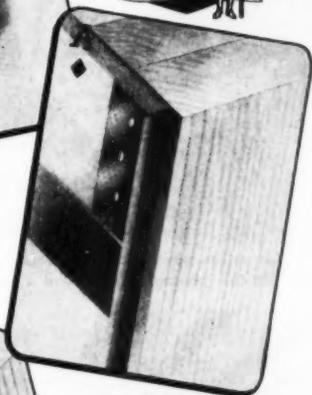
AMERICAN BUILDER

# 4 aces!

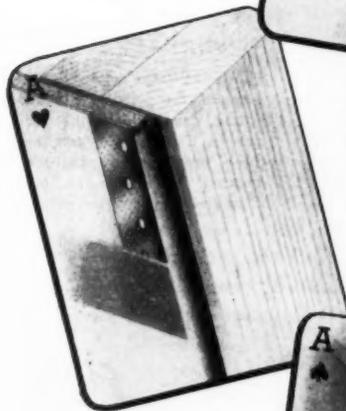
## TOPS in DRYWALL



▲ NO. 220  
CORNER GUARD for external wallboard corners. Nails securely through board to stud. Knurled for good spackle adhesion.

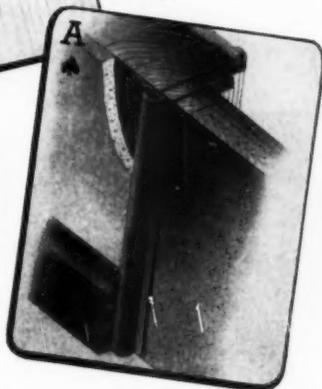


▲ NO. 108  
Square EDGE GUARD. Easily installed at door jamb or window by nailing through board to stud. Knurled for good spackle adhesion. For  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{5}{8}$ " board.



NO. 101 ►  
Round EDGE GUARD Door and window casing. Grips board with spring-tight action. No spackle required around this trim. For  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{5}{8}$ " board in factory-mitred stock lengths.

U.S. PAT. NO. 2,663,390  
(Canada Pat. Pend.)



◀ NO. 106  
EDGE GUARD. Same as No. 108 above except for hemmed edge.

At Building Material Dealers or Write Dept. AB

### DRYWALL TRIM, INC.

2408 N. FARWELL AVE., MILWAUKEE 11, WIS.

APRIL 1954



Completely seals against weather at these important points. ●

The springs of the Silent Glide Sash Balance operate in an aluminum tube that's lined with heavy rayon velour. This new, quiet balance is combined with Triple Seal's famous 1-piece metal jamb covers that give complete seal against the weather, yet permit windows to move up and down at a touch... quietly!

### Save Time and Labor In Installation

Everything needed for one window comes in one package. There's no on-the-job material loss. Triple Seal Silent Glide Sash Balances and Metal Weatherstripping can be applied easier because all fastening points are clearly marked. The tough, aluminum tube that houses the spring balance resists construction damage. No replacement loss before the job is finished!

WRITE FOR COMPLETE DETAILS

**The Weatherproof Products Corp.,  
Waldo Sta. P. O. Box 8498, Kansas City, Mo.**

Gentlemen: Tell me more about Silent Glide Sash Balances and Triple Seal Metal Weatherstripping.

I am a builder  dealer  interested in on-the-job installation  mill-assembled window units

Name.....

Address.....

City..... State.....

## technical guide

for builders and craftsmen

### 'Three-in-one' roof panels simplify exposed beam construction



Particularly adaptable to flat or low-pitch roofs, this roof deck material can be applied quickly. Three men shown in the photograph applied 1,000 square feet in two hours

**T**HIS roof deck slab material is a product designed primarily to facilitate the construction of flat or low-pitched roofs. Produced in sizes of 2 feet by 3 feet, 1½, 2 and 3 inches thick, it is particularly adaptable to homes where the roof beams or rafters are exposed in the rooms below.

These roof slabs are referred to as a three-in-one material because they serve (1) as a roof decking, (2) as roof insulation, and (3) as a prefinished interior ceiling.

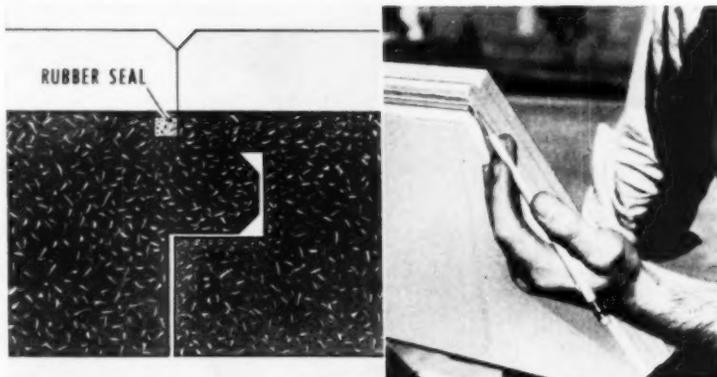
Condensation is taken care of by a vapor barrier laminated between the layers of the roof deck, close to the finished surface. To further seal the deck slab, a rubber gasket is cemented in the joint.

These roof deck units are applied with the long dimension at right angles to the framing members, leaving the tongue edge exposed. End joints are staggered so that adjoining pieces do not fall on the same framing members. The long edges are brought together to a snug fit as successive panels of the roof deck are applied. They are secured

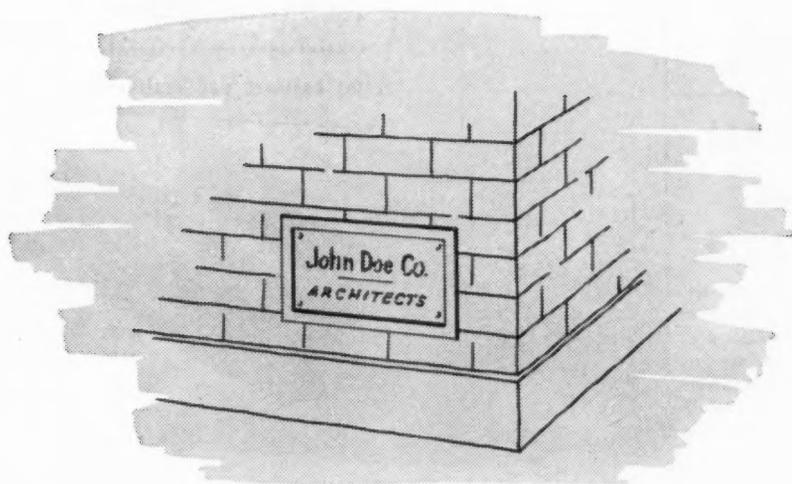
*(Continued on page 66)*



The living room ceiling in this home is the finished surface of the underside of the roof panels. These panels combine three functions in one—roof decking, roof insulation, and a prefinished interior ceiling



Drawing of roof deck joint, at left, shows square tongue-and-groove application, factory-applied rubber vapor seal gasket, and beveled edges on lower (interior finish) surface. Illustrated at right is the vapor seal of resilient rubber which is cemented into the joint. A vapor barrier membrane is laminated between the lower plies of the roof deck, close to the finished surface



## Is Destructive Condensation Jeopardizing Your Reputation?

**S**PECIFYING on a "take-it-for-granted" basis, some architects and builders with their own hands sow the seeds of destruction inside the walls of buildings they are so proud of.

A sturdy, frame house in Pennsylvania, for example, had to be moved. But it was found that the sills had rotted away. Inside the walls was ordinary insulation and no metallic vapor barrier.

A large brick and steel apartment development in the suburbs; a huge housing project in a big city; each caused great expense to its sponsors when ordinary insulation inside walls failed to prevent excess vapor flow, excess condensation formation, resulting in peeling paint and crumbling plaster.

Reputations as well as buildings are guarded by the use of multiple accordion aluminum. Its continuous metal sheets, 500 ft. to 750 ft. long, are impervious to water vapor. Infiltration under flat, stapled flanges is slight.

The scientific construction of multiple layers of accordion aluminum, fiber, and air, minimizes condensation on or within this type of insulation.

Of all heat flow through structural spaces, 50% to 80% is Radiation; 7% Conduction; the rest Convection. Multiple accordion aluminum surfaces have a reflectivity of 97% for Radiation or radiant heat, and an emissivity of only 3%. The aluminum and fiber sheets retard outer and inner Convection. The alternating layers of air spaces have low density and therefore slight Conduction.

The improved\* multiple accordion aluminum, Infra Type 6-Si and 4-Si gives the entire area between joists maximum, edge to edge, uniform depth protection against heat loss and condensation formation. Write for sample and description.

\*Patent applied for

### **COST OF INFRA INSULATION INSTALLED** in new construction between wood joists, material with labor,

**Type 6-Si, under 9½¢ sq. ft.**

**Type 4-Si, under 7½¢ sq. ft.**

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INFRA INSULATION, INC., 525 Bway., New York, N. Y. WOrth 4-2241

1/8" Plaster covers  
**DRYWALL**

**"YES" NU-WALL**  
permanent  
**BONDING PLASTER**

actually, at low cost, in one application, is the "Key" for that preferred plaster finish on all dry-wall materials . . . painted or unpainted. Improves and beautifies dry-wall construction. Profitable to the Trade and Home-Owners.

**BECAUSE**

NU-WALL is easy to use, apply and sell. Saves money in time, labor and material! NU-WALL overcomes relative problems by converting new dry-wall construction to a sturdier durable plaster finish!

**Quotes N. Y. Builder**

"It ordinarily takes 70-80 man-hr. to get a first class job of taping on plasterboard, etc. By putting on a thin coat of "Nu-Wall" bonding plaster, house is taped to stage, ready for plastering in about 6-7 hr. Two plasterers used up a little under 17 man-hr. doing entire house (except closets) with the bonding plaster, etc."

**Quotes Wis. Dealer**

"This type of thin plaster appears particularly suitable for plaster finishes in houses whose window and door trim has insufficient depth or reveal to permit normal type of plaster application." "Our applicator commented on the ease of applying the material and the fact that it did not crack when drying or when sufficient pressure was applied to bend gypsum board."

\*This same NU-WALL restores old painted walls and ceilings!

Write for information to

**NU-WALL MFG. CO.**

923 North 19th Street,  
Milwaukee 3, Wisc.

(Dept. A.B.)

**technical guide**

for builders and craftsmen



This illustration of built-up roof construction shows roof deck, built-up roofing, granules, gravel stop and gutter

(Continued from page 64)

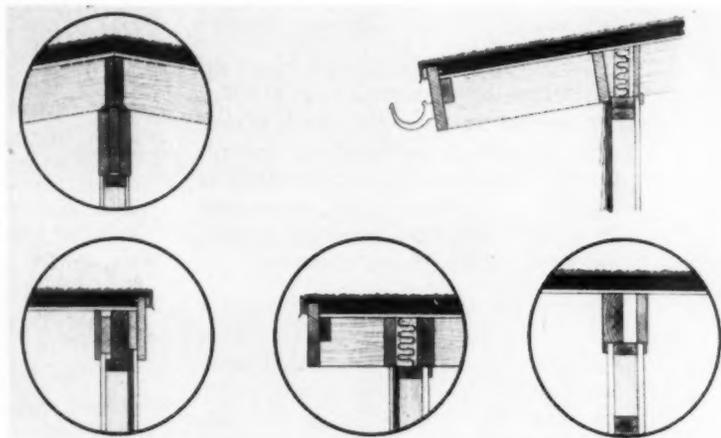
with large-headed galvanized nails spaced five inches on centers. Nailing is started at center bearings.

A pitch or asphalt built-up roof is the simplest method of roofing over a roof deck. This can be applied directly to the top surface. Shingles can also be used, but they need to be applied over building paper and wood nailing strips.



Large-headed galvanized nails, long enough to penetrate the framing members at least 1 1/2-inch, are used to apply the 2x8-foot roof deck sheets

Photographs and data courtesy of the Insulite Division, Minnesota and Ontario Paper Co.



This set of drawings shows construction details for roof deck and built-up roofing. At top-left is the ridge with rafters butted over cover beam. The rafter is tied with a metal strap. Supporting beam is provided below rafters with a spacer block between. Top-right detail shows eave section with gravel stop, edge support for roof deck, spacer and nailing block between rafters. Insulation is carried up to the roof deck material. Bottom-left illustration shows the end wall without overhang. Gravel stop is in place; necessary block, siding and sheathing on exterior and one board on interior wall also are shown. Bottom-center drawing shows end wall with overhang. Gravel stop, edge support for roof deck, spacer and nailing between the rafters and necessary insulation are detailed. Bottom-right is an interior partition detail, showing the rafter, blocking between the members and the continuous trim piece

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*made easy Selling*

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Floor-Leveling Device  
with the 5 Exclusive  
Sales-Making Features

Labels in diagram:  
Heavy 5/16" Steel Top Plate  
Long Jack Handle  
Extra Heavy Jack Screw  
Steel Support Collar  
Top Tube of Special Steel  
Adjustment Holes  
Anti-Rust Paint inside and out  
Rated capacity 8 tons  
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Easy Turning ACME Square Threads on lifting screw  
Extra Adjustment Holes  
Two 3/4" Steel Adjustment Pins held by collars - 200% extra Bearing Strength  
Bottom Tube of Special Steel  
Heavy 5/16" Steel Bottom Plate



Your Customers Like These 5 Features That Mean Ease of Operation, Permanence and a Greater Margin of Safety

**PERMA-JACKS** *Sell and Sell and Sell!*



The floor leveling jack that gained leadership at \$10.95 *now \$9.95*

F. O. B. Cleveland

Thousands of property owners know the ease and convenience of correcting their sagging floors, sticking doors and stopping unsightly plaster cracks, economically and permanently with Perma-Jack. Continuous consumer advertising and sales promotion programs have created demand in your territory for this profit producing packaged utility.

Your jobber has stock on hand. Place your order today and make sure you stock this easy-to-sell profit producer.

- 1** Timken Thrust Roller Bearing for easy operation
- 2** Acme Square Screw Threads, easier turning than ordinary V-threads
- 3** Extra-Heavy Top and Base Plates for durability.
- 4** 2 Extra-Heavy Bearing Pins for positive support
- 5** Anti-Rust Baked Enamel Finish inside and out



Two sizes (Perma-Jack 4'8" to 8'4"—Perma-Jack Special 21" to 36") fit every need.

**The Quality Adjustable Steel Jack-and-Post for Leveling Sagging Floors**

Product of PERMA-JACK Corporation, 1111 E. 200th St., Cleveland 17, Ohio

**BOOTH No. 44**  
**National Hardware Show**



*Bathroom Glamour at Builder Prices!*

**...THE MOST WANTED LINE OF  
FORMICA VANITY-SINK CABINETS**

See how much more Vanity Fair has to offer... in its gleaming, colorful beauty... in its lifetime construction... in its sensible, down-to-earth cost... in its practical, functional styles... in its ample surface room, generous storage compartments and flowing, rounded lines. Three stunning models, nine decorator colors with matching Formica mirror-front medicine chests.

Vanity Fair combines the beauty, color and utility of genuine, beauty-bonded

**FORMICA**

with desirable designs  
for every bathroom  
and every budget.

Available with or without  
sink and fittings.

*National*  
**VANITY CO.**

(DIVISION OF NATIONAL DOOR CO.)

*Imperial*

Twin Pedestal—Knochole Vanity  
Sizes: 66", 72", 84"  
Sink Available: Left or Right.  
Also with two sinks



*Special*

Single Pedestal Vanity  
Size: 27"  
Available: Left or Right Hand

*Vanity*  
**FAIR**



*De Luxe*

Single Pedestal Vanity with Drawer  
Sizes: 36", 42", 48", 54", 60"  
Available: Left or Right Hand

Write for full color brochure and prices

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*Illustrated:*  
 "Vanity Fair" with  
 matching FORMICA  
 medicine chests  
 nationally distributed  
 by National Vanity Co.,  
 Bayonne, N. J.

## *Put the Bathroom on Your Sales Force!*

A Formica Vanity<sup>®</sup> can make your bathrooms a vital working force in the sale of homes. In place of ordinary lavatories that represent expense without glamour, you can add the color, beauty and downright livability of a Formica Vanity for just a few dollars.

Inexpensive standard models are offered in many sizes and styles by reliable manufacturers the country over. A local Formica fabricator will produce custom jobs to your specifications.

Many of the colors in Formica's new Sunrise Color Line were especially planned by famous Raymond Loewy Associates to put new appeal in bathrooms.

Look in your classified phone book under "plastics" for your nearest Formica distributor or fabricator. See samples of the new colors and get full information on other Formica surfaces that will add more sales appeal to your homes.

*Free!*

Bathroom idea folder  
 illustrating many types of  
 Vanities in full color.  
 Write:

**FORMICA**

4514 Spring Grove Ave.,  
 Cincinnati 32, Ohio

In Canada:  
 Arnold Banfield & Co., Ltd.  
 Oakville, Ontario

**DEMAND THIS CERTIFICATION**

*This mark certifies genuine*  
 REMOVE WITH SOAP AND WATER

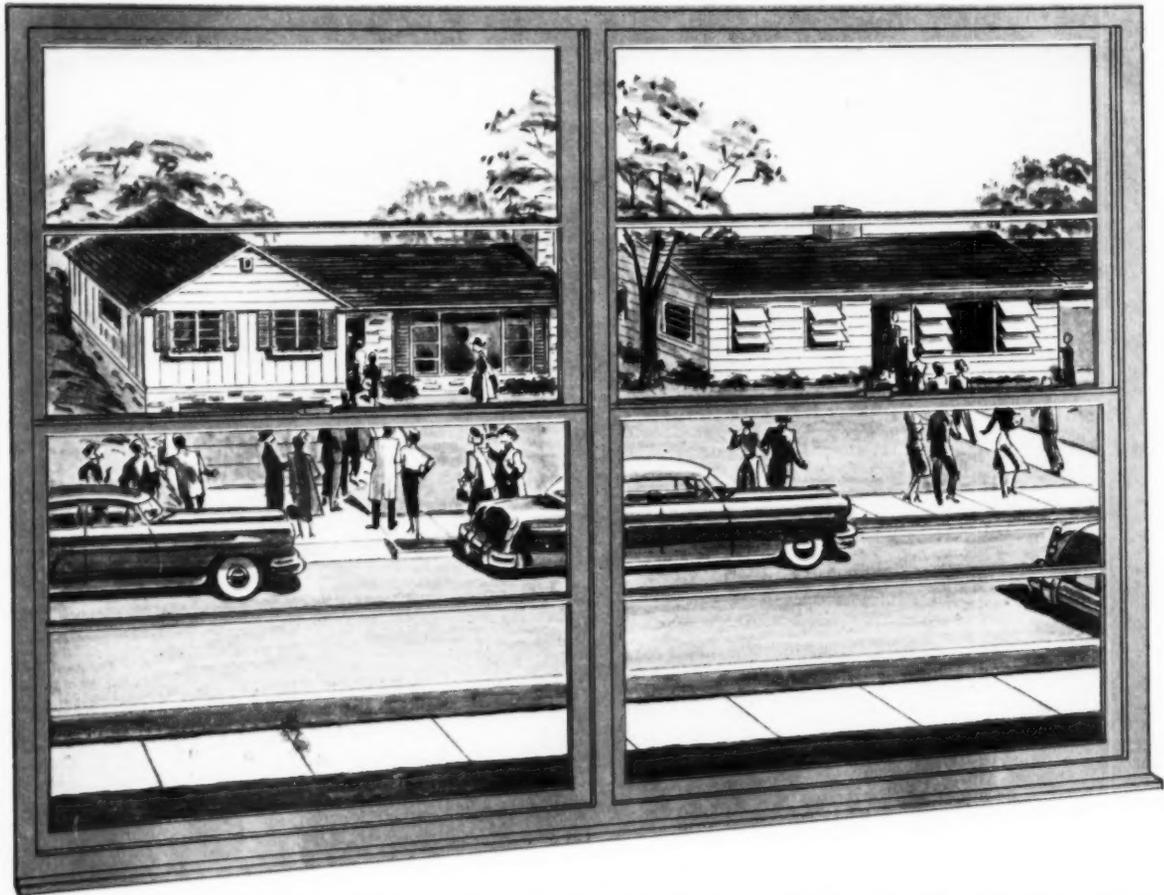
Seeing is believing. If this wash-off identification  
 is not on the surface, it's not FORMICA.

APPOINTMENT TO A MATTER OF TRUST  
 Guaranteed by  
 Good Housekeeping  
 ONE OF ADVERTISED TRADE

Beauty Bonded  
**FORMICA**  
 Reg. U. S. Pat. Off.

Pays in Performance

# HOUSES *SELL FASTER..*



## **EIGHT REASONS WHY YOU SHOULD USE ALUMINUM WINDOWS:**

- 1 PREFERRED BY MOST HOME BUYERS**  
Growing demand by the public provides a real sales advantage.
- 2 ADD VISIBLE SALES APPEAL**  
that can be seen from outside as well as inside.
- 3 FIT ALL STYLES and TYPES of CONSTRUCTION**  
Can be used in ranch, colonial, modern or traditional style houses, with frame, brick, brick veneer or block construction.
- 4 EASY TO HANDLE and INSTALL**  
Light in weight, they're easily installed by one man, saving extensive time and labor on the job.
- 5 NEVER NEED PAINTING**  
at time of installation or after. Cannot rust or rot.
- 6 EASY, TROUBLE-FREE OPERATION**  
Will not swell or warp. Always open and close easily.
- 7 NEUTRAL COLOR**  
harmonizes with any color decor, inside and outside.
- 8 ACCEPTED BY MORTGAGE OFFICERS**  
as a superior, money-saving building product that lowers maintenance costs and enhances resale values.



**INSIST ON THIS SEAL  
FOR YOUR PROTECTION**

**TESTED**

**For  
Quality  
Materials**



**TESTED**

**For  
Sound  
Construction**



**TESTED**

**For  
Strength  
of Sections**



**TESTED**

**For  
Low  
Air Infiltration**



.. when you feature .....

*Quality Approved*

# ALUMINUM WINDOWS

Wherever you go...north, south, east or west...you'll find a definite swing to aluminum windows.

Each year since 1947, more and more houses have been built with these attractive, easy-to-maintain, never-need-painting windows. Each year, more and more builders recognize the tremendous sales appeal they have for home buyers.

If you haven't discovered the selling power of modern aluminum windows, make this test. Build one model house with "old-fashioned" windows. Then, include "Quality-Approved" aluminum windows in a second model house.

You'll soon see which offers the greatest appeal for the home buyer. (One builder reports his first week-end's sales at 16 to 1 in favor of the aluminum windows.) Yes, today's buyer is looking for extra value, extra savings in his new house. He not only wants a house that is modern and up-to-date in every respect, but one that offers low-cost maintenance as well as comfortable living.

Include "Quality-Approved" aluminum windows in the next house you build and see for yourself how they help stimulate sales. You'll also appreciate their many other worthwhile advantages, such as: easier handling, easier installation, no painting problems or expense, no profit-eating service call-backs.

"Quality-Approved" aluminum windows are available for immediate delivery, through many manufacturers, in sizes and styles (double-hung, casement, projected, and awning types) that fit any building plans. All are tested against rigid performance standards. All are approved for quality of materials, for strength of sections, for sound construction, and for low air infiltration.

For additional information consult Sweet's Builders File (Section 3c/ALU) or any of the approved manufacturers listed below, or write us direct at Dept. AB-4.

## *Aluminum Window Manufacturers Association*

74 Trinity Place, New York 6, N. Y.

MEMBERS: Alcosco Products, Inc., Madison, Mich. • All Lite Metal Window Company, Bristol, Pa. • Aluminum Home Products Co., Knoxville, Tenn. • The Wm. Bayley Co., Springfield, Ohio • Coca Steel Products Corp. (Sterling Aluminum Window Division), Chicago, Ill. • Cupples Products Corp., St. Louis, Mo. • Fontron Industries, Inc., Seattle, Wash. • Michael Flynn Mfg. Co., Philadelphia, Pa. • General Bronze Corp., Garden City, N. Y. • Hunter Mfg. Corp., Bristol, Pa. • Metal Arts Mfg. Co., Inc., Atlanta, Ga. • Miami Window Corp., Miami, Fla. • Reynolds Metals Co. (Parts Division), Louisville, Ky. • J. S. Thom Co., Philadelphia, Pa. • Tenn Industries, Inc., Los Angeles, Calif. • Universal Window Co., Berkeley, Calif. • Wera Laboratories, Inc., Miami, Fla. • Windows Corp., Kenil, N. J.



AWNING



CASEMENT



DOUBLE-HUNG



PROJECTED



Check Your  
Saw Blade Costs...

and settle on  
**SIMONDS**  
**SI-CLONE**  
**SAWS**

Put Si-Clone Saws to work and you'll be dollars ahead. You cut faster, get a better finish, and make many more cuts between sharpenings. Low in price yet so well made, they're guaranteed to give you satisfaction. Available in 13 different types of blades up to 12" diameter... including Dado Heads and Carbide-Tipped... to fit all machines. Buy them from your Mill Supply or Hardware Dealer today.

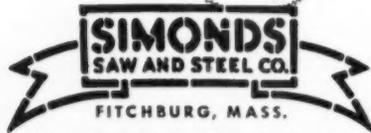
**Rip, Cut-off and Combination Saws:**

6"	1.75
7"	2.00
8"	2.15
9"	2.65
10"	3.15
12"	4.35



Supplied with round or special shape holes for all machines.

**GUARANTEE**  
Made of SIMONDS STEEL fully guaranteed against any defect in material or workmanship.

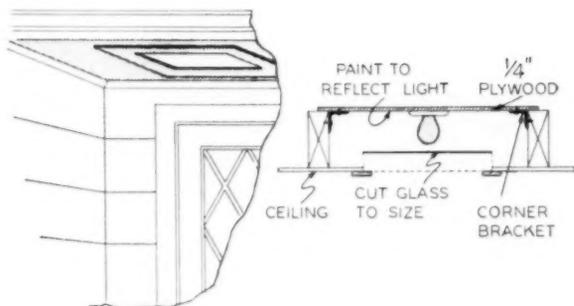


Factory Branches in Boston, Chicago, San Francisco and Portland, Oregon. Canadian Factory in Montreal, Que.

# how would you do it?

*ideas for the man on the job*

## an outdoor ceiling fixture

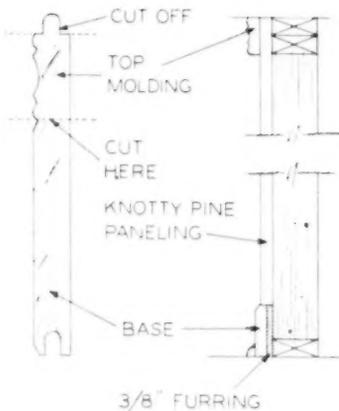


Recess a ceiling fixture at front or back door by cutting a square in soffit at desired spot. Frame opening with 1 1/8-inch stock. Electrical fixture can be of a simple and inexpensive type. Cut glass to required

size and insert through opening by tilting slightly. It is unnecessary to remove glass to change bulbs. Just shift glass to one side.

—A. N. Nelson, Kansas City, Mo.

## improvising baseboard molding

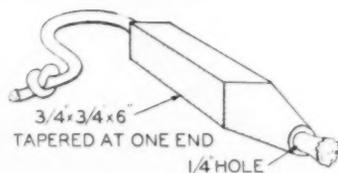


Cut off the molded section of a piece of knotty pine paneling. The portion of the paneling remaining makes an excellent baseboard. Set the baseboard level and nail. If knotty pine paneling is desired on the walls, nail the baseboard to 3/8-inch furring strips. This will allow necessary space so pine wall paneling can be set on top of the baseboard. The molded section of the piece of paneling which was removed can also be used. Rip the molded section to remove the tongue and use the molding to finish off paneling near the ceiling line.

—L. W. Wilson, Cedar Rapids, Ia.

## how to make a brush from a clothesline

Bore a 1/4-inch hole through the center of a piece of wood 3/4 x 3/4 x 6 inches. Taper one end on all four sides. Insert a 12-inch length of sash cord or clothesline. Let about 1/2-inch of the cord stick out the tapered end and tie a knot in the other end. Use this device as a glue brush. When through with the job, cut off the used portion and it is ready for use again. You can use it for paint-



ing, stenciling, lubricating or dusting small objects.

—W. Szucs, Beria, Ohio.

The Gold Seal Nairn Inlaid Linoleum that makes every room look bigger for the money

# "Jackstraw"

TRADE-MARK



"Jackstraw" pattern shown No. K658 Red Vinyl/Top Red Tone Congowall

What's the first thing a prospective buyer looks for in a house? Big, airy, spacious rooms. Give him a big, airy, spacious *look* and you add hundreds of dollars to the value of the house. Lay "Jackstraw" Gold Seal Inlaid Linoleum. Its colorful little Jackstraws draw your eye across the floor . . . make every room look bigger and wider. Its ruggedness and fine quality promise long life. Its resilience practically eliminates clutter. It is *known* from continuous national advertising. And it's the flooring customers go into stores to buy for themselves! The next time you want to "open up" rooms lay "Jackstraw" Gold Seal Inlaid Linoleum. Available by the yard or in 9" x 9" tiles precisely cut for easy installation.

APRIL 1954



Here's the trick to "Jackstraw" . . . color strips that draw your eye across the floor to make rooms look bigger.



Ten color combinations suggest limitless color schemes for every room. Colors are clear all the way through.

"Jackstraw" protects you and your customers with the famous Gold Seal Guarantee of satisfaction or your money back.

**GOLD SEAL**



**Floors  
and  
Walls**

CONGOLEUM-NAIRN INC.  
Kearny, N. J.

© 1954

AB4  
For full information and specifications mail this coupon!

Congoleum-Nairn Inc.  
Builders' Service Department  
Kearny, N. J.

NAME .....

ADDRESS .....

CITY .....

ZONE .....

STATE .....

## AMERICAN BUILDER BLUEPRINT HOUSE

**BUILDERS:**

*Irwin H. Chess & Nat Siegel, Long Island, N. Y.*

**ARCHITECTS:**

*Matern & York, Jamaica, L. I., N. Y.*

**SQUARE-FOOT AREA:**

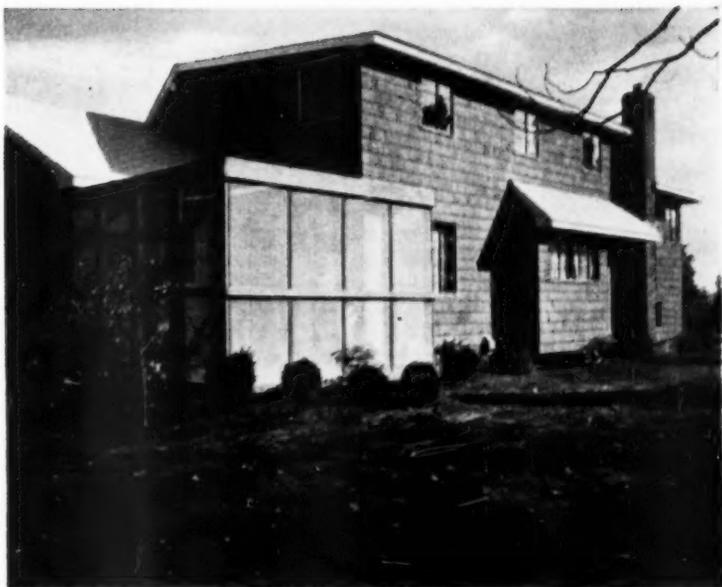
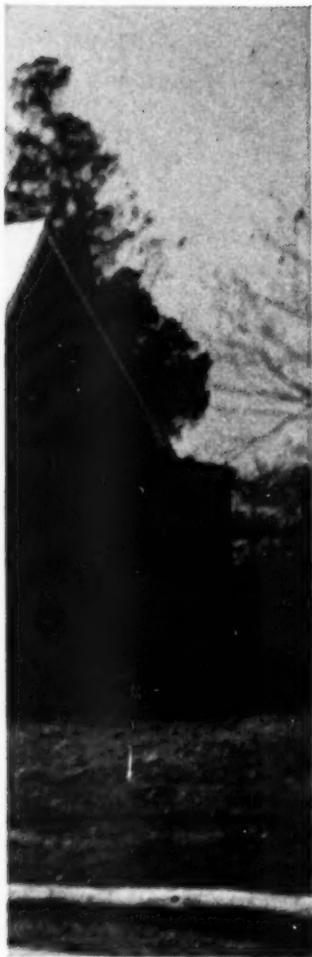
Ground floor, including garage ..... 1,360

Screened porch ..... 144

**COST, including  $\frac{1}{4}$ -acre lot ..... \$22,590**



**split-levels meet  
today's space needs**



Position of doors and windows on the front elevation at left clearly define three levels—entrance, living area and garage, lower bedroom level, and basement (recreation and utility area). Architectural treatment of this four-level house has resulted in ground-hugging lines that set it off advantageously on a level plot. Rear elevation shows dormer for upper bedroom level; features a porch with screened sidewalls and roof. Recreation room below is the same size as the living room; occupies major portion of the basement



**F**or that larger family with modest income the split-level is garnering its share of today's buyers. Economical construction and architectural ingenuity combine to provide maximum livable space at minimum, comparable cost. Basically, this type of construction permits closer and more efficient grouping of rooms with consequent reduction in square foot area of floor.

The "big value" house shown on these pages offers plenty of space and large rooms throughout, but it also overcomes an often-voiced ob-

jection to split-levels by eliminating the need to artificially elevate the grounds. This is done by the simple expedient of pulling out the garage from under the living room and attaching it to the side of the house. Even though this house has four levels, the designers achieved exterior architectural lines that make it appear at home on a level lot.

With a ground floor area of 1,360 square feet, this house has eight rooms plus garage, porch, utility room, dinette and children's study. Four bedrooms, two baths

and the study are on the two upper levels, while the lower areas contain living room, dining room, kitchen, dinette, entrance-foyer, recreation room, utility room, garage and porch. Eleven closets are provided.

House is placed on poured concrete walls and footings. Crawl space is provided under the ground floor area. Walls and floor construction are of frame with brick veneer along a portion of the front wall. Balance of exterior walls is covered with 24-inch long wood shingles exposed 10 inches to the weather.



Extra height is added to the large living room by depressing the floor one step below the entrance and dining room level

The kitchen-dinette area is one large room separated into its various functions by placement of furniture



Sidewalls and roof of the porch are screened with all framing members exposed



76

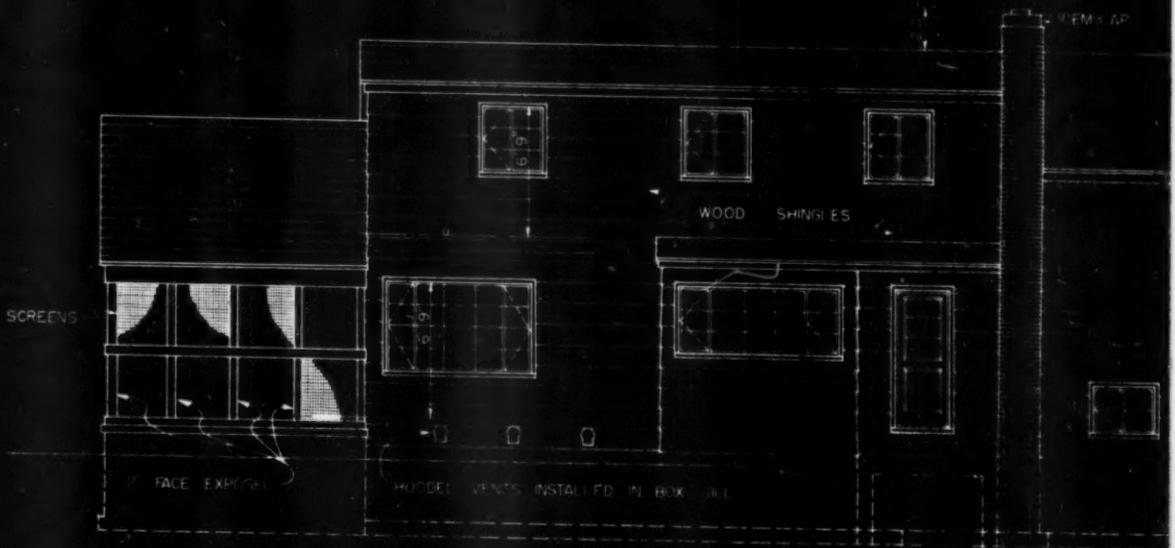
#### BRAND NAME PRODUCTS USED

Armstrong linoleum  
 Bristol garage door  
 Copco steel casement windows  
 Eastern wood products cabinet  
 Fasco exhaust fan  
 Federal hot water boiler  
 Formica counter top  
 Franklin Orleans tile  
 Hotpoint kitchen appliances  
 Minneapolis-Honeywell heat controls  
 Schlage hardware  
 Sealtite bath cabinet  
 Kohler bath fixtures  
 U.S. Gypsum drywall  
 U.S. Gypsum insulation

For complete one-quarter-inch working plans of this house, write American Builder Home Plan Service, 79 West Monroe Street, Chicago 3, Illinois.

See Gatefold Blueprint  
 for working drawings  
 —quantity list of materials

AMERICAN BUILDER



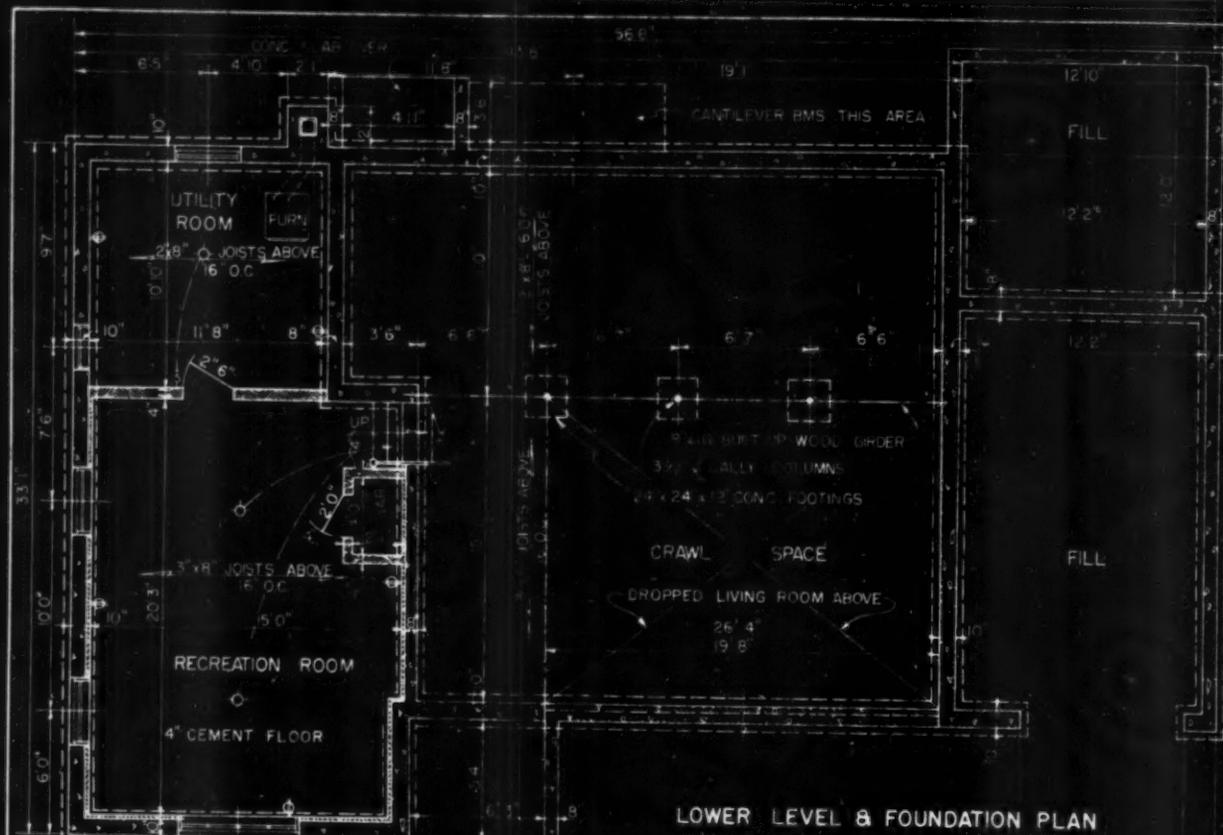
REAR ELEVATION

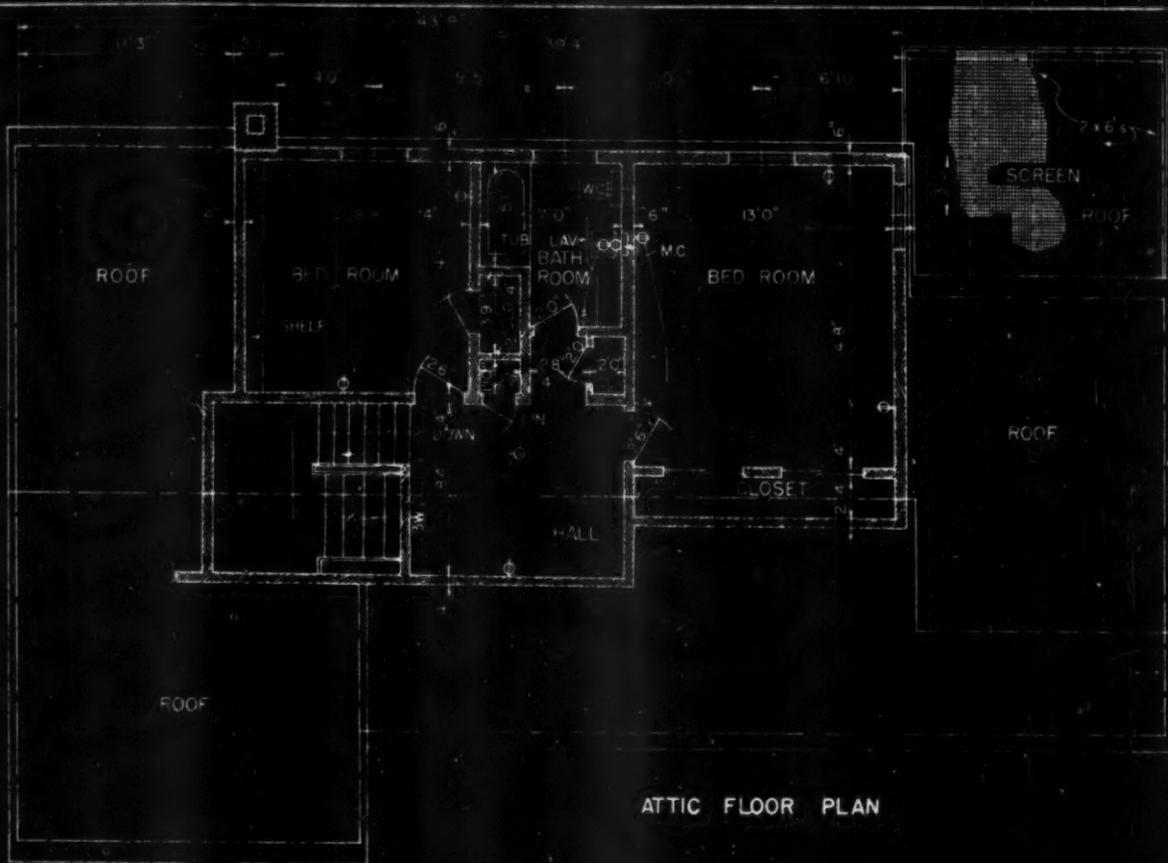


FRONT ELEVATION

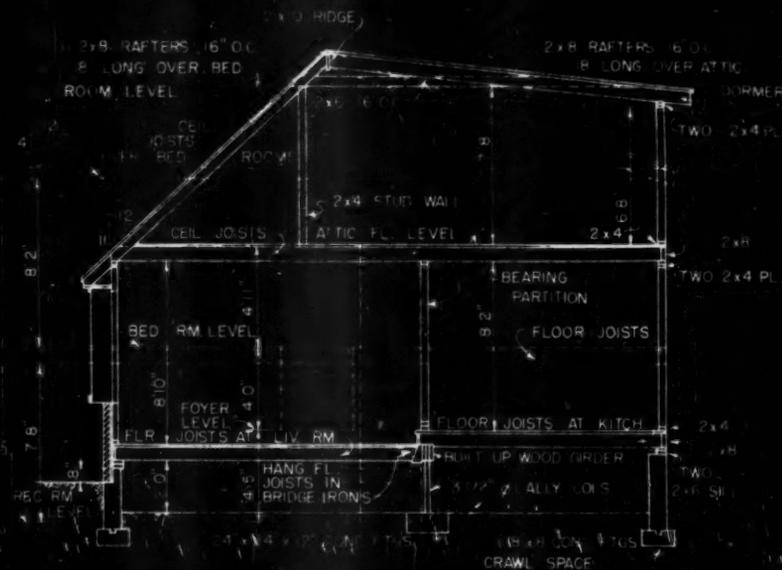
SCALE 1/8"=1'-0"

← PULL OUT FOR FLOOR PLAN →





ATTIC FLOOR PLAN



CROSS SECTION

SCALE 1/8" = 1'-0"

NOTE ALL DOORS ARE 6'8" HIGH UNLESS OTHERWISE NOTED

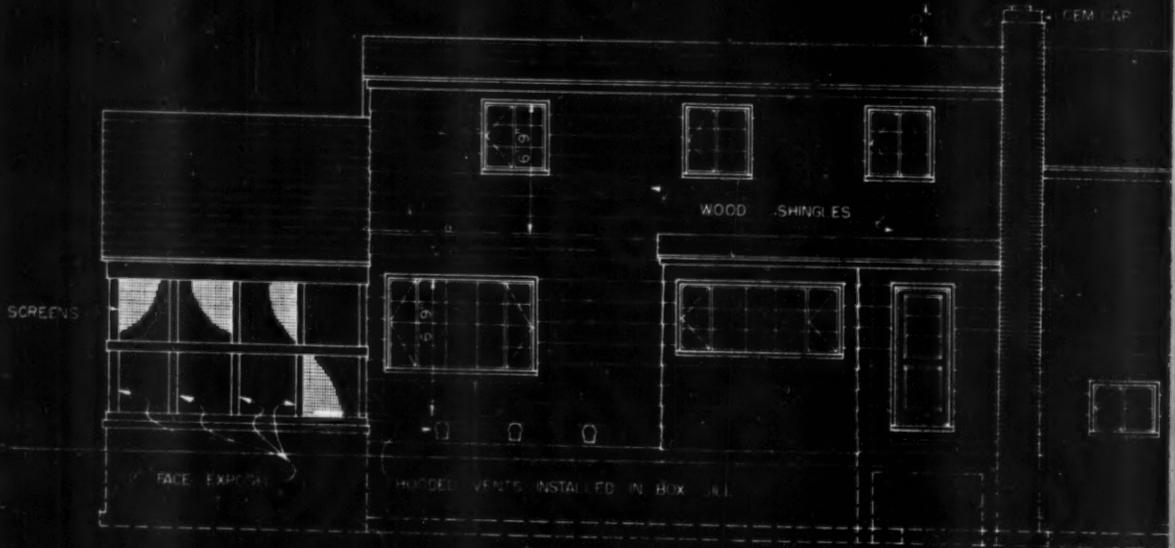
EXTERIOR DOORS ARE 1 3/4" THICK  
 INTERIOR DOORS ARE 1 3/8" THICK

DESIGN NO. A.B. 206

AMERICAN BUILDER BLUE PRINT SERIES  
 DESIGNED BY

MATERN & YORK ARCHITECTS  
 JAMAICA L.I., N.Y.

Simmons-Boardman Publ. Corp. 79 W. Monroe St., Chicago 3, Ill.



REAR ELEVATION



FRONT ELEVATION

SCALE 1/8" = 1'-0"

← → PULL OUT FOR FLOOR PLAN

# Quantity List of Materials

## For American Builder Blueprint House No. AB 206

Matern & York, Architects

### General Information

House — Type	frame
Area	1,360 sq. ft.
Cube	30,080 cu. ft.
Average height taken for cube was 20 feet	
Garage — Area	Included
Porch — Area	144 ft.

### Excavating

Trench for foundation	265 lin. ft.
Chimney and column footings	4 — Total 16 cu. ft.
Excavation for basement	90 yards and crawl space

### Cement Work

Foundations	1,200 cu. ft.
Concrete work	1,520 cu. ft.
Platform and front stoop included	
Thickness	4"
Anchor bolts	5 doz. — 1/2"x8"
Waterproofing	300 sq. ft.
Foundation vents	6

### Masonry

Type	brick
Walls	105 sq. ft. of 4" veneer
Window Sills	wood
Chimney	2x2x21' high
Flue lining	12" square
Cap	cement
Miscellaneous	2 bricked-in planter boxes required

### Iron Work

Lally columns	3 — 3 1/2" dia. 2'6" high
Metal railings	2 wrought iron in living room

### Millwork

Windows	casements, fixed, pivoted
Fixed	18 lts. — 20"x18"
	1 lt. — 52"x34"
	1 lt. — 34"x24"
	1 lt. — 52"x48"
	1 lt. — 56"x36"
Casements	2 lts. — 14"x34"
	2 lts. — 14"x24"
	4 lts. — 14"x48"
	2 lts. — 16"x36"
	12 lts. — 14"x36"
	1 lt. — 54"x24"
Fixed and casement	10 lts. — 16"x24"
	2 lts. — 14"x32"
Exterior doors	wood
Rear entrance	1 — 2'8"x6'8"x1 3/8" single panel with glazed 3 lt. opening over panel
French doors	2 — 2'8"x6'8"x1 3/8"
Garage Doors — upward acting	8'x7'
Exterior millwork	
Shutters	3 pair
Louvers	2 — 24"/36"
Interior doors, including jambs and trim	
	1 — 2'8"x6'8"x1 3/8"
	6 — 2'6"x6'8"x1 3/8"
	9 — 2'0"x6'8"x1 3/8"
	3 — 6'0"x6'8"x1 3/8"
	1 — 2'8"x6'8"x1 3/8"
	3 — 2'0"x6'8"x1 3/8"
	8 — 2'0"x6'8"x1 3/8"
Sliding wardrobe doors	
Special Interior Millwork	
Stairs	1 set risers to attic bedrooms
	1 set risers to recreation room
	1 set risers to second level
	Plus: Newel, ballister, and railing

### Carpentry

Beams and Girders	1 built-up 8"x10" girder—28' long
	1 built-up 6"x12"x10'
	1 built-up 6"x12"x12'
Foundation Plates	360 lin. ft. 2"x6" exterior plates
	75 lin. ft. 2"x4" interior plates
Joists	16 — 3"x8" — 16'
	21 — 3"x6" — 16'
	21 — 3"x8" — 16'

Joists (cont'd)	10 — 2"x8" — 18'
	8 — 2"x8" — 14'
	16 — 2"x6" — 14'
	40 — 2"x8" — 12'
	9 — 2"x8" — 16'
Bridging	500 lin. ft. 1"x3"
Studding and Plates	1,500 lin. ft. 2"x4" plate
	400 pcs. 2"x4" — 8'
	50 pcs. 2"x4" — 10' studs

### Ceiling Joist and

Roof Rafters	25 — 2"x6" — 18' for attic
	73 — 2"x8" — 18'
	11 — 2"x6" — 18'
	11 — 2"x6" — 8'
	5 — 2"x6" — 14' for screen
	patio rafters

### Framing Lintels

	14 lin. ft. (built up) 4"x12"
	2 — 4"x4" — 8' posts
	2 — 2"x8" — 10'
	10 — 2"x6" posts 8' long

### Subfloor

	2,200 sq. ft. to cover
--	------------------------

### Roof sheathing

	2,000 sq. ft. to cover
--	------------------------

### Side wall sheathing

	2,300 sq. ft. surface measure
--	-------------------------------

### Side wall materials

	wood shingles
--	---------------

### Flooring — Hardwood — area to cover

	1,260 sq. ft.
--	---------------

### Softwood — area to cover

	300 sq. ft.
--	-------------

### Exterior Material — Soffits

	200 lin. ft. 1"x8"
--	--------------------

### Eaves

	135 lin. ft. 1"x6"
--	--------------------

### 126 lin. ft. 1"x8"

### 30 lin. ft. 1"x10"

### Porchas

	18 — 30"x30" screens
--	----------------------

### 28 lin. ft. 1"x6" ribbon

### 144 sq. ft. screen wire

### over rafters

### Miscellaneous

	2 hardwood carpenter-built steps (riser and tread) to sunken living room
--	--

### 1 set kitchen cases plus 10 lin. ft. lower case and work top

### 7 lin. ft. pantry case

### 1 — 5'6" lavatory case, Formica top

### Insulation — None shown

	walls would require 2,700 sq. ft. 2" thick blanket;
--	---

### ceiling would require 1,300 sq. ft.

### Sheet Metal

### Gutters — None shown

	would require 132 lin. ft.
--	----------------------------

### Downspouts — None shown

	would require 1 — 18'
--	-----------------------

### 2 — 15'

### 3 — 10'

### Flashing

	G.I. at chimney plus approx. 72 lin. ft. required at roof and siding conjunction points
--	---

### Roofing

### Type

	Asphalt Shingles
--	------------------

### Area

	14 squares
--	------------

### Special built-up over dormer

	6 squares
--	-----------

### Interior Walls & Ceilings

### Area to be covered

	4,900 sq. ft. walls
--	---------------------

### plus 1,800 sq. ft. of ceiling

### Nothing included for recreation and utility room wall and ceiling covering.

● This quantity list will be subject to variation depending on the common practice in various sections and municipalities of the country, the techniques of individual builders, the types of materials available locally and cost factors. The list published here is a suggested one, complete enough so that it can be used in arriving at a reasonably accurate estimate of the quantities and cost of materials that will be required to complete the structure. It was prepared by experts at the Edward Hines Lumber Co., Chicago.

# Home Builders' Guide to

## A BIBLIOGRAPHY ON THE BUSINESS OF HOME BUILDING

Compiled and edited by  
Eugene Adhemar Tilleux and  
Leonard G. Haeger, A. I. A.

# Reference



Earl W. "Flat-Top" Smith



Leonard G. Haeger

## Foreword . . . .

Each day the home builder is confronted with a variety of questions arising from the complex nature of this nation's home building industry. Answers to these questions represent a troublesome job for the industry, and the need for a simple tool to assist the builder in finding the answers has long been recognized. This bibliography, therefore, is the first effort in the history of the industry to provide individual builders with a single, comprehensive listing of source material.

The "Home Builders' Guide to Reference Material" has been prepared by the Construction Department and Research Institute of the National Association of Home Builders as a modest beginning in what is believed to be an important task—the development of a home builders' technical reference handbook.

This bibliography is organized on the basis of 14 parts, each of which reflects a step in the home building process. Reference material generally identified with these subjects is listed under each part.

Acknowledgement is made for the assistance of Eugene A. Tilleux in the preparation of the bibliography. Particular credit should be given to Earl W. Smith, builder of El Cerrito, California, whose insistence over the years on the need for a reference of this kind has finally led to its compilation.

*Leonard G. Haeger, A.I.A.,  
Director, Construction Department  
and Research Institute,  
National Association of Home Builders*

**EDITOR'S NOTE**

*Hundreds of books, pamphlets and brochures have been written about all phases of home building, but the home builder never has had a comprehensive guide to tell him what these publications said, who wrote them and where they could be obtained. American Builder is pleased to present in printed form this first compilation of published source material, which was prepared for the home building industry by the National Association of Home Builders. Still in preparation by NAHB is an index to this bibliography. It will be published by American Builder upon completion.*

# Material

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<b>PART II. LAND ACQUISITION, LAND PLANNING AND LAND DEVELOPMENT</b>		(a) Analysis of the Industry . . . . .	801-215
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# PART I

## (a) Theory and Principles of Housing Market Analysis

- (1) "THE REAL ESTATE MARKET"—Chapter 8 (pages 142-167) of PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weiner and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: \$5.00

This chapter considers: 1. Market Competition; 2. Types of Real Estate Markets; 3. Tendency Toward Uniform Price; 4. Criteria of an Efficient Market; 6. Function 1: Meeting Sudden or Temporary Changes in Space Requirements; 7. Controlled versus Competitive Prices; 8. Function 2: Adjusting Supplies of Space to Changed Requirements; 9. Function 3: Land Use Determination; 10. Competitive Forces and Social Control; 11. The Market in Operation; 12. Factors Conditioning Cyclical Variations; 13. Early Stages of the Cycle; 14. Later Stages of the Cycle; 15. Is there a National Cycle of Real Estate Activity?; 16. The Real Estate Cycle and the Business Cycle; 17. What of Future Real Estate Cycles?

- (2) "THE HOUSING MARKET"—Chapter 11 (pages 302-345) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: \$6.50

This chapter considers: 1. The Housing Stock; 2. The Market for Building Lots; 3. Rental Market; 4. Existing Stock of Rental Units; 5. Marketing Rental Dwellings; 6. Rental Housing Origins; 7. Market for Homes; 8. Value Stratification and Filtering; 9. Surplus as a Requisite; 10. Change in Quality; 11. Need for New Construction; 12. Surplus as a Check on Production; 13. Surplus at the Bottom; 14. Accelerated Depreciation; 15. Time Dimension in Filtering; 16. Market Experience with Filtering; 17. Long-Run Possibilities; 18. Filtering Cannot Be Forced; 19. Conclusions on Filtering; 20. Cyclical Fluctuations; 21. Market Indicators; 22. Seasonal Fluctuations; 23. Cyclical Sequence; 24. Recent Housing Market History; and 25. Manifestations of Instability.

- (3) "THE NATURE OF THE REAL ESTATE MARKET"—Chapter XIII (pages 221-242) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Development of Market Organization; 2. Nature of the Real Estate Market; 3. The Price of Real Estate; 4. Other Characteristics of the Price of Real Estate; 5. Sources of Information; 6. Distinction Between Demand and Need; 7. The Demand Factors; 8. Population Changes; 9. What is a Household?; 10. Qualitative Characteristics of Demand; 11. Wage and Employment Conditions; 12. Financing as a Factor of Demand; 13. Abnormal Conditions; 14. The Supply of Properties; 15. More Intensive Use of Existing Properties; 16. New Construction; 17. Construction Loans; 18. Holdings of Financial Institutions; 19. Agencies in the Real Estate Market; 20. Licensing of

Brokers; 21. Maintenance of Broker Standards; and 22. Heterogeneous and Fluctuating Character of the Real Estate Market.

- (4) "THE BEHAVIOR OF THE HOUSING MARKET"—Chapter 7 (pages 175-206) of AMERICAN HOUSING: PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. SOME CRUCIAL FACTORS IN THE HOUSING MARKET; a. The Variability of Demand; b. The Stability of Supply; 2. FLUCTUATIONS IN THE BUILDING AND MARKETING OF HOMES; a. The Pattern of Building and Real Estate Cycles; b. What Influences the Cycle; 3. THE PROBLEM OF PRICE ADJUSTMENT; a. Slow Movement of Housing Prices; b. Price Stickiness and the Violence of the Building Cycle; c. Price Stickiness and Housing Surpluses; 4. CAN MARKET MALADJUSTMENTS BE LESSENE?; 5. SUMMARY.

- (5) "PRICE FLUCTUATIONS AND REAL ESTATE CYCLES—Chapter XIV (pages 243-262) of REAL ESTATE ANALYSIS; by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. The Record of Building Cycles; 2. Real Estate Prices; 3. Rapidity of Rise in Recent Years; 4. Analysis of Recent Price Increases; 5. Increasing Volume and Rising Prices; 6. Deed Recordings; 7. Fluctuations in Deed Recordings; 8. Land Prices; 9. Apartment House Prices; 10. Commercial and Office Buildings; 11. The Nature of Cycles; 12. The Real Estate Cycle; 13. Relationship between Real Estate and Business Cycles; 14. War and Cycles; 15. Demand and Supply; 16. Behind Supply and Demand; 17. The Importance of Public Confidence; 18. Jerry Building; 19. Speculation in Real Estate; and 20. Value and Price.

- (6) "THE MECHANICS OF THE HOUSING MARKET"—Chapter 8 (pages 207-224) of AMERICAN HOUSING: PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. SPECIAL PROBLEMS OF THE HOUSING MARKET; a. Matching Houses to People; b. Problems of Valuation and Pricing; c. Problems of a Divided Market; 2. COMPLEXITY OF HOUSING TRANSACTIONS; a. Peculiarities of Real Estate Ownership; b. Title to Real Estate; c. The Cost of Real Estate Transactions; 3. HOW HOUSES ARE MARKETED; a. The Real-Estate Broker; b. Costs of Distribution; c. Other Types of Distributing Organizations; 4. SUMMARY.

- (7) "DEMAND FOR HOUSING"—Chapter 4 (pages 87-122) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Company, Inc., New York, Toronto, London, 1949.—533 pages; price: \$6.50.

This chapter considers: 1. The Quantity of Demand for Housing; 2. Marriages; 3. Death and Divorce; 4. Migration; 5. Sharing of Dwellings; 6. Population and Demand; 7. Elasticity of Demand; 8. Measuring the Quantity of Demand; 9. Qualitative Aspects of Demand; 10. Tenure; 11. Recent History of Home Ownership; 12. Basic Forces Affecting Tenure; 13. Custom; 14. Occupation; 15. Age and Family Status; 16. Financial Status; 17. Relative Costs; 18. Other Forms of Tenure; 19. Type and Size; 20. Style; 21. Location; 22. Price and Rent; 23. Testing the Quality of Demand; and 24. Housing for Unattached Adults.

- (8) "THE MARKET FOR RESIDENTIAL LEASEHOLDS"—Chapter 5 (pages 91-119) of URBAN REAL ESTATE MARKETS: CHARACTERISTICS AND FINANCING by Ernest M. Fisher, Columbia University; Financial Research Program; Studies in Urban Mortgage Financing; published by National Bureau of Economic Research, 1819 Broadway, New York 23, N. Y., 1951.—186 pages; price: \$3.00

This chapter considers: 1. Characteristics of the Residential Leasehold Estate; 2. Characteristics of the Market for Residential Leasehold Estates; 3. Behavior of the Residential Rental Market; 4. Reaction of Rising Incomes; 5. Characteristics of a Seller's Market; 6. The Market in Transition; 7. Characteristics of a Buyer's Market; 8. The Effects of Rent Control on the Residential Rental Market; and 9. Summary.

- (9) "THE MARKET FOR HOMES IN FEE"—Chapter 3 (pages 38—60) of URBAN REAL ESTATE MARKETS: CHARACTERISTICS AND FINANCING by Ernest M. Fisher, Columbia University; Financial Research Program; Studies in Urban Mortgage Financing; published by National Bureau of Economic Research, 1819 Broadway, New York 23, N. Y., 1951.—186 pages; price: \$3.00

This chapter considers: 1. Percentage of Homes Owner-Occupied; 2. Influences Affecting Percentage of Home Ownership; 3. Length of Tenure of Owner-Occupied Homes; 4. Characteristics of the Home Ownership Market; 5. Characteristics of a Buyer's Market; 6. Measurement of Foreclosure and Surrender Rate in a Buyer's Market; 7. Transition from a Buyer's to a Seller's Market; 9. Market Changes and Price Movements; and 10. Effects on the Volume of Home Building.

- (10) "SURVEYING THE MARKET" (for Subdivisions)—Chapter 8 (pages 67-73) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: \$5.75

This chapter considers: 1. Introduction; 2. Effects of the Depression in the '30's; 3. Importance of Surveys and Planning; 4. Dr. Fisher's Survey of "Real Estate Subdivision Activity and Population Growth in Nine Urban Areas"; 5. Information Essential to Proper Analysis of Market for Subdivisions; 6. N.A.R.E.B. Survey of Who Buys and Why; 7. Improved vs. Unimproved Lots; and 8. Customary Front-Foot Prices and Widths.

- (11) "REAL ESTATE MARKET ANALYSIS"—Chapter 9 (pages 168-

177) of **PRINCIPLES OF URBAN REAL ESTATE** by Arthur M. Weimer and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: \$5.00.

This chapter considers: 1. Importance of Market Analysis; 2. Extent and Character of the Market; 3. Demand Forces; 4. Supply Factors; 5. Relative Prices—Catalytic Agents; 6. Position of the Cycle; and 7. Need for Caution in Reaching Conclusions.

(12) **"MOBILITY AND MIGRATION AS FACTORS IN HOUSING DEMAND"** by E. Everett Ashley, 3d; In *Housing Research*, October 1953, pages 1-7; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

**ABSTRACT.** The declining rate of family formation has focused attention upon its probable impact upon the volume of new residential building. This article examines the importance of factors other than family formation upon the demand for new housing. It presents evidence that migration and mobility can be important elements in determining the volume of new construction. The report, prepared as a staff project, is illustrated by two charts and seven tables.

(13) **"HOW IMPORTANT ARE CONVERSIONS IN THE CURRENT HOUSING SCENE?"** by Benjamin Lipstein; In *Housing Research*, Spring 1952, pages 1-14; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

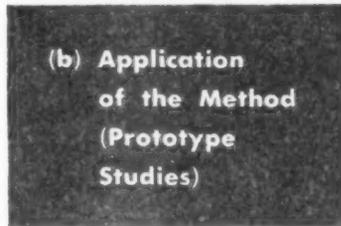
Includes a consideration of: 1. Introduction; 2. Summary of Results; 3. What is a Conversion?; 4. What is a Dwelling Unit?; 5. Annual Volume of Conversions and of New Rental Housing; (a) Baltimore Area; (b) Norfolk Area; 6. Characteristics of Converted Units; (a) Added facilities—and their cost; (b) Location; 7. Characteristics of the Structures Containing Converted Units; (a) Type of structure; (b) Age of structure; (c) Race of occupant; (d) Overcrowding; 8. Negative Conversions; 9. Characteristics of Negative Conversions; (a) Location; (b) Age of structure; (c) Race of occupants; (d) Rental level; 10. National Implications; and 11. Reliability of Estimates on Conversions.

**ABSTRACT.** Changes in the housing supply are the result of new construction, conversion of existing structures, and losses from demolition, disasters, or reconversions. Good information is available only on new residential construction. To fill this gap in our information HHFA awarded a research contract to the Bureau of Labor Statistics, U. S. Department of Labor, to study the feasibility of measuring conversions and demolitions on a current basis. Pilot studies were made in the Baltimore and Norfolk-Fortsmouth areas. This article highlights some of the findings with regard to the conversion aspect of the problem. The research was conducted by Mr. Lipstein under the direction of H. E. Riley, Chief, Division of Construction Statistics, BLS. Arthur Germand was HHFA staff technician on the project.

(14) **"WHY PEOPLE BUY THE HOUSES THEY DO"** by Edward T. Paxton; In *Housing Research*, October 1952, pages 1-7; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Summarizes the results of a personal-interview survey of home-owner occupants in the upper-, middle-, and lower-third income

groups who purchased dwellings in 1949 and the first half of 1950 in nine of the Nation's big metropolitan areas and in a representative and widely distributed sample of smaller cities and towns. This article reviews some of the chief findings of the survey, such as family size, age, and income characteristics of buyers of homes in different price classes, and the reasons for selecting the type of home purchased. The survey was conducted by the Survey Research Center of the University of Michigan under a contract with HHFA's Division of Housing Research. Includes a consideration of: 1. The Survey; 2. Who were the Buyers?; 3. Why were these People in the Market?; 4. Why Buyers Decided not to Rent; 5. What did They Want and What did They Get?; (a) Number of stories; (b) Material; (c) Basement; (d) Number of Rooms; 6. The Prices Paid; 7. Were the Buyers Satisfied?; and 8. In Summary.



(31) **HOUSING IN FRONT ROYAL VIRGINIA, FACTS AND TRENDS**—Prepared and published by The American University, Washington, D. C., 1946.—93 pages, mimeographed; price: not stated. Order copies from The American University, Washington, D. C.

The work includes: 1. Summary of Analysis; 2. The Housing Market Area; 3. The Economic Background; (a) Significance of economic background; (b) Economic background of Front Royal Town; (i) Manufacturing; (A) American Viscose Corporation; (B) Other industries; (ii) Tourist trade; (iii) Retail trade; (iv) Construction; (c) Front Royal's "Tributary" area; (i) Agriculture; (ii) Wholesale trade; (iii) Mining and quarrying; (d) Summary; 4. Housing Demand; Population—Households; (a) Population; (b) Number of households; (c) Estimated income in Front Royal; (i) Trend of income payments in Warren county; (ii) Estimated Warren county incomes—a check; (iii) Income in the Front Royal housing market; (iv) Aggregate and average family income in Front Royal; (v) Estimated distribution of income among Front Royal households in 1950; (d) Estimated total demand for housing in Front Royal in 1950; (i) Tenancy versus ownership; (ii) Probable rental levels; (iii) Probable sales prices; (e) Cost of living; 5. Housing Supply; (a) Supply as of 1950; (i) Tenure and occupancy; (ii) Type of structure and size of unit; (iii) Year built; (iv) Condition of units and structures; (v) Price of housing; (vi) Summary; (b) Building since 1940; 6. Local Market Activities; (a) Current condition of the market; houses versus families; (i) Vacancies; (ii) The level of rents and sales prices; (iii) Doubling up and overcrowding; (iv) Real estate activity; (b) Market prospects; (i) Summary of need; 7. Production capacity; (a) Capacity of the local building industry; (b) Building materials—availability and cost; (c) Labor—availability and cost; (d) Sites and raw land—availability and cost; (e) Construction money and financing the buyer; (f) The local tax structure; (g) Community controls; 8. The Next Four Years; (a) Filtration; and 9. Appendices. The work also includes two maps and seven charts.

**ABSTRACT.** This analysis was undertaken by a group of students in a course in housing offered at the American University, in Washington, D. C., in cooperation with the National Housing Agency, and taught by Glenn H. Beyer, Director of the Market Research Division, Program Planning Branch, of N.H.A. Members of the class who actually compiled the information and data necessary (in field trips to Front Royal, as well as from many other sources) and who undertook the analysis and prepared the final report are: Milton L. Coven, Robert O. Davenport, V. Rebecca Finkelstein, Mary B. Gesser, A. Stanley

McGaughan, Ernest W. McIntosh, Corrienne K. Robinson, J. Hugh Rose, Henry Schechter, and Nathan H. Schein.

(32) **METROPOLITAN SAN DIEGO HOUSING SURVEY—JUNE 1948**—Prepared and published by Institute of Public Opinion, San Diego State College Foundation, 1948.—200 pages; mimeographed; price: not stated. Order copies from Institute of Public Opinion, San Diego State College Foundation, San Diego, California.

Includes a consideration of: 1. The Questionnaire; 2. Organization and Procedure; 3. Validity and Reliability; 4. Survey and Statistics; (a) Living conditions; (i) Private housing; (ii) Public housing (b) Tenant rents—purchase price of owner-occupied dwelling units; (c) Occupation and income; (d) Private single dwelling units for sale; (e) Families now looking for other dwelling units; (f) Families who may look for other dwelling units in the future; (g) Summary; 5. Supplementary Statistics.

**ABSTRACT.** This work includes 126 tables and a folding diagrammatic map of the San Diego community areas. Metropolitan San Diego experienced a very marked increase in population during the World War II period, almost doubling in size between 1940 and 1948. During this period San Diego acquired one of the largest public war housing developments on the Pacific Coast. Decisions which would promote the best interests of the people of metropolitan San Diego had to be made with regard to the disposition of this war housing; and with regard to other housing matters. The cities of San Diego, Chula Vista, and National Vista joined with the U. S. Public Housing Administration in sponsoring an analysis of the social and economic characteristics of the people living in the metropolitan area. The report was prepared largely by Dr. Oscar J. Kaplan, Director, Institute of Public Opinion, Suzanne Seabrook, Guy Simmons, and John E. Westrick assisted in the management of the project. Dr. Clarence G. Osborn, of San Diego State College, served as Chairman of the policy-making committee governing this survey. Particularly helpful assistance was given by Wayne F. Daugherty, former Regional Economist of the Public Housing Administration and by Robert B. Pitts, his program planning assistant.

(33) **GREATER SEATTLE HOUSING MARKET SURVEY**—Prepared by Bayard O. Wheeler and Edith Dyer Rainboth, under the direction of the Bureau of Business Research, College of Business Administration, University of Washington, of which N. H. Engle is Director; published by the University of Washington Press, Seattle, Washington, in 1948.—192 pages; price: not stated. Obtain copies from The University of Washington Press, Seattle, Washington.

The work includes: 1. Introduction; 2. Demand for Housing; (a) Total demand; (b) Market tests of demand; 3. Price of House; (a) New and used houses; (b) Home owners and tenants; (c) Cash buyers; 4. Down Payment; (a) Down payment and price; new and used houses; 5. Monthly Payments; (a) Monthly payments and price; new and used houses; 5. Price of House Related to Down Payment and Monthly Payments; (a) Down payment and price of house; (b) Monthly payments and price of house; 7. Income of Families Planning to Buy or Build; (a) Comparison with income of all families in Greater Seattle Area; (b) Home owners and tenants; (c) New and used houses; 8. Income Related to Price of House, Down Payment and Monthly Payments; (a) Price of House and Income; (b) Down payment and income; (c) Monthly payments and income; 9. Location Preference; (a) Areas within and outside the City of Seattle; (b) Comparison of areas by income and price of house; (c) New and used houses; (d) Mobility of the housing market; 10. Preference in Housing Characteristics; (a) Type of construction; (b) Number of bedrooms and bathrooms; (c) Room requirements, basement, fireplace, and garage; (d) Type of heating; (e) Type of heating and choice of house; (f) Heating fuel;

(g) Heating fuel and price of house; 11. Length of Residence in Present House and in Seattle; (a) Residence in present house; (b) Residence in Seattle; 12. Degree of Satisfaction with Present House; 13. Net Market; 14. The Rental Market; (a) Gross rent; (b) Income and gross rent; (c) Type of structure preferred; (d) Number of bedrooms preferred; 15. Housing Inventory, Rental Rates, and Family Income; (a) Number of dwelling units and type of structure; (b) Monthly rent; (c) Number of rooms; (d) Number of persons per room; (e) Income of all families in Greater Seattle; (f) Occupation, industry, and class of worker; 16. Veterans in the Housing Market; (a) Housing plans; (b) Price of house; (c) Income of families planning to buy or build; (d) Size of family; 17. Summary; 18. Appendix A: Detailed Tables; 19. Appendix B: Glossary; 20. Appendix C: Methodology.

**ABSTRACT.** This survey was sponsored by The Mayor's Emergency Housing Committee, of which F. B. McAbee was Chairman. The Project Advisory Committee was headed by George W. Coplen, Chairman, and August L. Zellmer. In actual survey operations Mr. Ende was assisted by Mrs. Katharine Beaumont, Robert W. Gibson, Helen R. Potter, Gilbert L. Johnston, and Monroe G. Sirken. The Technical Advisory Committee included Mimer Baker, Joseph Cohen, Gene M. Conger, Joseph Demmery, Stuart E. Dodd, Leonard Ludwin, Robert O'Brien, Guy E. Basketh, and Calvin F. Schmidt. Valuable contributions to the survey were also made by Robert G. Seymour and Marilyn Druck.

**(34) HOUSING NEEDS IN GREATER KALAMAZOO** by Julius T. Wendzel and Eugene C. McKean; published by The W. E. Upjohn Institute for Community Research, American National Bank Building, Kalamazoo 4, Michigan, in December 1948.—23 pages, mimeographed; price: not stated. Order copies from The W. E. Upjohn Institute for Community Research, 709 South Westnedge Avenue, Kalamazoo, Michigan.

Includes a consideration of: 1. Summary; 2. Purpose; 3. Method; 4. Population and Family Formation; (a) Population growth; (b) Cyclical pattern; (c) Families; 5. Families and Housing Needs as of July 1948; (a) Vacancy needs; (b) Housing available; (c) The replacement market; (d) The backlog of housing needs, July 1948; 6. Future Development of Housing Needs; 7. Summary of Housing Need and Related Building Rates; (a) Estimates tentative; 8. Significance of Findings.

**ABSTRACT.** This report, based in part on background studies of Kalamazoo housing made by Dr. Raymond L. Hightower, professor of sociology at Kalamazoo College, while assisting with the survey, disclose the need in Greater Kalamazoo (in 1948) of 5,000 new dwelling units. This need results from two basic trends: (1) for several decades the population of Greater Kalamazoo has been increasing much faster than that of the nation; and (2) for some years the rate of new home building in greater Kalamazoo has been relatively low.

**(35) THE DEMAND FOR NEW HOUSING IN KALAMAZOO COUNTY: 1951-1960**, by Julius T. Wendzel and Eugene C. McKean; published by The W. E. Upjohn Institute for Community Research, 709 South Westnedge Avenue, Kalamazoo, Michigan, August, 1951.—14 pages; mimeographed, spiral binding; price: not stated. Order copies from The W. E. Upjohn Institute for Community Research, Kalamazoo, Michigan.

Includes a consideration of: 1. Summary; 2. The Demand Estimates; (a) Factors influencing new housing demand; (i) County population growing rapidly; (ii) Income prospects good; (b) Calculation of demand estimates, 1951-60; (i) Dollar demand for new housing; (ii) Demand in terms of dwelling units; (c) Comparison of estimates; (i) Estimates compared with past building rates; (ii) Estimates compared with housing needs; 3. Variation in Demand; 4. Local Action and New Housing Demand; (a) Ex-

panding demand; (b) Minimizing demand variations.

**ABSTRACT.** The following conclusions result from the survey: (1) The demand for new housing is apt to average high and to follow a rising trend through the decade of the fifties; (2) Appraisal of short-run influences on new housing demand in relation to the generally rising trend suggests a relatively stable demand for new housing in Kalamazoo County during the decade ahead; and (3) Local action can contribute toward a maximum level of new housing demand and toward minimizing an potential recession in such demand. Besides the authors, the W. E. Upjohn Institute for Community Research includes: Dr. Harold C. Taylor, Winona L. Swope, Melba E. Murphy, Dr. Charles C. Gibbons, Henry C. Thole, Edith R. Brown, Samuel V. Bennett, Jack E. Jordan, and Catherine C. Douglass.

**(36) HOUSING SURVEY OF GREATER PORTLAND—OCTOBER 1949**—Prepared as of October 1949 and published in March 1950 by Dan E. Clark II and Associates.—89 pages; price: not stated. Copies probably are available from Dan E. Clark II and Associates, Oregonian Building, Portland 1, Oregon, or from the City of Portland, Oregon, which sponsored the survey.

The work includes: 1. Map of Greater Portland Area; 2. Condition of Housing; (a) The general picture; (b) Occupancy characteristics; (c) Rent and income; (d) Income and occupants; (e) A Qualitative inventory; 3. Reaction to Housing; (a) Satisfaction and adequacy; 4. The Housing Market; (a) Plans to move; (b) Purchase price planned; (c) Down payment planned; (d) Monthly payments planned; (e) Income and assets; (f) Construction features; (g) Housing demand; (h) Where will they move, and why?; (i) The rental market; (j) Disposition of owned homes by families planning to move; (k) Factors which influence choice of location in which to live; 5. Financial Facts; (a) The financial picture; (b) Liquid assets; (c) Income expectations of all families; (d) Conclusions; 6. Methodology; (a) Selection of fields of inquiry; (b) Listing of dwelling units; (c) Selection of sample; (d) Interviewing and processing of interviews; (e) Preparation of report; 7. The Statistics; (a) How to read the report; (b) Reliability of estimates; (c) Sampling variation tables; 8. Families in Public Housing; 9. Glossary; and 10. Interviewing Schedule.

**ABSTRACT.** This work, which includes 92 tables and 11 figures, is an inventory of housing and an analysis of housing needed. With the outbreak of World War II, population and industry within the Greater Portland area expanded at an unprecedented, and sometimes alarming rate. While Portland prospered through this war-born migration of workers and industry, it also suffered from a lack of adequate housing for its newly-arrived population. Stop-gap measures were adopted to meet this problem. Single dwelling units were converted into multiple-type structures. The Federal Government erected 18,500 temporary war housing units. Trailer camps and motels flourished. Hotel rooms became permanent living quarters. The war's end afforded little immediate relief. Although several thousand workers left the area, there was no mass exodus. The housing problem continued and was further aggravated by the Vapnot disaster which erased 6,900 dwelling units from the housing market. The outlook for the future was darkened by the prospect of early removal of remaining temporary housing units. By mid-1949, it was felt that the acute phase of the housing shortage had been somewhat relieved by widespread construction of new housing. In order to plan a long-range program for adequate, permanent housing, this survey was undertaken to provide reliable information about the condition of existing housing, the probable future demand for housing, and the financial ability of families to meet their particular housing needs. The survey was directed by Dan E. Clark II, J. Roy Bardsley, and N. Robert Heyer. Seymour Fiekowsky was project statistician. Research Consultants were Dr. Chilton R. Bush of Stanford University, Dean Clifford Weigle of the University of Oregon, and Dr. Gordon Sabine of the University of Oregon.

**(37) A SURVEY OF HOUSING IN PORTLAND, OREGON**—Prepared as of October 1949 and published about July 1950 by Dan E. Clark II and Associates.—119 pages, mimeographed; price: not stated. Copies probably are available from Dan E. Clark II and Associates, Oregonian Building, Portland 1, Oregon, or from the Housing Authority of Portland, for which the study was made.

The work includes: 1. Map of Greater Portland; 2. Map of Major Substandard Areas; 3. Foreword; 4. Summary Highlights; (a) Dwelling unit characteristics; (i) Occupancy; (ii) Adequacy; (iii) Race; (iv) Condition; (v) Tenure; (b) Family characteristics; (i) Adequacy and tenure; (ii) Density; (iii) Family composition; (iv) Income; (v) Sub-families; 5. The Statistics; (a) Table 1. Summary characteristics of surveyed dwelling units; (b) Table 2. Characteristics of privately owned occupied dwelling units by race, adequacy, and tenure; (c) Table 3. Contract and gross monthly rent by race and adequacy of privately owned dwelling units for tenant occupied dwelling units; (d) Table 4. Gross monthly rent by race, condition, and basic facilities of privately owned dwelling units for tenant occupied dwellings; (e) Table 5. Characteristics of two or more person families in privately owned dwelling units by race, adequacy, and tenure of dwelling; (f) Table 6. Annual income of two or more person families by number of minors in privately owned dwelling units by race, adequacy, and tenure of dwelling; (g) Table 7. Characteristics of two or more person families with and without sub-families by adequacy of dwelling; 6. Technical Appendix; (a) Methodology; (i) Sampling variation tables for samples A and C; (ii) Sampling variation tables for sample B; and 7. Glossary. (The "glossary" section is merely a reference to pp. 79-87 of the "Housing Survey of Greater Portland" report, which is item (36) of this reading list.)

**ABSTRACT.** This report is designed as a supplement to the "Housing Survey of Greater Portland October 1949" which item (36) of this reading list. In addition to the 4 percent sample on which the parent report was based and which forms the backbone of the present report, a more intensive sampling of housing was made in an area designated by the Housing Authority as the "major substandard area." This is known as "Sample B." The total Greater Portland Area is known as "Sample A." The Greater Portland Area outside of the Major Substandard Area is known as "Sample C." Robert Heyer, Pacific Northwest Manager for Dan E. Clark II and Associates, served as director of the survey.

**(38) RECENT TRENDS IN THE HOUSING MARKET OF PITTSBURGH AND ALLEGHENY COUNTY** by Max Nurnberg; published by Allegheny Conference on Community Development, 508 Magee Building, Pittsburgh 22, Pennsylvania, June 1950.—96 pages, mimeographed; price: not stated. Order copies from the Allegheny Conference on Community Development.

Includes a consideration of: 1. Summary; 2. Introduction; 3. The New Housing Supply of 1949; (a) The volume of construction; (b) Rate of local expansion behind nationwide averages; (c) The location of new housing; (d) More emphasis on rental housing; (e) Repairs, modernizations, and conversions; (f) Few demolitions; (g) Construction costs far from stabilized; (h) Prices and rents of new construction; 4. Housing Inventory as of January 1, 1950; (a) Net addition in Pittsburgh 6.7% in Allegheny County 10.6%; (b) The significance of this expansion; (c) Existing occupancy conditions; (i) Vacancies few; (ii) Owner-occupancy increasing; (iii) Much unfit housing still in use; 5. The Overall Housing Need; (a) The purpose of need estimates; (b) The components of the housing need; (i) Increase in population; (ii) Needed rehabilitation or replacement of unfit shelter; (iii) Need for an adequate vacancy reserve; (c) The total housing need; 6. The Housing Demand; (a) General demand data; (b) The demand for owned homes; (i) The demand supported by incomes; (ii) Ad-

instrument for savings; (iii) Buying intentions; (c) The demand for rental housing; (i) The rents prevailing in 1949; (ii) The number of families able to rent; (iii) The intentions to rent; (iv) The potential demand; (d) The demand backlog at the end of 1949; 7. Easier Financing; (a) General mortgage market conditions; (b) Financing facilitated by government assistance; (i) Increasing influence of FHA operations; (ii) Expansion of GI-loan guarantees; 8. The outlook for the remainder of 1950; (a) The volume of new private housing; (b) Public assistance to low-rent and medium rental housing; (c) Urban redevelopment; (d) Repair and rehabilitation work; (e) Construction costs and prices; (f) Incomes and savings; (g) Conditions of the housing demand; (h) Financing; (i) Conclusions.

**ABSTRACT.** This work includes 20 tables and appendices, and two graphs. Changes in the local housing market subsequent to the issuance, by the Allegheny Conference on Community Development in January 1949, of "A Housing Program for Pittsburgh and Allegheny County," and the uncertain outlook for residential construction, suggested the need for more recent data. The present report was therefore prepared in order to present available evidence on the (June 1950) current volume of construction, housing needs, and housing demand for the benefit of those who depend upon such data.

- (39) **A SHORT-TERM FORECAST OF THE HOUSING MARKET, JACKSONVILLE, FLORIDA** by Reinhold P. Wolff, Director, Bureau of Business and Economic Research, University of Miami, Coral Gables, Florida, with the assistance

of Professors Martin Deutsch, Joseph H. Young and Allen Chester, and of David K. Gilgoly. The project was sponsored by the Housing and Home Finance Agency, Division of Housing Research, and was generally supervised by HHFA by Ernest H. Jurkat and E. Everett Ashley, 3d. Published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in June 1953.—65 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Scope and Object of the Study; 2. General Description and Economic Characteristics of the Jacksonville Area; 3. Methodology; 4. Housing Trend; 5. Population Trend; 6. Establishment of New Households by Marriage; 7. Families Without Their Own Households; 8. Economic Conditions; (a) Employment and income; (b) The mortgage market; 9. Vacancy Rates, History, and Present Estimates; 10. Determination of Market Balance; 11. Forecast of Total Housing Demand, 1951-1955; (a) Forecast of normal demand; (b) Forecast of minimum demand; (c) Forecast of maximum demand; 12. Inventory and Forecast by Parts; (a) Inventory and Forecast by type of structure and exterior; 13. Inventory and Forecast by Area; 14. Inventory and Forecast by Race; 15. Inventory and Forecast by Home Ownership and Rentals; 16. Inventory and Forecast by Cost-Classes; (a) Owner-occupied homes; (b) Rentals (tenant-

occupied units); 17. Appendix; (a) Method of making intercensus interpolations of dwelling units; (b) Analysis of the growth trend of dwelling units, Duval County, 1920-1950; (c) Method of intercensus interpolation of population in Duval County; (d) Analysis of the growth trend of population; (e) Forecast of normal demand, 1951-1955; (f) Forecast of minimum demand, 1951-1955; (g) Forecast of maximum demand; (h) Population of State of Florida, 1920-1950; (i) Review by American Marketing Association, Advisory Committee on Research.

**ABSTRACT.** This monograph, with its five charts and 44 tables, discusses an aspect of a low-cost technique for local housing-market analysis. Interest in the availability of more precise methods of determining present and prospective demand for shelter has been growing steadily in the housing field, with an increasing awareness among thoughtful civic leaders that the resolution of local housing problems can best be accomplished if at the outset there is a competent analysis of the current housing situation. Therefore, HHFA entered into a research contract whereby the University of Miami (Florida) undertook an experimental short-term forecast of the housing market in a medium-size industrial community to test the feasibility of applying simple population forecasting techniques to housing market analysis. Jacksonville, Florida, was selected for the study. This selection provided an opportunity for coordinating results with those of a companion analysis on the characteristics of the mortgage market in a medium-size city, published as HHFA Housing Research Paper 23: *Residential Mortgage Financing, Jacksonville, Florida, First Six Months of 1950*, which is listed as item (874) of this reading list.

## PART II

### (a) Land, Land Acquisition, and Land Planning

- (51) **LAND ECONOMICS; PRINCIPLES, PROBLEMS AND POLICIES** by Roland R. Renne, Montana State College; published by Harper & Brothers, New York and London, 1947.—736 pages; price: \$5.00.

The several Parts and Chapters of this work cover the following topics: **PART I: BACKGROUND AND PERSPECTIVES;** 1. The Field of Land Economics; **PART II: PRINCIPLES OF LAND UTILIZATION;** 2. The Supply of Land; 3. The Demand for Land; 4. Land Appropriation; 5. Economic Processes in Land Utilization; 6. Land Rent and Income Distribution; **PART III: MAJOR LAND USES;** 7. Agricultural Land; 8. Forest Land; 9. Recreational Land; 10. Mineral Resources; 11. Water Resources; 12. Transportation; 13. Urban Land; **PART IV: LAND USE PROBLEMS AND POLICIES;** 14. Land Tenure and Tenancy; 15. Land Valuation and Credit; 16. Land Taxation; 17. Conservation of Land Resources; **PART V: PLANNING AND CONTROL OF LAND USE;** 18. Planning the Use of Land; and 19. Future Control of Land Use.

- (52) **LAND ECONOMICS** by Richard T. Ely and George S. Wehrwein; published by The Macmillan Company, New York, N. Y., 1940.—512 pages.

Includes a consideration of: 1. Land and Population; 2. Land as Nature; 3. Land as Space; 4. Land as Property; 5. The Economics of Land Utilization; 6. Agri-

## LAND ACQUISITION, LAND PLANNING, and LAND DEVELOPMENT

cultural Land; 7. Agricultural Land Tenure and Soil Conservation; 8. The Utilization of the Arid Lands; 9. Forest Land; 10. The Environment and Recreational Land; 11. Water Resources; 12. Mineral and Power Resources; 13. Urbanization and Urban Land; 14. Conservation and Social Control over Land; A Summary; and 15. Bibliography.

- (53) **"LAND FOR HOUSING"—Chapter 1 (pages 13-37) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS;** The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. **THE AVAILABILITY OF LAND;** a. Urban Lot Vacancy; b. Decline of Central Cities; 2. **BARRIERS TO THE USE OF SURPLUS LAND;** a. Effect of Location on the Availability of Land; b. Effects of Tax Delinquency on the Availability of Land; c. Legal and Financial Barriers to Utilization of Land; 3. **THE COST OF LAND;** a. Prospects for Land Prices; b. Cost of Land in Relation to Total Property Costs; c. Raw Land and Improvement Costs; 4. **TRENDS IN LAND UTILIZATION;** a. Decline in Density and Price; b. Protecting Neighborhood Values; c. Growth of Public Control of Land Subdivision; d. The Movement to New Land; 5. **SUMMARY.**

- (54) **A CRITICAL REVIEW OF RESEARCH IN LAND ECONOMICS** by Leonard A. Salter, Jr.; published by The University of Minnesota Press, Minneapolis, Minn., 1948.—258 pages.

Includes a consideration of: 1. Introduction; 2. The Development of Rural Land Economics in the United States; 3. Scientific Method and Social Science; 4. On the Use of Publications as Methodological Evidence; 5. Land Utilization Research in the Cut-Overs; 6. Land Utilization Research in Other Areas; 7. Research in Landed Property; 8. Changes in Emphasis; and 9. Conclusions.

- (55) **"DEFICIENCIES OF THE LAND SYSTEM"** (Conclusions concerning)—Section 1 (c) of Chapter 12; Conclusions and Recommendations of the Housing Committee, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

- (56) **"LAND PROBLEMS AND HOUSING DISTRIBUTION"**—Section 2 of Chapter 11; Removing the Obstacles, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings by Miles L. Colean; The Program by The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

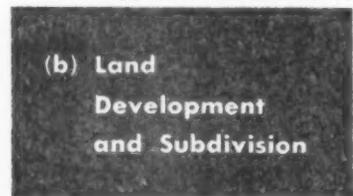
This section considers: a. Difficulties in Obtaining Land for Low-Priced Dwellings; b. Protection of Housing Values; and c. Reutilization of Land.

- (57) "VALUE CHARACTERISTICS OF LAND AND BUILDINGS"—Chapter 4 (pages 56-81) of PRINCIPLES OF URBAN REAL ESTATE by Arthur M. Weiner and Homer Hoyt; (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: \$5.00

The "Land" section of this chapter considers: 1. Physical versus Value Characteristics; 2. Land; 3. Location; 4. Size and Shape of the Lot; 5. Topography; 6. Condition of the Soil and Subsoil; 7. Accessibility and Availability of Utilities and Conveniences; and 8. Surveys. [Balance of chapter relates to buildings on the land.]

- (58) "BASIC STUDIES FOR PLANNING"—Chapter 4 (pages 59-89) of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: \$7.50

This chapter considers: 1. Principal Elements of Planning Survey; 2. Population Studies; 3. The Economic Base of the Community; 4. Land Use Maps and Surveys; and 5. Other Basic Studies.



- (71) "LAND AND ITS DEVELOPMENT"—Chapter IV (pages 59-77) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

This chapter considers: 1. Summary Statement of Land Supply; 2. Limitation of Land Supply; 3. Highest and Best Use; 4. Alternatives of Use; 5. Centralization and Decentralization; 6. Effects of Decentralization—Business Properties; 7. Decentralization—Residential Areas; 8. Causes of Decentralization; 9. The Incentive Underlying Land Development; 10. The New Subdivision; 11. Large-Scale and Small-Scale Operation; 12. Speculative Fever; 13. Nature of Recent Price Increases; 14. Earlier Speculation; 15. The Boom in Southern California; 16. The Florida Boom; 17. Appraisal of Booms; 18. Land and the Specific Project; 19. Obtaining and Preparing Land for Building; 20. Cost Analysis; and 21. Land and the Cost of the Entire Property.

- (72) "LAND SUBDIVISION"—Chapter 1 (pages 209-219) of Section Five: Land Development and Home Building, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. F.H.A. Land Planning Division Standards; 2. Demand; 3. Community Amenities; 4. Design; 5. Protection; and 6. Recording. This chapter was prepared by Mr. Gabriel C. Harmon, land planning consultant.

- (73) REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; New York, Prentice-Hall, Inc., 1949.—394 pages; price: \$5.75

Includes chapters on: 1. Subdividing in a Changing World; 2. Birth of a Business; 3. Intensive Use of Land; 4. Social Control of Land; 5. Taking advantage of City and Regional Plans; 6. Scientifically

Planned Communities; 7. Community Development Problems and Principles; 8. Surveying the Market; 9. Check List for Major Development; 10. Testing for Public Approval; 11. How to Appraise Acreage for Subdivisions; 12. Financing Problems; 13. Selecting Property to be Subdivided; 14. Signposts of Progress in Subdividing; 15. Adequate Subdivision Design; 16. Problems of the Small Subdivider; 17. F.H.A. Subdivision Requirements; 18. Preparing Property for the Market; 19. Parks and Playgrounds—Cooperating with Nature; 20. Restrictions in Subdivisions; 21. Restrictions—Practical and Legal Aspects; 22. Racial Restrictions; 23. Architectural Control of New Buildings; 24. Subdividing for the Motor Age; 25. Streets, Lots, and Landscaping; 26. Business Centers in Subdivisions; 27. Developing Resort Properties; 28. Subdividing the Air; 29. Contracts and Deeds; 30. Office Records and Installment Payment Policies; 31. Publicity and Advertising; 32. Selling Techniques; and 33. Developing for 100 Years. The work also includes 13 Appendices, such as a list of 750 subdivision names; rules for construing legal description; a table showing, for lots of various sizes, the number of lots per acre; etc.

- (74) THE COMMUNITY BUILDERS HANDBOOK—Prepared by the Community Builders' Council of the Urban Land Institute; J. C. Nichols Memorial Edition, 1950 (First Printing, 1947; First Revised Printing, 1948); published by Urban Land Institute, 1737 K Street, N. W., Washington 6, D. C., 1950.—213 pages; price: \$12.00

The several Parts and Sections of this work cover the following points: PART I: PRELIMINARY STEPS IN COMMUNITY DEVELOPMENT: a. Market Analysis; b. Technical Planning Service; and c. Selection of Subdivision Site; PART II: PLANNING THE DEVELOPMENT: a. Site Information for Planning; b. Planning the Site; c. Street and Utility Construction; and d. House Planning for Operative Builders; PART III: PROTECTING THE FUTURE OF THE DEVELOPMENT: a. Protective Covenants; b. Maintenance and Homes Associations; c. Maintenance in Apartment Development; and d. Selling the Project; PART IV: PLANNING AND MANAGEMENT OF SHOPPING CENTERS: a. Size and Location; b. Site Planning for Shopping Centers; c. Architectural and Structural Design of Shopping Centers; d. Management and Maintenance; and e. Concluding Statement. The work also includes nine Appendices (A through I) giving sample covenant forms, etc.—21 illustrations, 32 figures and 6 tables (for example, Relation between cost of lot and house; Estimated Effect of Airport on Land Values, etc.).

- (75) HOME BUILDERS MANUAL FOR LAND DEVELOPMENT—Revised edition (1953), prepared under the supervision of Albert Balch, Chairman, NAHB Land Planning Committee, and Leonard G. Haeger, Director, NAHB Research Institute; published by The National Association of Home Builders in the U. S., 1028 Connecticut Avenue N. W., Washington, D. C., 1953.—274 pages; price: \$3.00

Includes chapters on: 1. Selecting Land Suitable for Subdivision; 2. Importance of Good Environment; 3. Planning and Zoning Regulations; 4. Cutting Land Development Costs; 5. Cost Effect of Improper Finish Grading; 6. Comparative Costs in Land Development; 7. Lower Improvement Costs Reduce Price of Homes; 8. Water Systems for Residential Communities; (a) Community Supply systems; (b) Individual supply systems; 9. Sanitary Sewerage Systems; (a) Municipal and community systems; (b) Individual facilities; 10. Trunk Line Utility Easements; 11. Road Design and Construction; 12. Design and Use of Culs-de-Sac; 13. Road and Pavement Types; 14. Appraisal of Residential Street Widths; 15. Improved Pavement at Lower Cost; 16. Mistakes to Avoid in Lot and Street Grading; 17. Advantages of Careful Lot Planning; 18. Location and Grouping of Small Homes; 19. Effect of Ranch Type House on Lot Planning; 20.

Making the Most of Thoroughfare Frontage; 21. Handling Streams and Water Frontage; 22. Site Planning for Small Apartments; 23. Parking Facilities for Garden Apartments; 24. The Small Shopping Center; 25. The Neighborhood Shopping Center; 26. Parking for the Small Shopping Center; 27. Proper Church and School Location; 28. Community Recreational Facilities; 29. Tips on Landscaping; 30. Revamping Old Subdivisions; 31. Special Site Planning for Prefabricated Homes; 32. Hillside Development of Single Family Homes; 33. Marinas, A Potential Asset to Home Development; 34. Airports and Their Effect on Adjacent Residential Areas; 35. Homes Associations; 36. Protective Covenants; 37. Conserving Materials in Land Development; 38. Overall Conservation Through Careful Planning; 39. Adjusting Lot Widths to the House; 40. Waste Resulting from Excessive Street and Utility Requirements; 41. Subdivision Regulations in Periods of National Emergency; 42. Selected References.

ABSTRACT: The Land Planning Service Bulletin was inaugurated as a regular NAHB service to members by the NAHB Land Planning Committee in 1947, under the chairmanship of W. P. Atkinson, The Urban Land Institute, Technical Consultant to the Committee, was delegated to prepare these bulletins, which also have appeared as feature articles in the NAHB Correlator. In the process, a wealth of valuable information on neighborhood development has been collected, with subject matter ranging from site selection to protective covenants and the marketing of old subdivisions. In 1949, the Urban Land Institute was requested by the Committee, under the Chairmanship of David D. Bohannon, to organize and edit the bulletins and articles into one volume as a manual for land development. The resulting publication, the 158-page "Home Builders Manual for Land Development," was issued early in 1950 by NAHB. In 1952, the Committee voted to begin the work of issuing a revised edition, which would incorporate some of the original text, brought up to date, with the new material developed during the intervening years. This revised edition, based on current, up-to-date facts and figures, is designed to act as a guide in the solution of a wide range of land planning problems.

- (76) "THE STREET SYSTEM"—Chapter 5 (pages 90-119) of LOCAL PLANNING ADMINISTRATION; Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 E. 60th Street, Chicago Illinois, 1948.—337 pages; price: \$7.50

This chapter considers: 1. Character and Costs of Street Traffic Congestion; 2. Traffic Engineering; 3. Street Systems; 4. Special Aspects of Street Planning; 5. Automobile Parking Facilities; 6. Preparation of the Major Street Plan; and 7. Adoption of the Major Street Plan.

- (77) BUILDING TRAFFIC SAFETY INTO RESIDENTIAL DEVELOPMENTS by the Committee on Traffic Features for Residential Developments (Burton W. Marsh, Chairman); published by National Committee for Traffic Safety, 20 North Wacker Drive, Chicago 6, Illinois, with the Cooperation of American Automobile Association, American Municipal Association, American National Red Cross, Association of Casualty & Safety Companies, Automotive Safety Foundation, National Association of Home Builders, National Safety Council, and Urban Land Institute; 1954.—40 pages; price: \$1.00

Includes a consideration of: 1. Location and Design of Development; 2. Design of Local Residential Streets; 3. Design of Feeder Streets; 4. Intersection Design; 5. Sidewalks; 6. Parking in Residential Areas; 7. Alleys; 8. Street Lighting; 9. Curb Cuts for Driveways; 10. Street Name Signs; 11. Shopping Centers; 12. Public Utilities; 13. Parks and Play Areas; 14. Committee List; and 15. Acknowledgments.



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(78) "PUBLIC UTILITIES AND RELATED SERVICE FACILITIES"—Chapter 6 (pages 120-131) of LOCAL PLANNING ADMINISTRATION; Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: \$7.50

Includes a consideration of: 1. Water Supply Systems; 2. Sewerage Systems; 3. Gas Systems; 4. Central Steam Heating Systems; 5. Utilities Using Wires; 6. Location of Utility Lines; and 7. Related Service Facilities for Collection and Disposal of Wastes other than Sewerage.

(79) "RECREATION AND PUBLIC OPEN SPACES"—Chapter 8 (pages 162-178) of LOCAL PLANNING ADMINISTRATION Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: \$7.50

Includes a consideration of: 1. The Nature and Purpose of Recreation; 2. Responsibility of the Community for the Provision of Recreation Opportunities; 3. Recreation Program Agencies; 4. Relationship of Recreation and City Planning Functions; 5. Planning a Comprehensive System of Public Open Spaces for Recreation; 6. Methods of Acquiring Recreation Areas; and 7. Financing the Acquisition, Development, and Operation of Recreation Areas.

(80a) PREMATURE SUBDIVISION AND ITS CONSEQUENCES; A Study made for the State Planning Council of New York of the premature subdivision for urban purposes of outlying lands in selected metropolitan areas of New York by Philip H. Cornick; published by Institute of Public Administration, Columbia University, New York, N. Y., 1938.—346 pages (Authorized reprint of the official report); price: \$1.50

Includes a consideration of: 1. Early Subdivision Booms and Their Consequences; 2. The Extent of Premature Subdivision; 3. Premature Subdivision and Arrears of Taxes; 4. Premature Subdivision and Cost of Government; 5. Premature Subdivision and Land Use; 6. Premature Subdivision with Respect to Location; 7. Subdivision Control under the Police Power; 8. Subdivision Control Through Limitations on Grants of Power; and 9. Cure and Prevention.

(80b) A REPORT TO THE STATE PLANNING COUNCIL OF NEW YORK ON THE PROBLEMS CREATED BY THE PREMATURE SUBDIVISION OF URBAN LANDS IN SELECTED METROPOLITAN DISTRICTS IN THE STATE OF NEW YORK by Philip H. Cornick; published by Division of State Planning, Albany, New York, 1938.—346 pages; price: not stated.

The text of the report is identical with that issued by Columbia University under the title PREMATURE SUBDIVISION AND ITS CONSEQUENCES.

(81) LAND SUBDIVIDING AND THE RATE OF UTILIZATION A STUDY OF THE RELATIONSHIP BETWEEN THE RATE AT WHICH URBAN SITES ARE CREATED AND THE RATE AT WHICH THEY ARE ABSORBED INTO USE WITH PARTICULAR REFERENCE TO THE GRAND RAPIDS METROPOLITAN REGION by Ernest M. Fisher and Raymond F. Smith; published by the University of Michigan, School of Business Administration, Bureau

of Business Research, Ann Arbor, Michigan, 1932, as Volume IV, No. 5 of Michigan Business Studies.—80 pages; price: \$1.00

Includes a consideration of: 1. Summary and Conclusions; 2. The Problem and its Significance; 3. Data and Sources of Data; 4. The Grand Rapids Metropolitan Region; 5. Location of Subdividing Activities; 6. Location of Building Activities; 7. The Role of Different Use Types; 8. Population Growth, Subdividing, and Lot Utilization; 9. Subdividing and Utilization in Various Areas; 10. Investment Represented by Untilted Lots and Improvements; and 11. Appendix—Tables Supporting Charts Presented in Study.

## (c) Neighborhood Planning

(91) NEIGHBORHOOD STANDARDS—A Series, known as Land Planning Bulletin No. 3; published by the Federal Housing Administration state offices at various dates.

Builders interested in consulting the edition of this land planning bulletin which is applicable to the geographical area in which they operate should communicate with the nearest F.H.A. office.

(92) STANDARDS FOR HEALTHFUL HOUSING: PLANNING THE NEIGHBORHOOD by The American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1948.—90 pages; price: not shown. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

Includes a consideration of: 1. Basic Requirements for Site Selection; (a) The neighborhood as a basis for environmental standards; (b) The controlling importance of site selection; (c) Essential physical characteristics of the site; (d) Availability of sanitary and protective services; (e) Freedom from local hazards and nuisances; (f) Access to community facilities outside the neighborhood; (g) Essential city and district facilities; 2. Development of Land, Utilities and Services; (a) General considerations; (b) Grading and surface drainage (c) Water supply; (d) Sewerage disposal; (e) Removal of refuse; (f) Power, fuel and communications; (g) Planting and landscape design; 3. Planning for Residential Facilities; (a) General considerations; (b) Criteria for selection of dwelling types; (c) Site design requirements; (d) Density of residential development; 4. Provision of Neighborhood Community Facilities; (a) Factors of need, selection and accessibility; (b) Education; (c) Outdoor recreation; (d) Indoor social and cultural facilities; (e) Neighborhood shopping; (f) Health service facilities; (g) Neighborhood community facilities as a whole; 5. Layout for Vehicular and Pedestrian Circulation; (a) The functions of circulation; (b) Organization of the circulation system; (c) Design of streets; (d) Design of walks; (e) Design of parking spaces and driveways; (f) Circulation lighting; 6. Neighborhood Density; Coordination of Housing Elements; (a) Protection of livability through neighborhood density control; (b) Determination of neighborhood density limits; (c) Implications of neighborhood sites; (f) Problems of obnoxious densities for neighborhood of diversified dwelling types; (e) Range of neighborhood sites; (f) Problems of obtaining desirable neighborhood densities; (g) Location of neighborhood to the district and city; (h) The planned location of neighborhood elements; 7. Appendices; (a) Glossary; (b) Potential sources of nuisances and hazards; (c) Organizations and facilities which may supply neighborhood services; (d) Bibliography. NOTE: The work also contains the following Tables: 1. Assumed family size and age distribution; Selected data; 2. Access standards for community facilities outside the neighborhood; 3. Allocation of net residential

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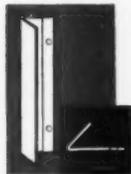


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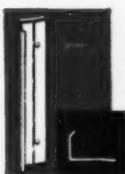
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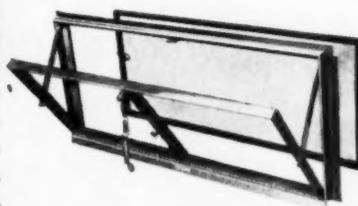


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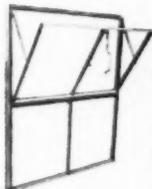


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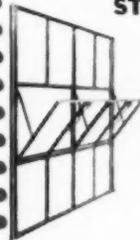


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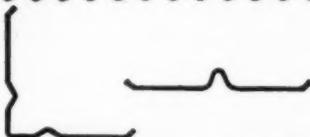
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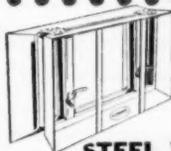
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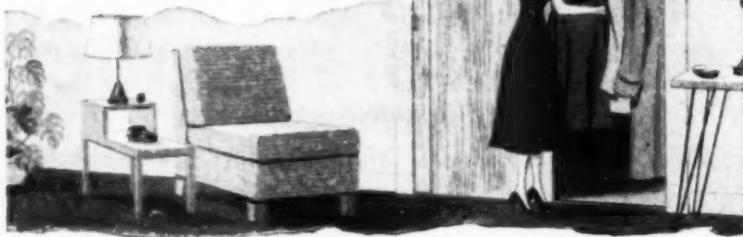
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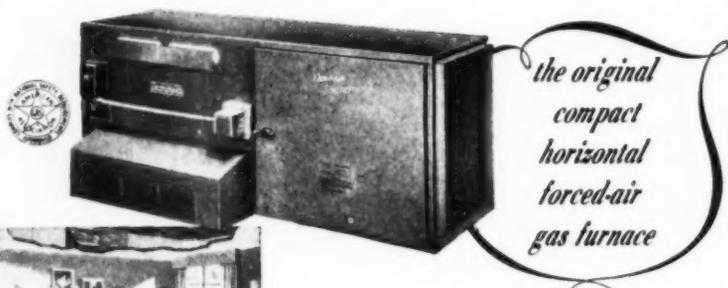
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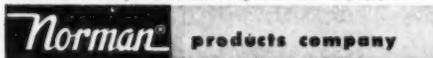
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land to major dwelling uses; 4. Net dwelling densities and building coverage; 5. Access standards for community facilities within the neighborhood; 6. Elementary school capacity related to neighborhood population; 7. Elementary school site size; 8. Neighborhood playground size; 9. Neighborhood park size; 10. Neighborhood shopping center size; 11. Land area of all neighborhood community facilities; 12. Land area per family for a neighborhood of 5,000 persons (1,375 families); 13. Land area per family for neighborhoods of various sizes; 14. Neighborhood density: families per acre; 15. Neighborhood density: persons per acre; 16. Land area and density for a neighborhood of 5,000 persons (1,375 families) with diversified dwelling types; 17. Neighborhood area derived from neighborhood density allowances; 18. Neighborhood size and density related to school service area.

**ABSTRACT:** This volume is the first in a series of three monographs. The present report, on the standards for the environment of residential areas, deals with the physical setting in which houses should be located. An attempt is made to bring into focus the basic health criteria which should guide the planning of residential neighborhood environment. In the light of these criteria, the Committee offers recommendations for the selection of sites and for their development. This volume was prepared for the Committee on the Hygiene of Housing as a contribution of its Subcommittee on Environmental Standards. The members of this subcommittee were: Frederick J. Adams, *Chairman*, Edwin S. Burdell, L. J. Carr, Earle S. Draper, Roland B. Greeley, Guy Greer, Frank W. Herring, John T. Howard, Lawrence M. Orton, M. Allen Pond, Robert C. Weinberg, and Edward Weinfeld. The report was prepared by Anatole A. Solow and Ann Copperman, and was edited by Allan A. Twitchell. For the second and third reports in this series, see items (125) and (134) of this reading list.

**(d) Trailer Court  
Development**

**(101) RECOMMENDED STANDARDS FOR TRAILER COURTS**

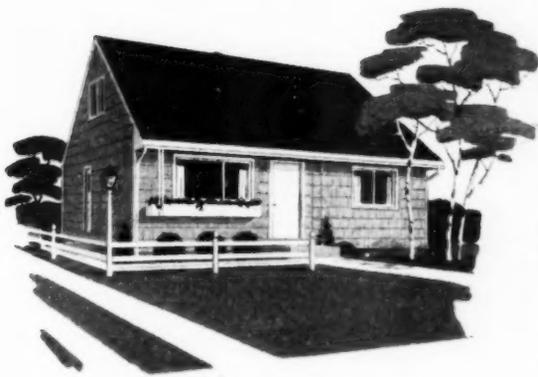
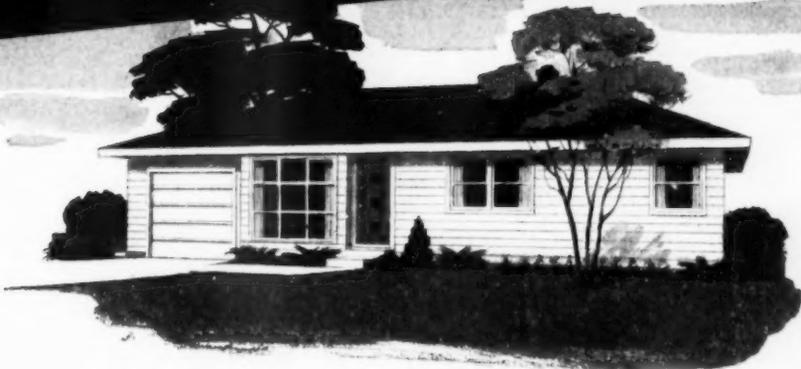
—Prepared by Division of Plans and Programs and Division of Housing Research, Housing and Home Finance Agency; published by Housing and Home Finance Agency, Washington, D. C., November 1952.—24 pages; price: 15¢. Order copies from Superintendent of Documents U. S. Government Printing Office, Washington, D. C.

This booklet considers: I. FOREWORD (by Ralph B. Kaul); II. DEFINITIONS; III. SITE SELECTION; A. Location; B. Topography; C. Availability of Utilities; D. Necessary Land Area; IV. SITE IMPROVEMENTS; A-1 Site Planning; A-2. Trailer Coach Space Size; B. Spacing of Trailers; C. Roads, Walks and Parking Areas; 1. General Circulation; 2. Servicing; 3. Width of Roads and Parking Areas; 4. Parking Areas; 5. Walks; D. Service Buildings; 1. Location; 2. Construction; 3. Facilities; (a) Plumbing Fixtures; (b) Electrical; (c) Heating; (d) Hot Water; E. Laundry Drying Facilities; F. Refuse Collection; G. Recreational Areas; V. SITE ENGINEERING; A. Slopes of Trailer Spaces, Roads, Parking Areas, Walks and Service Areas; B. Construction of Roads, Parking Areas, Walks, and Service Areas; 1. Roads and Parking Areas; VI. SITE UTILITIES; A. Water Supply; 1. Source of Supply; 2. Quality and Quantity; B. Distribution System; C. Water Storage; D. Fire Protection; E. Drinking Fountains; F. Plumbing; G. Sanitary Sewers; 1. General; 2. Sewer Sizing; 3. Sewer Appurtenances; H. Sewage Disposal or Treatment; I. Storm Drains; J. Electricity; K. Fuel; and VII. OTHER FACILITIES.

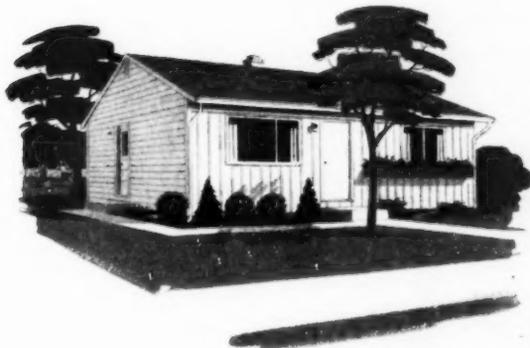
**ABSTRACT.** This booklet was prepared in response to requests of the trailer court industry to establish sound standards for the construction of privately owned trailer courts. Its provisions, resulting from a review of all work done in this field, will enable private builders, as well as local public regulatory authorities, to become informed both in

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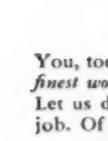
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the proper planning and construction of privately owned trailer courts and on the public health factors involved. The standards which have public health implications were prepared in collaboration with, and largely by, the Public Health Service, Federal Security Agency. These provisions undoubtedly will be revised from time to time to include the results of continuing experience by public health authorities. The recommendations in the booklet, however, will enable builders to familiarize themselves with public health factors involved in their operations. The over-all recommendations contained herein cover all phases of trailer court development, such as site selection, site planning, site engineering, utilities, and auxiliary buildings.

## (e) Land Redevelopment

(111) THE FUTURE OF CITIES AND URBAN REDEVELOPMENT by Catherine Bauer, Henry S. Churchill, Frank Cliffe, Vernon De Mars, Richard Dewey, Arthur B. Gallion, Victor Jones, Holmes Perkins, William L. Slayton, Robert C. Weinberg, and Coleman Woodbury; edited by Coleman Woodbury; published by The University of Chicago Press, 1953.—764 pages; price: \$9.00. Order copies from The University of Chicago Press, Chicago 37, Illinois.

Includes a consideration of: 1. Essays on Redevelopment Goals, Design, and Strategy; (a) Redevelopment, a misfit in the fifties (by Miss Bauer); (i) The current obstacle race; (ii) The inherent difficulty; (iii) Civic progress and "emergencies"; (iv) Slum clearance; (v) The failure to broaden the program; (vi) Some strange results; (vii) The challenge of present-day conditions; (b) The regional city (by Mr. Perkins); (i) Adaptability and variety; (ii) Balance in the urban region; (iii) New town-groupings and families; (iv) The neighborhood; (v) Mixed development; (vi) Four criteria; (vii) Industries in urban patterns; (viii) A new attack on congestion; (ix) Size and spacing of new towns; (x) The regional center; (xi) In conclusion; (c) What kind of cities do we want? (by Mr. Churchill); (i) What is a city?; (ii) People are different; (iii) Planning is not statistics; (iv) Large-scale vs. human values; (d). Not by bread alone: An evaluation of the design element in large-scale planning (by Mr. Weinberg); (i) Introduction; (ii) The human being in the urban scene; (iii) Design must be intrinsic; (iv) Amenity reconciled with mass production; (v) Man, the measure; (vi) The art of townscape; (vii) British planners lead the way; (viii) Positive directives, not negative controls; (ix) Some missed opportunities; (x) Conclusion; (xi) Postscript; (e) Civic design and democracy (by Mr. Gallion); (i) The key is democratic action; (ii) The illusion of tradition; (iii) Look to the standards; (iv) The standards are deficient; (v) City building is a process; (vi) Contemporary aesthetics; (vii) There is no formula; (f) Townscape and the architect: Some problems of the urban scene (by Mr. De Mars); (i) New towns; (ii) The city center; (iii) The aesthetics of housing; (iv) Some recommendations; 2. Industrial Location and Urban Redevelopment (by Mr. Woodbury with the assistance of Mr. Cliffe); (a) Introduction—why study industrial location?; (i) Industries as re-developers; (ii) Displaced industries; (iii) Industries as factors in urban patterns; (iv) Industrialization and population growth; (v) The economic bases of urban areas; (vi) Summary and warnings; (b) Location theory and practice; (i) Recent interest in the subjects; (ii) A good summary of the theory; (iii) Two other general studies; (iv) Industrial plant location in the South; (v) Location in the New England States; (vi) Some comments on the two investigations; (vii) Opinions from established plants; (viii) Industrial change in an old district; (ix) Two references; (c) Regional distributions and trends in industrial location; (i) Essential definitions; (ii) The data and their use; (iii) A few

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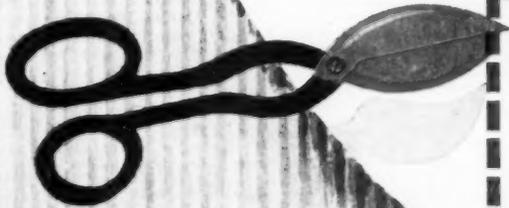
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comparisons and observations; (iv) War and postwar expansion; (v) Two other references; (vi) Gas-plant pricing and industrial location; (vii) In conclusion; (d) Security considerations in industrial location; (i) Terms and approach; (ii) Action on many fronts; (iii) Expert and public discussion; (iv) The skies darken; (v) What this review shows; (vi) Why has dispersal been a step-child?; (vii) Some studies and proposals; (viii) An early analysis; (ix) NSRB's first pamphlet; (x) Federal office buildings; (xi) Report to Joint Committee on the Economic Report; (xii) The Rains amendment; (xiii) The President's statement of policy; (xiv) In conclusion; (e) Are industries decentralizing? Some local inquiries; (i) Difficulties in earlier studies; (ii) Some definitions; (iii) Unit of measurement; (iv) Analysis and objectives; (v) Earlier studies; (vi) The regional survey of New York; (vii) Regional Plan Association follow-up; (viii) Chicago in the 1920's; (ix) Chicago—the late 1930's; (x) And in World War II and after; (xi) Two Detroit studies; (xii) Cincinnati as an example; (i) Are industries decentralizing? Nation-wide studies; (i) From 1899 to 1929; (ii) From 1899 to 1939; (iii) In metropolitan districts; (iv) An analysis for industrialists; (v) Partial summary; (vi) Planning URS' own work; (vii) The Creamer-Goodrich study; (viii) Creamer on types of changes; (ix) Creamer plus URS; (x) URS' reclassification of localities; (xi) What about the World War II record?; (xii) The TID-ENR (Territorial Information Department-Engineering News-Record) data; (xiii) The gist of the Creamer-URS (Urban Redevelopment Study) findings; (xiv) Summary and conclusions; 3. Urban Redevelopment and the Urbanite by Mr. Slayton and Mr. Dewey; (a) Introduction—The basic approach to redevelopment; (i) Types of investigation needed; (ii) Information wanted; (iii) The sample survey; (iv) Universality; (b) Needs and desires of the urbanite; (i) Urban redevelopment and consumer attitudes; (ii) Man's needs; (A) Universal needs; (1) Physiological needs; (2) Socially acquired universal needs; (B) Cultural needs (iii) Summary; (iv) Specific areas of investigation; (A) Housing; (B) External space relations; (1) Distance to services; (2) The journey to work—its implications for urban development; (3) Distances to friends and associates; (4) Location with reference to the larger community; (iii) Summary; (c) Attitudes and the attitude survey; (i) Attitudes toward redevelopment; (ii) The sample survey; (A) The Milwaukee Survey; (B) Denver community survey; (iii) Summary; (iv) Interview schedule survey of the Milwaukee neighborhood; (d) Community organizations and redevelopment; (i) Usefulness to redevelopment; (ii) Experience with community organizations in redevelopment; (A) Philadelphia; (B) Chicago; (C) Cleveland; (iii) Conclusions; 4. Local Government Organization in Metropolitan Areas: Its Relation to Urban Redevelopment (by Victor Jones); (a) Metropolitan redevelopment; (b) The metropolitan community; (i) Dominant influence of metropolitan ways of life; (ii) Criticism of Metropolitanism; (iii) Redevelopment of the metropolis—a community-wide problem; (iv) Definition of the metropolitan community; (v) Population increase concentrated in metropolitan areas; (vi) Growth of suburbs faster than that of central cities; (vii) Distribution of population between central cities and suburbs; (viii) Immigration to, from, and within metropolitan areas; (ix) Daily movement of population; (x) Fragmented local government; (xi) Functional differences within metropolitan communities; (xii) Differences between central cities and suburbs; (xiii) Summary; (c) Metropolitan problems; (i) When is metropolitan government needed?; (ii) Blight found in suburbs as well as central cities; (iii) Dilapidated housing; (iv) Blighted undeveloped land; (v) The relocation problem; (vi) Few suburbs interested in urban redevelopment; (vii) Other metropolitan problems related to urban redevelopment; (viii) Unequal governmental services; (ix) Disparity between need and fiscal ability; (x) Tax rates increasing more rapidly in many suburbs than in central cities; (xi) Complicated local government makes democratic control difficult; (xii) Summary; (d) Attempts to meet the problems; (i) Basic political principles of local government organization; (ii) Classification of proposed and attempted solutions; (iii) Devices involving limited structural changes; (iv) Devices requiring fundamental structural changes; (e) Annexation; (i) Importance

of annexation during nineteenth century; (ii) Few significant annexations after 1890; (iii) Increase of annexations since World War II; (iv) Limited utility of annexation to provide metropolitan government; (v) Incorporated suburbs unlikely to be annexed; (vi) Cumbersome annexation procedures required by statutes; (vii) Annexation by ordinance or charter amendment in Texas and Missouri home-rule cities; (viii) Judicial determination of annexation questions in Virginia; (ix) Judicial determination of annexation questions in other States; (x) Questions of values and interests mixed with questions of fact; (xi) Advantage of an administrative agency to determine annexation questions; (xii) Conclusions; (1) Special districts and authorities; (1) Number of special districts in metropolitan areas; (ii) Need for larger areas of policy formation and administration; (iii) Pressure for functional autonomy; (iv) Can government be taken out of politics?; (v) Are special districts developing into general metropolitan governments?; (vi) The Port of New York Authority as a prototype of metropolitan government; (ii) Federated forms of metropolitan government; (i) The borough plan of metropolitan government; (ii) Multi-purpose district as a "Federal" type of metropolitan government; (iii) The county as the central unit of metropolitan government; (iv) Reorganization of urban county government; (v) Confusion of substantive and procedural powers; (ii) Representative and responsible county legislative body; (vii) A single-headed county executive; (viii) Summary; (h) Urban redevelopment and the government of metropolitan areas; 5. The Background and Prospects of Urban Redevelopment in the United States (by Mr. Woodbury); (a) Introduction; (b) On the nature of cities; (c) Cities at the beginning of the twentieth century; (d) The past half-century; (e) Trends and problems; (i) Metropolitanism; (ii) Political problems of social heterogeneity; (iii) Urban planning; (A) The city beautiful; (B) The city economic or the city on wheels; (C) Zoning; (D) Debate and disillusionment; (E) Reconstruction; (F) Metropolitan planning; (iv) Local government finance; (A) Local government revenues in the national economy; (B) Sources of revenue; (C) General character of local taxes; (D) Fiscal weakness of local government; (E) Local government debt; (F) Revenue reform and aid from other governments; (G) Two more problems; (vi) Organizations for the improvement of local government; (A) Civic reform groups; (B) Associations of cities; (C) Associations of local public officials; (D) Evaluation and suggestions; (vii) Representation and leadership in urban public affairs; (A) Urban representation in legislatures; (B) City-wide and neighborhood interests; (C) Non-voting; (D) Leadership and morale; (1) Approaches to an understanding of leadership; (2) What is leadership?; (3) Is present urban leadership adequate?; (4) What have we learned from recent studies?; (5) How do we proceed from here?; (6) Urban government and consensus; (7) Summary; (f) A note on psychosomatic urbanism; (g) In conclusion; and 6. Acknowledgments, ABSTRACT, See abstract for item (112) of this reading list.

(112) URBAN REDEVELOPMENT; PROBLEMS AND PRACTICES by Charles S. Ascher, William H. Ludlow, Jack Meltzer, Sheila Orloff, Ira S. Robbins, William L. Slayton, Allan A. Twichell, and Marian Perry Ankauer; edited by Coleman Woodbury; published by The University of Chicago Press, 1953.—525 pages; price: \$7.50. Order copies from The University of Chicago Press, Chicago 37, Illinois.

Includes a consideration of: 1. Measuring the Quality of Housing in Planning for Urban Redevelopment; (a) Fundamentals in evaluating urban areas; (i) On the nature of urban redevelopment; (ii) Surveys under the Housing Act of 1949; (iii) What is blight?; (iv) Housing standards; a cornerstone of policy; (b) Blighted area surveys and what they tell; (i) Factors that govern the value of surveys; (ii) Standard housing survey methods; (iii) Local housing survey methods; (iv) Land use maps and inventories; (v) Unsolved problems in measuring non-residential blight; (vi) Dead and arrested subdivisions; (c) Screening

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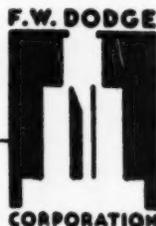
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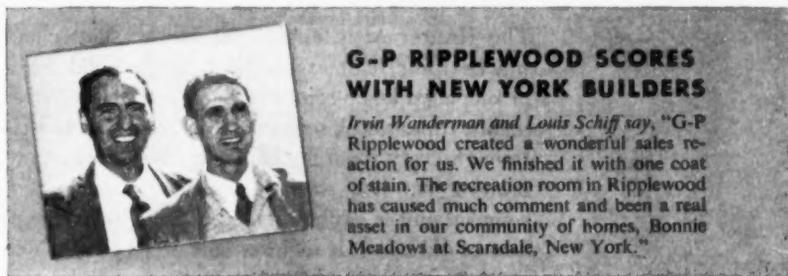
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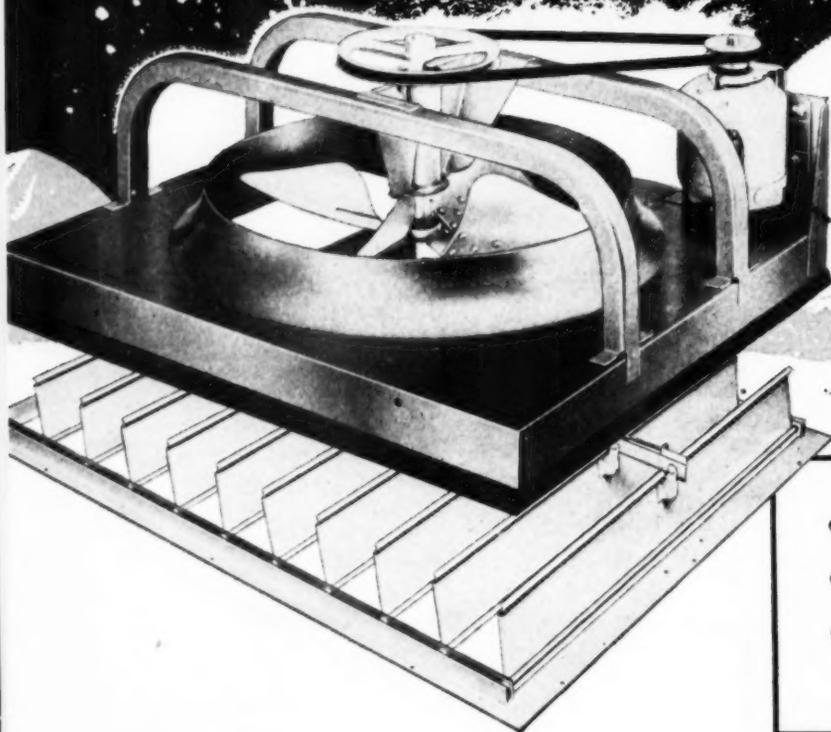
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surveys for broad policy; (i) The role of screening studies; (ii) Housing census data; (iii) Composite indices; (iv) An APHA screening study—plus; (v) Intensive studies to guide specific action; (vi) Information needed for coordinated programs; (vii) The housing census and census-type surveys; (viii) Designation of slum clearance and conservation areas; (ix) Housing based on family needs; (x) Strengthening housing standards; (xi) Toward effective surveys; (xii) Broad sponsorship as a source of strength; (xiii) Some common operating problems and pitfalls; (xiv) Taking the community into partnership; (xv) Can the APHA method be condensed?; 2. Urban Densities and Their Costs; An Exploration into the Economics of Population Densities and Urban Patterns; (a) Introduction; (i) Types of densities; (ii) Criteria for determining density and patterns of urban development; (iii) The approach of the monograph; (b) Efficiencies of residential buildings at various densities; (i) Existing and recommended lot densities; (ii) Determination of housing costs; (iii) Land costs; (iv) Conclusions; (v) Tables and notes on the comparative costs of residential buildings of various types, densities, and construction standards; (c) Costs of public services in various urban patterns and densities; (i) Municipal costs as related to density; (ii) Methods of study; (iii) Density and design for a single residential area; (iv) Comparison of residential areas in different locations; (v) City-wide and metropolitan patterns of land use and density; (vi) Conclusions; (vii) Tables and notes on costs of public services in various urban patterns and densities; (d) Broader considerations in the efficiency of urban patterns and densities; (i) Combined residential and public service efficiencies; (ii) Other factors affecting urban efficiency; (iii) Efficiency of industry in various patterns and densities; (iv) Densities and locational pattern of nonindustrial employment; (v) Efficiency of urban transport; (vi) Integrated studies of urban efficiency; (vii) Costs and methods of proposed studies; (viii) Economic vs. social criteria; (ix) Conclusions; (x) Chart and notes on broader considerations in the efficiency of urban patterns and densities; (e) Density determinations for initial redevelopment projects; (i) Purpose of this chapter; (ii) Applying cost factors to decisions on density; (iii) Densities and height; (iv) Redevelopment legislation and density standards; (v) Obstacles to rational determinations of densities; (vi) Criteria and techniques for establishing project densities; (vii) Costs of housing and public improvements at various densities; 3. Private Covenants in Urban Redevelopment; (a) Introduction; (i) The role of covenants in redevelopment; (ii) Recognition in the Housing Act of 1949; (iii) Recent concern with racial covenants; (iv) The broader use of covenants; (v) Why use covenants?; (vi) Types of redevelopment in which covenants can be useful; (b) The legal basis of covenants in community schemes; (i) Some cautionary examples; (ii) Underlying legal principles; (iii) Application of the principles to community schemes; (iv) Extinguishment of restrictions by public action; (v) Use of covenants by a public body not under a community scheme; (vi) Effect of statutory provisions; (vii) Conclusion; (c) Government by contract in Radburn, New Jersey; (i) The setting of the Radburn restrictions; (ii) The framework of the Radburn restrictions; (iii) Combination of municipal law and property law; (iv) Factors in Radburn's history affecting the community scheme; (v) Control of design and use; (vi) The Association and the municipality; (vii) Finance: the charge and its administration; (viii) Selection of trustees; (ix) extension, modification, amendment; (x) Transfer by the Association of its rights and duties; (xi) Conclusion; 4. Urban Redevelopment Short of Clearance: Rehabilitation, Reconditioning, Conservation and Code Enforcement in Local Programs; (a) Balanced redevelopment; (i) Introduction; (ii) A comprehensive redevelopment program; (iii) Classification of areas; (iv) Regulatory tools; (v) The enforcement program; (vi) Area rehabilitation again; (b) Experience with police power regulation of housing in four cities; (i) The Baltimore Plan; (ii) Milwaukee; (iii) Kansas City; (iv) Chicago; (c) Rehabilitation and conservation—studies and a little experience; (i) Waverly; (ii) Woodlawn; (iii) Boston—Dwight-Hanson street area; (iv) Philadelphia—American friends; (d) Summary; (e) A note on tax delinquent land; (f) Bibliography; 5. Relocation of Families Displaced in Urban Redevelop-

ment: Experience in Chicago; (a) Introduction; (b) The evolution of the problem; (i) The early 1930's; (ii) The passage of the Housing Act of 1937; (iii) The World War II experience; (iv) Private assumption of responsibility; (v) The task takes shape 1945-47; (vi) State legislation; (vii) Public and private cooperation; (viii) Chicago Housing Authority's Dearborn Homes; (ix) West Side projects compound problem; (x) Relocation housing; (xi) NYLIC (New York Life Insurance Company) project; (xii) Relocation begins; (xiii) Priority system established; (xiv) Public housing and slum clearance; (xv) Other projects; (c) The operation; (i) Administrative organization for Chicago's relocation activities; (ii) Public agencies; (iii) Private agencies; (iv) General relocation policies; (v) The relocation process; (d) Federal policy; (i) Relocation plan; (ii) Rehousing requirements and assistance; (iii) Methods for coordination (iv) Summary; (e) Conclusions and comments; (i) Historical; (ii) Administration; (iii) Some problems ahead; (iv) Some basic implications of relocation; (f) Bibliography; 6. Eminent Domain in Acquiring Subdivision and Open Land in Redevelopment Programs: A Question of Public Use; (a) Memorandum of law; (i) Statement of the problem; (ii) Proposition; (iii) Summary of argument; (iv) Point I: States and their subdivisions may take private land to provide for public welfare and to secure public benefit; (A) Use by the public is a restraint on private donees of eminent domain, and not on States and their subdivisions; (B) Government and its subdivisions may take land for the purpose of improving living conditions and eliminating blight; (v) Point II: Doctrine of public benefit is firmly established in the Federal courts; (vi) Conclusion; (b) Social and econ-

omic material; (i) Introduction; (ii) Point III: Social and economic evils flow from premature land subdivision, and from the lack of planned development of vacant land; (A) The condemnation of such land and its resale for private or public development in accordance with a plan for sound community growth is reasonably related to the public welfare; (B) Land use and problems of urban planning and growth; (C) Condemnation of open and predominantly open land needed for sound community growth would confer a substantial public benefit; 7. Acknowledgments. NOTE: The authors of the individual "parts" of this work are as follows: Part I: Mr. Twichell; Part 2: Mr. Ludlow; Part 3: Mr. Ascher; Part 4: Mr. Slayton; Part 5: Mr. Meltzer and Miss Orloff; and Part 6: Mr. Robbins and Miss Yankauer.

ABSTRACT. This volume is a product of the Urban Redevelopment Study (1948-1951), made possible by a grant of \$100,000 authorized in June 1948 by The Spelman Fund of New York, to Public Administration Clearing House as trustee. The study was conducted under the supervision of the Director of the Public Administration Clearing House, the Executive Director of the American Society of Planning Officials and the National Association of Housing Officials and two associates. The Administrative Committee consisted of the following persons: Herbert Emmerich, Chairman (PACH); Charles B. Bennett, Director of Planning, City Planning Department, Los Angeles, California; Walter H. Blucher (ASPO); Robert D. Sippel and John M. Ducey (NAHO); Ernest J. Bohn, Director, Cleveland Metropolitan Housing Authority, and Chairman, City Planning Commission, Cleveland; and Coleman Woodbury.

## PART III

### (a) Structural Design

(121) STRENGTH OF HOUSES: APPLICATION OF ENGINEERING PRINCIPLES TO STRUCTURAL DESIGN by Herbert L. Whittemore, John B. Cotter, Ambrose H. Stang, and Vincent B. Phelan. Building Materials and Structures Report BMS 109; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 1, 1948.—132 pages; price: \$1.50. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

The items considered (with the finer sub-sections omitted) include: 1. Introduction; 2. Outline of Method for Determining Strength of Houses; (a) Load; (b) Design load; (c) Racking load; (d) Allowable load; 3. Dead Load; 4. Floor Load; 5. Wind Load; (a) General; (b) Velocity pressure; (c) Relation between velocity pressure and wind load; (d) Discussion; (e) Precise wind load; (f) Approximate wind load; (g) Comparison with authorities; (h) Combined and design wind load; 6. Snow Load; (a) Basic snow load; (b) Comparison with authorities; (c) Snow load on sloping roof; 7. Water Load; 8. Assumptions; 9. Conventions; (a) Definitions; (b) General; (c) Elements; 10. Reactions on Elements of House; 11. Roof; (a) Sloping roof with no horizontal reaction from gable; (b) Sloping roof with horizontal reactions from gable; (c) Projecting roof; 12. Hip and Valley Rafters; (a) Auxiliary roof members; (b) House with hip roof; (c) Loads on south roof; (d)

## PLANNING and DESIGN

Loads on hip roof; (e) Reactions on hip roof; (f) Loads on wall; (g) Loads on hip rafter; (h) Loads on fastenings; (i) Combined loads on hip rafter; (j) Total loads on hip rafter; 13. Walls; (a) Design loads; (b) Walls which have no openings; (c) Walls which have openings; 14. Partitions; (a) Load-bearing partitions; (b) Nonload-bearing partitions; 15. Floors; (a) Design load; (b) No partition above floor; (c) Partition above floor; (d) Floor with opening; (e) Floor with stair opening; 16. Weights of House Constructions; (a) Description of constructions; (b) Weight; (c) Walls; (i) Wood; (ii) Steel; (iii) Masonry; (d) Load-bearing partitions; (e) Nonload-bearing partitions; (i) Wood; (ii) Steel; (iii) Masonry; (f) Roofs; (i) Wood; (ii) Steel; 17. Variations in Strength of House Constructions; (a) General; (b) Comparison of Variations in Strength; (c) Relation of Materials to variations; (d) Relation of Workmanship to variations; 18. Allowable Loads on House Constructions; (a) General; (i) New materials; (ii) Fastenings; (iii) Unusual structural members; (iv) Stressed-skin constructions; (b) Efficient use of material; (c) Criteria for allowable loads; (d) Loads; (e) Distribution of criteria; (f) Cracks in plaster; (g) Graphs of allowable loads; (h) Relation of materials and design to allowable load; (i) Walls; (ii) Load-bearing partitions; (iii) Nonload-bearing partitions; (iv) Floors; (v) Roofs; (i) Relation of materials and design to allowable load-weight ratio; (i) Walls; (ii) Load-bearing partitions; (iii) Nonload-bearing partitions; (iv) Floors; (v) Roofs; (j) Allowable loads for constructions not having standard height or span; (i) Compressive load; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (v) Racking load; 19. Comparison of Allowable Loads with Design Loads for Typical Houses; (a) Objective; (b) Typical houses; (i) Constructions; (ii) Locations; (c) Utility factor; (d) Direction for design loads and fastenings; (e) Relation of allowable transverse load to span; (f) Roof; (i) Strength; (ii) Roof fastenings; (iii) Utility factor for all

22049: (g) Gables; (i) Strength; (ii) Fastenings; (h) Attic floor; (i) House 22-D, one story (j) House E, second story; (k) House E, first story; 20. Conclusions; (a) Wind map; (b) Velocity pressure vs. wind load; (c) Snow map; (d) Engineering principles; (e) Design load; (f) Typical design load; (g) Fastenings; (h) Tests for strength; (i) Allowable load; (j) New approach to house design; and 21. Selected References.

**ABSTRACT.** Strength of houses in the past has been made adequate by patterning them after those which have withstood the test of service conditions. Architects and builders of small structures have followed closely traditional methods handed down from the craftsmen of medieval England. From these traditions, cities have crystallized building codes now enforced under the police power of the community. The trend for the immediate future indicates that adequate houses so constructed as to contribute in greater measure to the welfare of the occupants by bringing more of the out-of-doors into the house. Wider windows to give more sunlight and allow stimulating vistas of garden, trees, and flowing water; larger rooms and movable partitions; and walls, floors and roofs fabricated from plastics and from aluminum and magnesium alloys are some of the improvements anticipated. Library research failed to disclose rational methods for determining the strength of present-day houses and little in that respect that could be applied to house design for the future. This report is an attempt to apply engineering methods to the design of houses for strength. Fundamental data for wind, snow, and floor loads have been reviewed and convenient methods developed for computing applied loads. The engineering approach to strength of houses described in this report, it is thought, will open the way for designers to introduce unconventional materials and unusual methods of fabrication by determining in the laboratory whether constructions have the necessary strengths, thus greatly shortening the time required to develop and obtain acceptance of new constructions for houses. Some approach along rational lines is necessary if houses are to benefit from the fund of technical information now available on materials and methods of manufacture being utilized for other commodities. It is time that the strength of houses be given careful engineering scrutiny—not because houses need be stronger, for few fail—but to judge how much material is superfluous. Material is costly as is the labor required to shape and fit it into place. Hence this report describes and illustrates methods for designing small houses to have adequate strength without waste of material. For each element of a house, compressive, transverse, and racking loads were computed by the accepted principles of mechanics for typical one- and two-story frame houses in several locations representative of extreme wind and snow loads in the United States. Allowable loads for the 100 wall, partition, floor, and roof constructions included in the "structural properties" Building Materials and Structures Reports are compared with design loads for two houses in three locations. The comparison shows that some had insufficient strength, while others were much stronger than is necessary. The application of engineering principles to the design of houses presents a complete and logical method for determining allowable loads for walls, floors, and roofs, and makes it practicable to develop house constructions that have sufficient strength and require the least amount of material.

(122) "DESIGN FOR LIVABILITY" by Bernard Wagner, in (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 1-10; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 20¢. This article alone is available for 15¢ as H.H.F.A. Technical Reprint No. 12. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Orientation—Which Way?; 3. Four Orientation Conditions; (a) Plan A: Street extends East-West; approach to lot and house from the South; (b) Plan B: Street extends East-West; approach to lot and house from the North; (c) Plan C: Street extends North-South; ap-

proach to lot and house from the East; (d) Plan D: Street extends North-South; approach to lot and house from the West; 4. Practical Application of Principles.

**ABSTRACT.** This article is illustrated with four figures, four plans, and a subdivision layout. The space diagrams shown (some of which appeared in H.H.F.A. Technical Bulletin No. 2, January 1948) present a method of graphically summarizing some of the more important problems which should be considered before starting to plan.

(123) PLANNING THE EXPANSIBLE HOUSE: 6 SCHEMES FOR HOUSES THAT GROW—Prepared by the staff of the National Housing Agency; published by the Housing and Home Finance Agency, Technical Office, Washington, D. C., August 1947.—30 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Expansible House—The House That Grows With the Family; 2. The Expansible House Must Be Planned From the Beginning; 3. Squaring the Dream With the Realities; (a) The lot; (b) Community restrictions; (c) The expansible house may not be expanded; (d) Financing the expansible house; (e) The cost; 4. The Six Schemes; (a) Scheme 1. Planned for privacy on a narrow lot; (b) Scheme 2. A one-story house with principal rooms on the garden side; (c) Scheme 3. A house planned for sunshine, air and many views; (d) Scheme 4. This house divides as well as adds when more bedrooms and living amenities are required; (e) Scheme 5. A two-story "house that grows"; (f) Scheme 6. A more extensive use of the expansible house idea.

**ABSTRACT.** A planning guide for expansible houses presenting schematic plans which will provide all essential living facilities for a small family now, and that can be logically expanded as family needs grow. This guide was prepared in response to widespread interest among veterans for a guide of this sort. Houses that expand by completing an unfinished attic or by adding a bedroom are well known. Present-day building prices, however, have stimulated interest in applying the expansible idea to other kinds of houses. Planning a one-bedroom house that can be extended to meet the increasing needs of a family is an enterprise that requires forethought, the best possible assistance in design, consideration of the house's place in the community and the regulations that may apply to it, and a careful study of financing problems. This booklet aims to stimulate interest in the expansible house idea, and to give a general non-technical introduction to this aspect of home building.

(124) "GREATER LIVABILITY AT SMALL ADDITIONAL COST"—Author not named. In (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. This article alone is available for 15¢ as H.H.F.A. Technical Reprint No. 13. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of five different arrangement schemes, with a discussion of the advantages of the improved layout for each scheme.

**ABSTRACT.** The smaller differences in the costs of typical and improved designs compared with the differences in space are due to the fact that the changes in size do not require any more windows, doors, stairs, bath, kitchen, plumbing, heating and electrical equipment, nor any great increase in installation costs. Practically the only changes that occur are the added quantities of the framing and finish items. In order to demonstrate this and to compare the increases in cost with those in livability, comparative analyses have been made of five dwelling designs that are frequently used in various row, terrace or garden apartment developments.

(125) STANDARDS FOR HEALTHFUL HOUSING: PLANNING THE HOME FOR OCCUPANCY by the American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1950.—56 pages; price: \$2.50. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

Includes a consideration of: 1. The Problems of Home Planning; (a) Health implications of adequate dwelling space; (b) Basis of dwelling space standards; (c) Applicability of standards; (d) Trends in population and family characteristics; (e) Changing pattern of living; (f) The need for flexibility; 2. Provision of Adequate Dwelling Space; (a) Adequacy of dwelling space; (b) A dwelling unit for each family; (c) Provision for household activities; (d) Provision for suitable conditions of temperature and light; (e) Provision for sanitation and health; (f) Provision for protection against accidents; (g) Provision for privacy and personal satisfaction; 3. Basic Functional Space Needs; (a) Space for Living; (b) The problems of storage; (c) Criteria of Adequacy; (d) Space for sleeping and dressing; (e) Space for personal cleanliness and sanitation; (f) Space for Food Preparation and Preservation; (g) Space for serving food and dining; (h) Space for family recreation and self-improvement; (i) Space for extra-familial association; (j) Space for housekeeping activities; (k) Space for infant care or care of the sick; (l) Space for circulation between various areas of the dwelling; (m) Space for operation of utilities; (n) Total space for the dwelling; 4. Development of Space Within the Dwelling; (a) Allotment of Functional Space to Specific Rooms; (b) Storage; (c) Ceiling heights; 5. Relationship of Rooms to Each Other and to the External Environment; (a) Interrelation of the various rooms of the dwelling; (b) Protection against noise and invasions of privacy; (c) Importance of natural illumination; (d) Importance of cross and through ventilation; (e) Provisions for egress; (f) Relations to the external environment; (g) Advantages and disadvantages of various dwelling types.

**ABSTRACT.** This, the second in the series of volumes on Standards for Healthful Housing, is a contribution of the Subcommittee on Occupancy Standards, of which Abner D. Silverman was Chairman. The other members of the Subcommittee were: Catherine Bauer, F. Stuart Chapin, Henry S. Churchill, R. L. Davison, Clarence W. Farrier, Blanche Halbert, Eugene Klaber, Catherine L. Oats, Sverdrup Biemer, Mary Rokahr, Harold Sandbank, Clarence S. Stein. The report was prepared by C.-E. A. Winslow, Eleanor M. Watkins, and Carl W. Andersen, with the use of certain materials collected by Anatole A. Solow and Ann Copperman.

(126) SPACE AND EQUIPMENT FOR RENTAL HOUSING—Prepared and published by Federal Housing Administration, Washington, D. C., 1950.—40 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Kitchens; (a) Basic kitchen equipment; (b) Kitchen plans; (c) Comparative analysis of kitchen plans; 2. Dining Spaces; (a) Dining space plans; (b) Comparative analysis of dining space plans; 3. Bathrooms; (a) Dimensions of bathroom fixtures commonly used in rental housing; (b) Bathroom plans; (c) Faults in location of bathroom fixtures and accessories; (d) Comparative analysis of bathroom plans; (e) Bathroom considerations; (f) Miscellaneous; 4. Public Stairs; (a) Inside and outside main public stairs; (b) Double-run stairs; (c) Single-run stairs; (d) Service stairs; (e) Comparative analysis of public stairs; 5. Parking and Garages; (a) Street and compound parking; (b) Parking in basements; (f) Parking with columns; (ii) Parking without columns; 6. Small Urban Lots.

**ABSTRACT.** The object of this pamphlet is to aid the planner in obtaining the most efficient use of space and equipment in rental projects in order to assure maximum livability at minimum cost. The success of a project is dependent upon competent planning that



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- (127) "ECONOMIES OF ROW HOUSES FOR RENTAL PROPERTIES" by Bernard Wagner; in *Technical Bulletin No. 14*, pages 1-14; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. This paper alone is available for 15¢ as H.H.F.A. Technical Reprint No. 10. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Two-Story Row House; (a) Cost-Saving Methods; (b) Basic row-house types; (i) Private garden; (ii) Public access; (iii) The 20-foot row house; (iv) The 25-foot row house; (v) The 30-foot row house; (vi) Living habits; (vii) Plot plan; 2. The One-Story Row House. ABSTRACT. This study presents a series of one- and two-story designs developed for economical site fabrication and prefabrication. Several combinations of readily available materials and construction methods are possible.

- (128) ROOF GUTTERS (Construction Aid 2)—Prepared by the H.H.F.A. Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.,—June 1952,—11 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. A guide to the use of alternate materials to conserve critical metals and reduce costs of roof gutter construction. Several methods for handling roof drainage are shown.

- (129) HOUSE AND SITE UNITED (Construction Aid 3)—Prepared by the H.H.F.A. Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.—June 1952,—27 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Topography; (a) Preserve the natural contours of the land; (b) Economical excavation; (c) Drainage pointers; 2. Put the Right House on the Lot; (a) Use a topographical survey and a site plan; (b) Should there be a basement?; (c) Select the right house type—it's generally more economical; (d) Dos and don'ts; 3. Orientation for Sun and Wind; (a) Cooperate with nature and benefit from it—Disregard it and suffer the consequences!; (b) Use these factors in orienting house and lot; 4. Use All of the Lot; (a) Divide the lot into three outdoor areas; (b) Wasted land is wasted money; (c) Overcome the sharp demarcation between indoors and outdoors; 5. Privacy for Eye and Ear; (a) Why is it needed?; (b) How do we get privacy?; 6. Outlook; (a) Capitalize on the good view—Screen out the bad; 7. Site Utilities (a) Some good practice tips; 8. Landscaping; (a) Save and use existing trees and

large plants; (b) Topsoil is valuable—store it during construction; (c) Use a planting scheme and make it simple; 9. To Sum it Up.

ABSTRACT. A guide to the elimination of waste in manpower and materials and to obtain a better product at reduced cost through proper planning of the house and site. Eight important factors in planning are discussed.

- (130) "CHIMNEY LOCATION"—(a) Part 1, in *Housing Research* for October 1952, pages 57-58; (b) Part 2, in *Housing Research* for March 1953, pages 59-60; author not named; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢ per issue. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Brief suggestions, illustrated by diagrams, intended as a practical money and materials saver for the home builder.

- (131) "SAVING COPPER IN HOUSE WIRING"—(a) Part 1: "Service Entrance Cable," in *Housing Research* for October 1952, page 59; (b) Part 2: "Fixed Appliance Circuits," in *Housing Research* for March 1953, pages 61-62; author not named; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C. Price: 30¢ per issue. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Brief suggestions, illustrated by diagrams, intended as practical money and materials savers for the home builder.

- (132) DESIGN DATA FOR SOME REINFORCED LIGHTWEIGHT AGGREGATE CONCRETES by Robert C. Reichel, Structural Engineer, Division of Housing Research, Housing and Home Finance Agency. The investigations on which this report is based were performed in the laboratories of the National Bureau of Standards, U. S. Department of Commerce, by William C. Green and D. Watstein, under the general direction of Douglas E. Parsons, Chief of Building Technology at the Bureau; published by the Housing and Home Finance Agency, Division of Housing Research, in October 1953, as its "Housing Research Paper No. 26,"—19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Test Specimens; (a) description of Materials; (b) Preparation and Proportioning of Aggregates; (c) Mixing Procedure; (d) Casting of Test Specimens; (e) Curing of Test Specimens; 3. Description of Tests; (a) Compressive strength; (b) Flexural strength; (c) Shearing strength; (d) Bond strength; (e) Modulus of elasticity; (f) Drying shrinkage; (g) Thermal conductivity; 4. Results and Observations; 5. Discussion; and 6. Conclusions and Recommendations.

ABSTRACT. This report is based on one of a series of investigations aimed at improving the quality and economy of construction utilizing lightweight aggregate concretes. It is limited to reinforced relatively low-strength mixes (below 2,000 p.s.i.) used monolithically in a structure as distinguished from masonry units. Coordinated factual data are presented on the structural and physical properties of nine mixes for each of three types of aggregates used. The significance of these data for practical applications is summarized, permitting an evaluation of the suitability of these concretes for any specific structural use. The investigation was sponsored by the Housing and Home Finance Agency under a research contract.

- (133) "WILL SCIENCE PLAN THE HOME OF TOMORROW?" by George A. Speer; in *Housing Research*, Spring 1952, pages 39-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Study of Existing Information; 2. Family Preferences; 3. Most Wanted House; 4. The "Space Use Laboratory" in Action; 5. Size and Location of Rooms Vary; and 6. Conclusions.

ABSTRACT. Under an H.H.F.A. research project, a most unusual "space use laboratory" has been devised at the Small Homes Council, University of Illinois. It will evaluate the effect of residential space arrangement upon living habits. This article discusses the results of careful research into expressed preferences of families included in many housing surveys since 1936, and then describes how this information will be used in the "space use laboratory." If the experiment is successful it will develop a technique for truly scientific space planning which may pay big dividends in conservation of materials and manpower during an emergency. The article is illustrated by five photographs.

- (134) STANDARDS FOR HEALTHFUL HOUSING: CONSTRUCTION AND EQUIPMENT OF THE HOME by the American Public Health Association, Committee on the Hygiene of Housing; published by Public Administration Service, 1951.—77 pages; price: \$2.50. Order copies from Public Administration Service, 1313 East Sixtieth Street, Chicago 37, Illinois.

Includes a consideration of: 1. The Structural Framework of the Dwelling; (a) Housing and health; (b) Dollar values and human values; (c) The dwelling and its environment; (d) The structural shell of the house; (e) The walls and roof; (f) The influence of window design and orientation; (g) The Committee's approach to the problem; 2. Problems of Heating and Ventilation; (a) Objectives of air conditioning in the home; (b) Physiological relations of man to his thermal environment; (c) Standard thermal conditions for comfort in the home; (d) Site planning in relation to thermal conditions in the home; (e) Relations of building construction to thermal conditions in the home; (f) Available types of equipment for winter heating; (g) Health characteristics of various methods of heating the home; (h) The problems of summer air conditioning; 3. Provision of Adequate Illumination; (a) The purposes of illumination; (b) The physiology of vision; (c) Standards for adequate illumination; (d) Natural light; (e) Artificial illumination; 4. Control of Noise; (a) Purposes of noise control; (b) General aspects of the noise problem; (c) The establishment of rational criteria; (d) Methods of noise control; 5. Provisions for Sanitation in the Home; (a) The problems involved; (b) Provision for cleanliness within the dwelling; (c) Provision of hot water; (d) Standards for the plumbing system where water carriage is available; (e) Disposal of excrete where no supply of water under pressure is available; (f) Exclusion of vermin from the dwelling; (g) Disposal of garbage; (h) Storage and refrigeration of food; 6. Equipment Essential for Good Housekeeping; (a) Scope of the chapter; (b) Food handling equipment; (c) Home laundering facilities; 7. Safety in the Home; (a) Extent and nature of the problem; (b) General structural safety; (c) Protection against fire hazards; (d) Stairways; (e) The problem of flooring; (f) Windows and doors; (g) Electrical equipment; (h) Protection against gas poisoning; (i) Safety in the kitchen; (j) Safety in the bathroom; (k) Adequate storage as a safety factor; (l) Problems of outdoor safety; (m) Provision of safe play areas; 8. The Development of Legal and Administrative Standards for Dwelling Construction; (a) Principles of regulation in American municipal and administrative law; (b) The regulation of building construction; (c) Defects in our present system of regulation; (d) Specification

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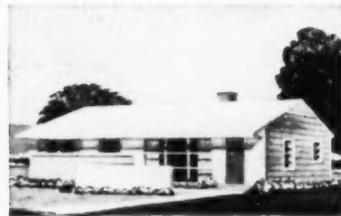
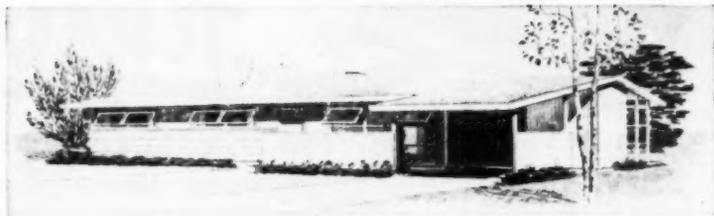
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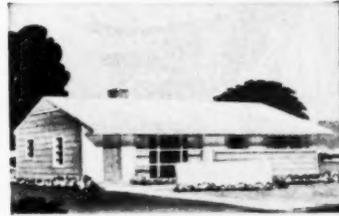
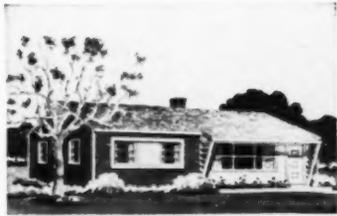
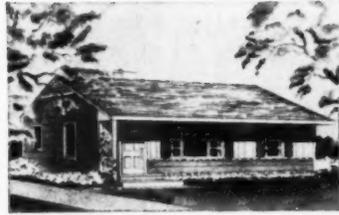
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codes and performance codes; and (e) Essential conditions for the operation of a performance code. NOTE: The work also contains the following Tables and Figures: TABLES: 1. Heat interchange between the human body and its environment; 2. Levels of illumination for the home; 3. Available daylight illumination from whole clear sky in the U. S.; 4. Requirements for providing various levels of illumination; 5. Comparison of luminaire types; 6. Effect of decoration on the efficiency of artificial lighting; 7. Suggested electrical outlets for residences; 8. Comparative brilliance of light sources; 9. Guide to portable lamps and bulb sizes; 10. The recommended noise standards for housing sites; 11. The recommended noise isolation standards for construction. 12. The proposed standards for sound absorbing finishes and furnishings. FIGURES: 1. Control of light in the visual field; 2. Distribution of light in the visual field; 3. Brightness contrasts in the visual field; 4. Sound level scale in decibels; 5. Sound levels of vehicular traffic in decibels; 6. Variations in sound levels of vehicular traffic in decibels; 7. Average background sound levels in decibels; 8. Qualitative zones of relative comfort in residential rooms; and 9. Average transmission loss for typical wall and floor constructions.

**ABSTRACT.** This third-and final-volume of the series differs from the two earlier reports in that it deals not with a single, more or less uniform topic but with a series of special problems, each of which has been prepared by a specialist in the field concerned. This volume was prepared for the Committee on The Hygiene of Housing as a contribution of its Subcommittee on Construction and Equipment. The members of this sub-committee were: Henry S. Churchill, Chairman (who wrote Chapter 1 concerning the structural framework), Carl F. Boester, Richard H. Bolt (who cooperated with Robert B. Newman in writing Chapter 4 concerning the control of noise), Elisabeth Coit, Robert L. Davison, Thomas Fansler (who wrote Chapter 7 concerning safety in the home), Clarence W. Farrier, Mary Rokahr, Enid Sater Ross (who wrote Chapter 6 concerning equipment), Donald Y. Solandt (who wrote Chapter 3 concerning illumination), Miles A. Tinker, Howard P. Vernilya (who wrote Chapter 8 concerning standards), Maude Wilson, and Douglas Orr. Chapters 2 (concerning heating and ventilation) and 5 (concerning sanitation) were written by Professor C.-E. A. Winslow. For the first and second reports in this series, see items (92) and (125) of this reading list.

(135) **LIVE LOADS ON FLOORS IN BUILDINGS** by John W. Dunham, Guttorm N. Brekke, and George N. Thompson; Building Materials and Structures Report BMS 133; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 19, 1952.—27 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Residential Occupancy; 3. Business Occupancy; (a) Offices; (b) Method of conducting surveys; 4. Mercantile Occupancy; 5. Assembly Occupancy; (a) Schools; (b) Crowded rooms; 6. Institutional Occupancy; (a) Hospitals; 7. Industrial Occupancy; (a) Mattress factory, Chicago, Ill.; (b) Mattress factory, Atlanta, Ga.; (c) Men's clothing factory, New York, N. Y.; (d) Dress factory, Philadelphia, Pa.; (e) Furniture factory, Gettysburg, Pa.; (f) Furniture factory, Grand Rapids, Mich.; (g) Newspaper plant, Washington, D. C.; (h) Printing plant, Washington, D. C.; 8. Storage Occupancy; (a) Warehouse, New York, N. Y.; (b) Warehouse, Washington, D. C.; 9. Variation in Loading; 10. Discussion; and 11. Selected References. **ABSTRACT.** Information is presented on floor loads found in various occupancies such as office buildings, stores, factories, and warehouses. Most of this consists of the results of a recent survey in which the weight and distribution of goods, equipment, and occupants were obtained floor by floor and area by area. Such data are needed as a check on permissible minimum live loads in building codes and as a basis for design of buildings. Although there are indications in

the survey that building codes may set higher figures than are warranted for certain occupancies, the amount of information available is still too small to justify firm conclusions. A method of reducing the assumed value for live load on structural members supporting large floor areas is described. Supplementary investigations of floor loading are recommended to clear up questions that have arisen in connection with the survey. Variations in loading within the same occupancy are shown. It has been found possible to increase allowable stresses for some building materials as a result of better quality control and increased knowledge of strength characteristics. However, loads and stresses are so intimately associated that good information on loads is essential in order to realize the full advantage of economical design and to conserve scarce materials. It is believed that the data presented in this report (covering several occupancies about which detailed information had hitherto been lacking) will assist in accomplishing these objectives.

(136) **PERFORMANCE STANDARDS FOR RELOCATABLE HOUSING**—Prepared and published by Housing and Home Finance Agency, Office of the Administrator, Washington, D. C. Revised Edition, January 1953.—37 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Relocatability; 2. Space and Arrangement; 3. Structural Design; 4. Footings and Foundations; 5. Floors; 6. Weather Resistance; 7. Interior Coverings, Walls, Partitions, and Ceilings; 8. Roofing; 9. Exits, Stairs and Doors; 10. Condensation; 11. Termites and Decay Resistance; 12. Plumbing; 13. Heating; 14. Electrical Requirements; and 15. Miscellaneous. **ABSTRACT.** Relocatable housing is distinguished from conventional fixed-to-site housing only in that it is designed to be readily and economically relocated if necessary. The performance standards described have been based largely on housing Design Standards for Construction by Federal Agencies for Civilian and Military Personnel, prepared by the Division of Housing Research, Housing and Home Finance Agency, November 20, 1951, and on the trial-run of relocatable housing conducted by the Housing and Home Finance Agency and reported in Relocatable Defense Housing, Housing and Home Finance Agency, June 1952.

(151) **"REGIONAL DESIGN CHARACTERISTICS OF NEW HOUSES"** by E. Everett Ashley, 3d, and George R. Kinzie, in *Housing Research*, October 1952, pages 29-33; published by Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Climate, zoning ordinances, and local custom all play their part in influencing design characteristics of our housing. Hence, despite the uniformity of much of our building materials and equipment throughout the country, very definite regional differences exist in the types and character of houses which are built from them. This article points up some of the findings of HHFA's Housing Materials Use Survey. It includes a consideration of: 1. Source of Data; 2. General Housing Characteristics; (The following break-down is given for each of five regions): (a) Number of rooms; (b) Basements; (c) Roofs; (d) Porches and Terraces; (e) Garages and Carports; (f) Window and door screens; and (for the Southern States) (g) Termites protection; and 3. Regional Differences in Installed Equipment.

**NOTE:** For a description of the above survey and certain over-all statistics developed from it, see the article "Surveying Materials Used in House Construction" by Max Lipowitz and Winfield Best, in *Housing Research*, Fall 1951, which is cited in the present reading list as item (153). See also item (751) "The Materials Use Survey—a Study of the National and Regional Characteristics of One-Family Dwellings Built in the United States in the First Half of 1950" by E. Everett Ashley, 3d, Philip A. Randall, George R. Kinzie, and Robert L. Strelitz.

# HOW SUCCESSFUL BUILDERS CASH IN ON G-E HOME HEATING and COOLING



One of the completely G-E Air Conditioned ranch-style homes built by James D'Agostino at Stonehurst Manor, Tenafly, N. J.

More and more successful builders are cashing in on G-E Home Heating and Cooling. New Jersey builder James D'Agostino is typical. His first G-E-equipped development was such a resounding success, G-E Air-Wall\* Heating and Cooling became a "must" for his newest project, Stonehurst Manor. Mr. D'Agostino says: "When it comes to heating and cooling equipment, there's double magic in General Electric. In advertising, it labels the quality-built home, and increases turnouts. In the model home, it helps clinch sales."

## IT PAYS 8 WAYS TO SELECT "G.E."

**1. Saves installation costs.** G-E Air-Wall System's 4" ducts save headroom in basements—can be installed in crawl space—cuts concrete needed in slab construction. Perfect for heating and cooling—same ducts and registers deliver both!

**2. Saves floor space.** Imagine—G-E Downflow Year-Round Air Conditioner for 6-room basementless house takes only 6 sq. ft. of floor space. G-E Hori-

zontal unit takes no floor space—hangs from ceiling or in crawl space.

**3. Gives builder flexibility.** G-E "3-D" line features every practical size and type of Oil Furnace, Gas Furnace, Home Cooling Unit, and Year-Round Air Conditioner—with airflow available in any of three directions: upflow, downflow, horizontal. Choice of air-cooled or water-cooled Home Cooling Units. Gas or Oil Boilers, too!

**4. Provides expert installation.** G-E dealers' installation and service personnel are factory-trained.

**5. Assures dependable performance.** Every unit backed by G-E Warranty plus dependable dealer organization.

**6. Catches customer's eye**—in your ads and model homes. Smart, space-saving units. Handsome Air-Wall registers eliminate carpet-cutting, permit freedom of furniture placement. Wonderful fuel economy too!



MR. D'AGOSTINO appreciates space-saving design of G-E Year-Round Air Conditioning.

**7. Nationally advertised** in magazines directed to homeseekers.

**8. Builds public acceptance** of your homes. Independent surveys prove General Electric enjoys more positive good will than any of the other companies surveyed—which represent the leaders of American industry.

For full information on how G.E. can serve you, send in the coupon today!

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 **AIR WALL** <sup>3"</sup>

**HOME HEATING AND COOLING**  
—the line designed with the builder in mind

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General Electric Company, Bloomfield, N. J.

Rush your detailed booklet, "If You Were the Buyer instead of the Builder."  
I am a Builder  Architect  Home owner  Other occupation .

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COMPANY .....

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CITY .....

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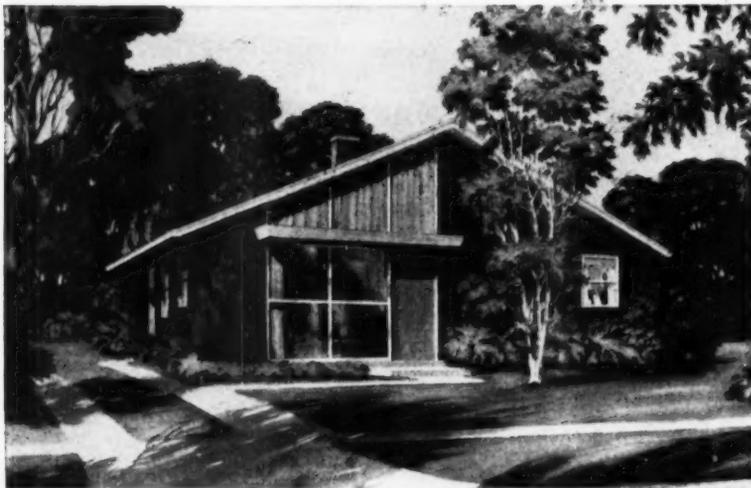
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This Garling Studio House is equipped with Fleetlite double, double hung aluminum windows and picture windows.

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• Garling features Fleetlite windows in new Detroit homes. It's a story of quality, beauty, fuel economy, convenience and lasting freedom from maintenance. They're telling the story and demonstrating the many features over TV; they're dramatizing the complete homes and windows in their newspaper ads.

## Saves Time on the Job

• Fleetlite windows are completely assembled and glazed in the factory. They are shipped in corrugated containers ready to nail into place after walls are erected. Time and skilled labor are saved on the job.

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Territories open for full time factory representatives and dealers.



Nationally Advertised  
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FLEET OF AMERICA, INC. • 112 Pearl Street, Buffalo 2, New York

(152) "REGIONAL PATTERNS OF MATERIALS USED IN NEW HOUSES" by George R. Kinzie; in *Housing Research*, Winter 1951-1952, pages 31-36; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Water Systems; 2. Roof Covering; 3. Interior Wall and Ceiling Finish; 4. Kitchen Cabinets; 5. Heating Equipment; 6. Gutters and Downspouts; 7. Screening Material; 8. Ceiling Insulation; 9. Interior Wiring; and 10. Design Characteristics. ABSTRACT. To what extent are asphalt shingles used in recently-built houses, and in what parts of the country are they used most? How about regional variations in materials used for roof gutters, screening, water systems, and other house-construction elements—especially those involving scarce metals? Facts answering these questions are useful to materials and equipment manufacturers, dealers, and home builders, as well as to government officials concerned with materials requirements for housing during an emergency. In this article these facts have been selected from results of the HHFA Housing Materials Use Survey.

(153) "SURVEYING MATERIALS USED IN HOUSE CONSTRUCTION" by Winfield Best and Max Lipowitz; in *Housing Research*, Fall 1951, pages 35-40; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sketch of Selected Initial Results; (a) Fuel used for heating new houses; (b) Materials used for house water piping; (c) One-story vs. two-story houses; (d) Basements vs. no basements; (e) Number of rooms per house; (f) Floor area per house; 3. Technical Note—Planning and Processing the Survey; (a) Planning the survey; (b) Development of sample; (c) Adjustments to the FHA sample. ABSTRACT. The HHFA Materials Use Survey described here is the first of its kind ever attempted on a comprehensive basis to permit computations of all materials used in all United States single-family detached houses built during a certain period. The results are already being used to calculate future housing materials requirements. Planning and development of the survey was handled by the Economics and Technology Branches of the HHFA Division of Housing Research. Mr. Lipowitz and Philip Randall were HHFA staff technicians for the survey.

(161) WATER-DISTRIBUTING SYSTEMS FOR BUILDINGS by Roy B. Hunter; Building Materials and Structures Report BMS 79; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 5, 1941.—25 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of the Investigation; 3. Basis for Estimates of Capacity; (a) Pipe formulas; (b) The rational pipe formula; (c) Approximate formula for smooth pipe; (d) Approximate formulas for rough pipe; (e) Graphical presentation of flow formulas; 4. Estimates of Capacities of Pipes in Service; (a) Methods of allowing for decrease in capacity with age; (b) Decrease in capacity relative to changes in roughness and diameter; (c) Allowances for decrease in capacity under particular service conditions; (d) Decrease in capacity of small galvanized-steel and nonferrous pipes due to aging; (e) Facts regarding corrosion and caking; 5. Selection of Sizes of Water-Supply Pipes; (a) Essential steps in selecting serviceable pipe sizes; (b) Method of making demand estimates; (c) Estimation of pressure available for friction loss

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**EXAMPLE:** Dawn Construction Co., Knoxville, Tenn. saves from \$120 to \$200 per home, using fir plywood for wall and roof sheathing, subflooring, paneling, built-ins and exterior trim.

**REASON:** time and labor savings more than offset slight extra initial fir plywood cost, result in *lower in-place* cost.

**PLUS FACTOR:** superiority of fir plywood construction offers convincing sales-story to prospective buyers.

**ON YOUR NEXT JOB,** figure it *both* ways—fir plywood vs. lumber or other material. Add up the costs—material, labor, waste, nails and overhead. See how fir plywood gives you a clear cut advantage when it comes to cost-in-place as well as performance and durability.

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in pipes; (d) Pressure loss in water meters; (e) Example illustrating steps in selecting sizes of water-supply pipes; (f) Demand estimates and pipe sizes for particular types of buildings; (g) Networks of pipes in water-distributing systems; 6. Conclusions; 7. Appendix; and 8. References.

**ABSTRACT.** This report gives information relating to the selection of pipe sizes and design of distributing systems for adequate supply of water in buildings. It contains flow charts showing the capacities of different commercial sizes of pipe in terms of friction loss in head for four degrees of roughness, depending on the pipe material and the character of water with which the pipe is used. A practical procedure is developed for the economical selection of pipe sizes for the different demands for each part, depending on the estimated demand and on the pressure available for friction loss as computed for particular service conditions. Suggested variations in the procedure provide convenient means of allowing for decrease in capacities of pipes in service. One of the difficult design problems involved in the economical construction of water-supply systems in buildings is the selection of the smallest sizes of pipes for the various parts of the system that will assure an adequate supply of water at all outlets in the building under particular service conditions, such as the available service pressure and difference in elevation between the source of supply and the fixtures. The most difficult aspect of the problem arises from the fact that it is not sufficient to provide for an adequate supply when the pipes are new, but that a suitable allowance must be made for the deterioration in capacity caused by the aging of the interior surface of the pipes with age. This involves the choice of materials for the pipes which will be best adapted to the characteristics of the particular water that will be used.

**NOTE:** An earlier report BMS 65 (item 241 of this reading list) gives a method of estimating water demand loads, based on the number and kind of fixtures installed in the plumbing system.

- (162) "WATER FLOW RATES IN PIPING" by Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950, pages 17-19; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

**ABSTRACT.** This article is intended as a brief introduction to the use of the terms "fixture unit" and "fixture unit rating."

- (171) SNOW LOAD STUDIES by U. S. Weather Bureau specialists, etc. (See below); published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1952, as "Housing Research Paper No. 19."—19 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. General Approach; 2. Snow Pack Characteristics; 3. Maximum Snow Pack Weight; 4. Limits of Accuracy; 5. Design Load; 6. Frequency Analysis; 7. Failure Load; 8. Maximum Probable Snowstorm; 9. Interpretation of Results; 10. Flat Roofs; 11. Sloping Roofs; 12. Vertical, Wind, and Earthquake Combinations; 13. Appendix A: Controlling Snowstorms; 14. Appendix B: References.

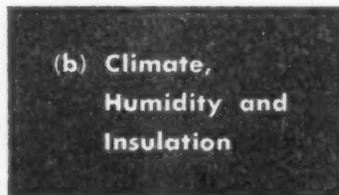
**ABSTRACT.** This paper presents a research study on snow loads, a subject on which only limited factual data have heretofore been available to those responsible for establishing safe design loads for buildings. The study was developed under the direction of Merrill Bernard, and later W. E. Hiatt, both of the Weather Bureau, U. S. Department of Commerce, under an H.H.F.A. research project. J. T. Walser of the Weather Bureau was project leader, and was assisted by many able Weather Bureau specialists such as W. T. Wilson, R. D. Tarble, L. H. Paulhus, M. A. Kohler, C. S. Gilman, R. W. Schloemer, and R. F. Kresge. A suggested interpretation of results, as they apply to safe design

loads for roofs, prepared by William A. Russell, H.H.F.A. structural engineer, is included.

- (172) "SNOW LOAD STUDIES" by William A. Russell; in *Housing Research*, Spring 1952, pages 53-57; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,

Includes a consideration of: 1. Introduction; 2. General Approach; 3. Design Load; 4. Frequency Analysis; 5. Failure Load; 6. Interpretation of Results; 7. Suggested Design Loads; 8. Vertical, Wind, and Earthquake Combinations; 9. Sloping Roofs; and 10. Acknowledgments.

**ABSTRACT.** This article, illustrated by figures and tables, presents a brief summary of a research study on snow loads, a subject on which only limited factual data have heretofore been available to those responsible for establishing safe design loads for buildings. The study was made by many able specialists of the Weather Bureau, U. S. Department of Commerce, under a research project, sponsored by the Housing and Home Finance Agency. A detailed report of this study, together with a suggested interpretation of results, is contained in *Housing Research Paper No. 19*, for which see item (171) of this reading list.



- (181) CLIMATE AND ARCHITECTURE: SELECTED REFERENCES—A bibliography prepared (in the Library of the Office of the Administrator, Housing and Home Finance Agency) by Miss Marie G. Abbruzzese, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1951.—20 pages; price: not stated. Order copies from the Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Climate Control Projects; (a) House Beautiful magazine (items 1-42); (b) Bulletin of the American Institute of Architects (items 43-53); 2. Background in Science: (a) Climatology (items 54-59); (b) Microclimatology (items 60-63); (c) Weather Data (items 64-72); (d) Effect of Climate on man (items 73-80); 3. Designing with Climate: (a) Theory (items 81-89); (b) Practice (items 90-141, covering the following 16 States: Arizona, California, Colorado, Connecticut, Florida, Illinois, Kansas, Maine, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Texas, Washington, and Wisconsin); 4. Research and Experiment: (a) The winter sun (items 142-148); (b) The summer sun (items 149-163); (c) Ventilation (items 164-171); and (d) Wind (items 172-175); and 5. Index.

**ABSTRACT.** A comprehensive bibliography of 175 articles and other published works dealing with various phases of climate and architecture appearing in magazines, papers, periodicals, and books, domestic and foreign. One section is devoted to the Climate Control Project of the "House Beautiful" magazine, with a chronological list of the nontechnical articles in that periodical, and a supplement to this group of technical reports issued by the American Institute of Architects. It was prepared for the HHFA Division of Housing Research by the Library, Office of the Administrator, HHFA.

- (182) CLIMATE AND ARCHITECTURE by Jeffrey Ellis Aronin; published by Reinhold Publishing Cor-

poration, 330 West 42nd Street, New York 36, N. Y., 1953—304 pages; price: \$12.50.

Includes a consideration of: 1. Background; 2. The Sun; (a) Effect of the sun on the earth; (b) Design and the sun; (i) The individual unit; (ii) Housing layouts; (iii) City planning; 3. Temperature; (a) Recording the temperature; (b) Design and temperature; (i) Macroclimatic air; (ii) Microclimatic air; (c) Related phenomena; 4. Wind; (a) Measuring the wind; (b) Design and the wind (i) Macroclimatic wind; (ii) Microclimatic wind; (iii) Individual buildings; (iv) Site, city, and town planning; 5. Precipitation; (a) Types of precipitation; (b) Measuring precipitation; (c) Design and precipitation; (i) Macroclimatic conditions; (ii) Microclimatic conditions; (iii) Protection; 6. Other Climatic Factors; (a) Lightning; (b) Humidity; 7. Conclusion; 8. Bibliography; and 9. Index.

**ABSTRACT.** This work presents a new approach to the old problem of designing buildings that are in harmony with the climate. The elements of climate are fully described and the limitations imposed by the climate are discussed. The author has gathered together the latest pertinent and helpful information, including charts and graphs, from widely-scattered sources, and has augmented this information with his own findings. The physics of the influences of the sun, temperature, wind, precipitation, lightning, and humidity upon architecture, as well as their beneficial and disadvantageous effects under given conditions, are covered. The author also discusses the control of these effects through the orientation of buildings, site and town planning, and the use of such devices as brise-soleil, trees, windbreaks, and snow fences. The work contains 55 tables and over 300 illustrations, maps, etc. It also suggests solutions to such problems as site selection, how to avoid snow-shovelling chores, how to keep a dry basement and a dry area around the house, how to install lightning rods, how to sleep comfortably on hot summer nights, and how to plant the best trees and vines for comfort, protection and beauty. The author is a graduate of Hamilton College and McGill University and an observer of the Canadian Army's Exercise Muskox (1946).

- (183) APPLICATION OF CLIMATIC DATA TO HOUSE DESIGN by Victor and Aladar Olgyay, Thomas F. Malone, and Don G. Friedman, with the assistance of Peter Kowalski and Jay G. Fleishman. The work was administratively supervised by Burnham Kelly, Director of the Bemis Foundation, and technically guided by the Advisory Committee of the Massachusetts Institute of Technology, consisting of Professors Lawrence B. Anderson, Albert G. H. Dietz, Hoyt C. Hottel, Henry G. Houghton, Burnham Kelly, and Parry Moore, and of Richard W. Hamilton, research associate at the Bemis Foundation. The work was sponsored by the Housing and Home Finance Agency, Division of Housing Research, of which Joseph H. Orendorff is Director, and Bernard Wagner was project technician; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in June 1953.—30 pages, plus folding chart.

Includes a consideration of: 1. Introduction; 2. Summary of Project Work; 3. Appendix Report No. 1; 4. Appendix Report No. 2; 5. Appendix Report No. 3; 6. Appendix Report No. 4; 7. Appendix Report No. 5; 8. Appendix Report No. 6; 9. Suggestions for Future Research; 10. Bioclimatic Chart for U. S. Temperate Zone Inhabitants (a folded insert); and 11. Additional Charts and Diagrams (14 pages).

- (184) PHYSIOLOGICAL OBJECTIVES IN HOT WEATHER HOUSING: AN INTRODUCTION TO THE PRINCIPLES OF HOT WEATHER HOUSING DESIGN by Dr. Douglas H. K. Lee; pub-

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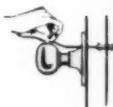
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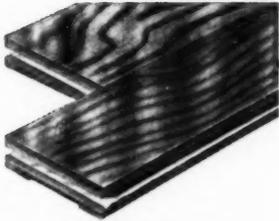
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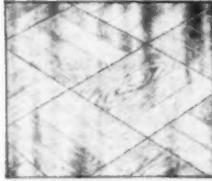
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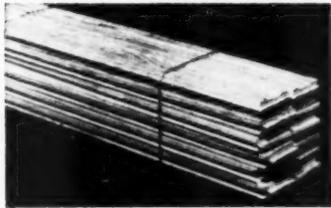
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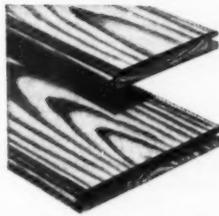
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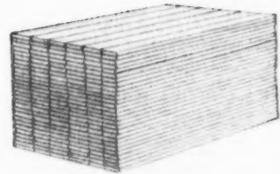
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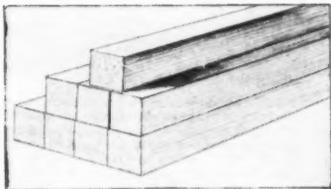
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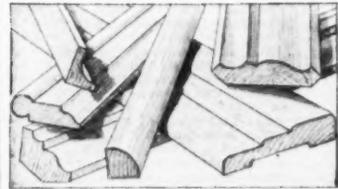
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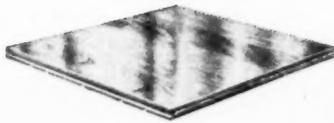
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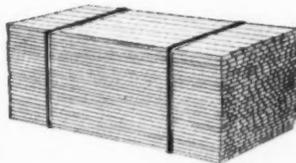
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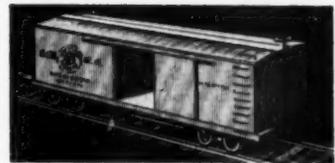
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LOUISVILLE, MISSISSIPPI

lished by the Housing and Home Finance Agency, Office of the Administrator, International Housing Activities Staff, Washington, D. C., June 1953.—79 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Significance of Hot Environments for Man; (a) Human heat balance; (b) Consequences of heat stress. (c) Individual variation in response; (d) Tolerance levels; 3. Basic Climatology of Tropical and Subtropical Regions; (a) Air temperature; (i) Sun the source of heat; (ii) Effect of latitude and season; (iii) Effect of atmospheric impurities; (iv) Effect of land and water; (v) Effect of winds and air mass movement; (vi) Effect of altitude; (vii) Understanding the local pattern; (b) Vapor pressure; (c) Air movement; (d) Radiant energy; (i) Direct solar radiation; (ii) Solar radiation reflected from clouds, etc.; (iii) Solar radiation reflected from terrain; (iv) Ground temperatures and thermal radiation; (v) "Sky" temperatures and thermal radiation; (e) Classification of climates; 4. Housing as Climatic Protection in Hot Dry Environments; (a) Nature of hot dry environments; (b) Principles directed to reducing human heat production; (c) Principles directed to reducing gains and promoting losses from the body by radiation; (i) External shade; (ii) Reduced ground reflection; (iii) Attached shade; (iv) Water cooling of exterior; (v) Minimal solar projection; (vi) High reflectivity and high reemission; (vii) Convection over surfaces exposed to radiation; (viii) Insulation; (ix) Convection over inner surfaces; (x) Low emissivity of inner surfaces; (xi) Ceiling height; (d) Principles directed to reducing gains and promoting losses from the body by conduction; (i) Insulation; (ii) Controlled ventilation; (iii) Ventilation of roof spaces; (iv) Ground cooling; (v) Evaporative cooling; (vi) Refrigerant cooling; (e) Principles directed to reducing heat liberation in the building; (f) Summary; 5. Housing as Climatic Protection in Warm Humid Environments; (a) Nature of warm humid environments; (b) Principles directed to reducing human heat production; (c) Principles directed to reducing gains and promoting losses from the body by radiation; (i) External shade; (ii) Reduced ground reflection; (iii) Attached shade; (iv) Minimal solar projection; (v) High reflectivity and high reemission; (vi) Convection over surfaces exposed to radiation; (vii) Insulation; (viii) Convection over inner surfaces and ventilation of roof space; (ix) Low emissivity of inner surfaces; (x) Ceiling height; (d) Principles directed to promoting losses from the body by evaporation; (i) Ventilation (volume flow); (ii) Air movement (velocity of flow); (iii) Dehumidification; (e) Principles directed to reducing heat liberation in the building; (f) Summary; 6. Modifying Effects of Climatic Fluctuations; (a) Alternation of hot dry and cool temperate conditions; (b) Alternation of hot dry and warm humid conditions; (c) Alternation of warm humid and cooler conditions; (i) Warm humid and temperate; (ii) Warm humid and cold temperate; (d) Moist air movement into hot dry areas; 7. Functional Considerations; (a) Sleeping quarters; (b) Veranda; (c) Kitchen; (d) Laundry space; (e) Security and storage; 8. Acknowledgments; 9. Appendix 1: The Heliodon; 10. Appendix 2: The Psychrometric Chart; 11. Appendix 3: Tables of Incidence of Solar Radiation; and 12. Appendix 4: Important References.

**ABSTRACT.** The purpose of this booklet is to present those principles the observance of which it is believed would minimize the direct effects of hot environments upon man, insofar as housing and shelter can do this. The study and report were undertaken at the suggestion of the International Housing Activities Staff (Jacob L. Crane, Director) of the Housing and Home Finance Agency, in order to provide a simple description of the basic physiological principles which should be observed in the design and planning of housing for hot climates. It is intended for use in connection with shelter improvement work in underdeveloped countries which are participating in the Technical Cooperation Program. The report was prepared by Dr. Lee (Professor of Physiological Climatology at the Johns Hopkins University) under a contract with the United States Government, Department

of State, Technical Cooperation Administration, Institute of Inter-American Affairs.

- (191) **A SURVEY OF HUMIDITIES IN RESIDENCES** by Thomas D. Phillips; Building Materials and Structures Report BMS 56; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 9, 1940.—6 pages. Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sources of Data; 3. Tabulation of Data; 4. Graphs of Relative Humidities; 5. Distribution of Vapor Pressures; 6. Distribution of Interior Dew Points; 7. Effect of Continued Cold Weather or Low Exterior Absolute Humidity; and 8. Conclusions. **ABSTRACT.** This report presents the results of a survey of the relative humidities prevailing in occupied houses during the winter. The observations were made by students of colleges cooperating in the survey, working under the supervision of the physics departments of the colleges, and data were obtained from 26 localities in the northern part of the United States. In general, in the occupied houses, the moisture content of the air was sufficient to make the interior condition from 10- to 15-per cent relative humidity higher than would have resulted from heating outside air to 70° F without change in moisture content. Prior to this survey it was known, in general, that the relative humidity in heated houses during cold weather was likely to be rather low, and many means of increasing the humidity had been devised and advocated. However, there had been a lack of specific information on the conditions actually prevailing.

- (192) **"HUMIDITY CONDITIONS IN MODERN HOUSES"** by Robert C. Reichel; in *Housing Research*, October 1953, pages 9-20; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Summary of Background Principles; (a) Behavior of humidity; 3. Technical Tests and Findings; (a) Humidities in houses; (b) Effect of humidity on wood-frame walls; 4. Summary and Conclusions—Application of the Findings; (a) Reduction of source of moisture; (b) Ventilation of the interior air; (c) Vapor barrier application; (d) Ventilation of cold spaces to the exterior; and (e) Suggested reading list. **ABSTRACT.** This article summarizes recently completed research regarding the amount and effect of humidity in our modern conventionally built homes. It first reports on technical tests made to develop reliable data relating to actual humidity conditions in houses. The summary and conclusions contain generally applicable information on humidity control of interest to nontechnical as well as technical readers. Conclusions reached are (1) that a temperature of 70° F and a relative humidity of 40 per cent are realistic wintertime planning and testing values for the interior conditions of our tight modern homes; (2) that our modern ways of living necessitate that humidity and its effects be a major consideration in the building or improvement of all homes in our cold and temperate climates; and (3) that intelligent application of known principles and methods of control by all of those concerned can greatly reduce the maintenance and increase the livability and durability of our homes. The research was conducted, under HFFA projects, at the Pennsylvania State College, State College, Pa., and at the University of Minnesota, Minneapolis. At the Pennsylvania State College, Profs. Frank A. Joy and E. R. McLaughlin were in charge of the laboratory work under the general direction of Prof. E. R. Querc, assistant director of the Engineering Experiment Station. At the University of Minnesota, M. L. Erickson, was in charge of the laboratory work under the general direction of Prof. C. E. Lund, assistant director of the Engineering Experiment Station.

- (201) **EFFECT OF CEILING INSULATION UPON SUMMER COM-**

**FORT** by Thomas D. Phillips; Building Materials and Structures Report BMS 52; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1940.—10 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

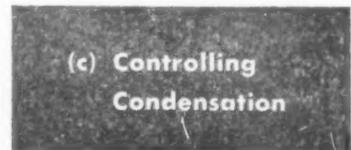
Includes a consideration of: 1. Introduction; 2. Methods; 3. Temperature of the Uninsulated Ceiling; 4. Temperature of the Ceiling Under an Attic Floor; 5. Comparison of Types of Insulation; 6. Conclusions; and 7. Summary.

**ABSTRACT.** This investigation deals with the effect of insulation in limiting the temperature rise of the rooms in the upper story of a building with a flat roof. For test purposes a structure was built on the roof of one of the buildings at the National Bureau of Standards. This structure has a "flat" (slightly sloping) roof, below which is a low attic separated from the room below by a ceiling of plasterboard. Various types of insulation were installed just above the ceiling to insulate it from the attic space. The temperature of the ceiling in the room below was measured, and the effect of the insulation in limiting the rise in the temperature of the ceiling was determined. The results show that a lath and plaster or equivalent ceiling exposed directly to the heat of the attic will be so hot on warm summer days as to add materially to the discomfort of persons in the room below. Even a moderate amount of insulation will make the room much more comfortable.

- (202) **"THE FULLY INSULATED HOUSE"** by Robert K. Thulman; in *Housing Research*, March 1953, pages 43-51; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Insulation Defined; 2. Other Factors Which Reduce Heat Loss; (a) Design and shape of house; (b) Glass area; (c) Walls and ceiling area; (d) Construction; 3. Good Ceiling Insulation; 4. Good Wall Insulation; 5. Good Floor Insulation; 6. Insulation of Glass Areas; 7. Insulation Against Air Leakage; 8. Total Heat Loss of Well-Insulated House; 9. Insulation an Investment; and 10. Cost.

**ABSTRACT.** When walls, ceilings, floors, and windows are insulated to the full extent that space and construction permit, and the several types of insulating materials are applied to the house to the best advantage, reduction in heat loss to an equivalent 35 B.t.u. per square foot of floor area can be easily accomplished. The result in terms of operating economy, metal and fuel conservation, and improved comfort are of significant importance to everyone connected with the home building industry. The opportunity for the development of new concepts of house heating is of equal importance to the house heating industry. This article describes methods of insulating which utilize heat-resistant construction to its full practical potential, shows simple calculations of the resulting reductions in heat loss, and recommends insulation as a high priority essential to every home owner.



- (211) **MOISTURE CONDENSATION IN BUILDING WALLS** by Harold W. Woolley; Building Materials and Structures Report BMS 63; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 14, 1940.—14 pages; price: 10¢. Order copies from Su-

perintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Principles Involved in Condensation; 3. Means of Preventing Condensation; 4. Conclusions; and 5. References.

**ABSTRACT.** Moisture condensation in insulated walls will occur under certain conditions. This paper discusses these conditions in a general way and makes available to architects, builders, and others, information concerning factors which control humidity in walls. These factors are presented so as to make possible estimates of the probability of moisture condensation in walls of dwellings if the factors governing it such as design, structural materials, construction details, and moisture conditions inside and outside the building are known. The list of references includes many studies of this problem in relation to frame construction published by the Forest Products Laboratory.

- (212) **LABORATORY OBSERVATIONS OF CONDENSATION IN WALL SPECIMENS** by Richard S. Dill and Herman V. Cottony; Building Materials and Structures Report BMS 106; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 2, 1946.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Apparatus; 3. Test Specimen; 4. Test Methods and Conditions; (a) Methods; (b) Conditions; 5. Procedure and Observations; 6. Conclusions; and 7. References.

**ABSTRACT.** Water-vapor migration and condensation in walls were investigated by means of a laboratory apparatus whereby a specimen wall was exposed to cold air on one side and to warm, humidified air on the other side. The wall was insulated and protected against water-vapor condensation in various ways for purposes of observation. The test conditions were a little more severe than those ordinarily expected anywhere in the continental United States. The observed relation between vapor pressure and condensation and the observed effects of vapor barriers are described and discussed. In this investigation it was found that condensation occurred within a heavily insulated wall, but under conditions conducive to condensation within the wall structure could be avoided by the use of an effective vapor barrier or by ventilating the interior of the wall with cold air.

- (213) **CONDENSATION CONTROL IN DWELLING CONSTRUCTION**—Prepared by the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in collaboration with the technical staff of the Housing and Home Finance Agency (For names of the leading contributors, see under "Abstract," below); published by the Housing and Home Finance Agency, Washington, D. C., August 1949 (Second Printing, June 1950). 73 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Purpose and scope; (b) Background; 2. Factors in the Condensation Problem; (a) Vapor barriers; (b) Sheathing paper or sheathing; (c) Ventilation; (d) Thermal insulation; 3. Good Practice Recommendations; (a) Condensation control zones; (b) Sizes of ventilators; (c) Crawl spaces; (d) Walls; (e) Lofts or attics; 4. Condensation Control Details; (a) One-story, flat-roof house; (b) Basementless house, one-story; (c) One-and-one-half-story house with basement; (d) Two-story house with basement; (e) Basementless house, concrete slab floor; (f) Basementless house, crawl-space ventilation; (g) Basementless

house, crawl-space ventilation (Continued); (h) Representative types of ventilators; (i) Basementless house, crawl space with soil cover; (j) Basementless house, crawl space with gravel fill; (k) Basementless house, floor detail No. 1; (l) Basementless house, floor detail No. 2; (m) Basementless house, floor detail No. 3; (n) Basementless house, floor detail No. 4; (o) Outside basement wall, decorative finish; (p) Outside basement wall, plaster finish, floor treatment; (q) Side wall, first-floor level; (r) Side wall, first-floor level, fire stop; (s) Side wall, first-floor level (Continued); (t) Vapor barrier and thermal insulation adjacent to a double-hung window; (u) Junction of a partition with an outside wall; (v) Wall detail, blanket insulation attachment; (w) Junction of second floor and wall, balloon construction; (x) Side wall, second-floor level, platform construction; (y) Vapor barrier and thermal insulation at wall-floor intersection at second-floor level; (z) Side wall, second-floor level, joists parallel to the side wall; (aa) Ceiling construction adjacent to an attic space; (bb) Ceiling construction adjacent to an attic space, installed in an existing building; (cc) Junction of attic floor, roof, and side wall; (dd) Junction of a dwarf wall with the attic, floor, and roof; (ee) Junction of attic floor, side wall, and roof; (ff) Attic and crawl-space ventilation, gable roof; (gg) Lower-type ventilator for gable or modified hip roof; (hh) Flat roof cornice; (ii) Ventilation of space below low-pitched roof deck; (jj) Alternate sub-ceiling details; (kk) Hip roof, enclosed rafters; (ll) Modified hip roof with vents; (mm) Special roof vent for hip roof; (nn) Lower-type roof ventilator; (oo) Special roof vent for hip roof (Continued); (pp) Snow and ice dams; (qq) Eave protection, snow and ice dams; (rr) Ice knobs attached to protruding nails; (ss) Opening into unheated attic space, details No. 1, No. 2, and No. 3; (tt) fitting vapor barrier around electric wiring outlet box; (uu) Appendix 1—Methods for computing recommended amounts of insulation; (vv) Appendix 2—Literature cited; (ww) Glossary of condensation and housing terms.

**ABSTRACT.** This publication, sponsored by the Housing and Home Finance Agency and prepared by the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in conjunction with the constituent housing agencies, sets forth good practice recommendations on condensation control in dwelling construction. Pertinent suggestions and comments, based upon experience and research, were supplied by insulation, roofing, fiber board, building paper industries, and universities. It includes a discussion of condensation problems covering both conditions under which they might be expected, and recommended treatments. A considerable portion of the publication is devoted to sketches and discussions on the installation of vapor barriers when other recognized means of condensation control are not indicated. Ventilation, (1) in the occupied spaces, (2) in crawl spaces, and (3) in attic and loft spaces, also is discussed. Leonard G. Haeger, Director, Division of Standardized Building Codes and Materials; Ralph R. Britton, Chief, Structural Engineering Section; and Laurence Shuman, Chief, Mechanical Engineering Section, all of the Housing and Home Finance Agency; Robert K. Thulman, Chief, Mechanical Engineering Staff, Federal Housing Administration; J. B. Corridon, Director, Plants and Structures Branch, Public Housing Administration; and four technicians at the Forest Products Laboratory: E. F. Lufford, Engineer; L. V. Teesdale, Engineer; F. L. Browne, Chemist; and M. E. Dunlap, Engineer; were the major contributors to, or directors of, the study. The text and details were prepared by M. E. Dunlap, and the illustrations were drawn by J. C. Killenow of the Forest Products Laboratory. The basic research for the study was largely that of Messrs. Teesdale, Browne, and Dunlap.

- (214) **"CONDENSATION CONTROL IN DWELLING CONSTRUCTION—GOOD PRACTICE RECOMMENDATIONS"** by Ralph R. Britton; in (H.H.F.A.) *Technical Bulletin No. 10*, issued May-July, 1949, pages 11-15; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 20¢. Or-

der copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Condensation Control Zones; 3. Sizes of Ventilators; 4. Crawl Spaces; 5. Walls; and 6. Lofts and Attics.

**ABSTRACT.** These recommendations have been prepared because of the trouble experienced in dwellings throughout the country due to excessive condensation. This condensation results in expensive repairs and excessive maintenance costs. The recommendations presented here include (1) consideration of climatic conditions at various exposures; (2) methods of calculating ventilation amounts; (3) crawl space treatment; (4) walls; and (5) attic and loft space treatment. These recommendations apply to average conditions in which engineering studies have not determined that other methods of condensation control may be expected to provide durable, economical construction.

## (d) Heating and Ventilation

- (221) **TEMPERATURE DISTRIBUTION IN A TEST BUNGALOW WITH VARIOUS HEATING DEVICES** by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 108; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 28, 1947.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office Washington, D. C.

Includes: 1. Introduction; 2. Test Equipment; 3. Test Specimens; (a) Electric heater; (b) Oil-burning warm-air furnace; (c) Jacketed gas-fired space heater; (d) Jacketed oil-fired space heater; (e) Single gas-burning gravity floor furnace; (f) Two gas-burning gravity floor furnaces; (g) Gas-burning floor furnace (with circulating fan); (h) Oil-burning gravity floor furnace; (i) Gravity hot-water heating system; 4. Test Procedure; 5. Vertical Temperature Differences; 6. Horizontal Temperature Differences; 7. Discussion; and 8. References.

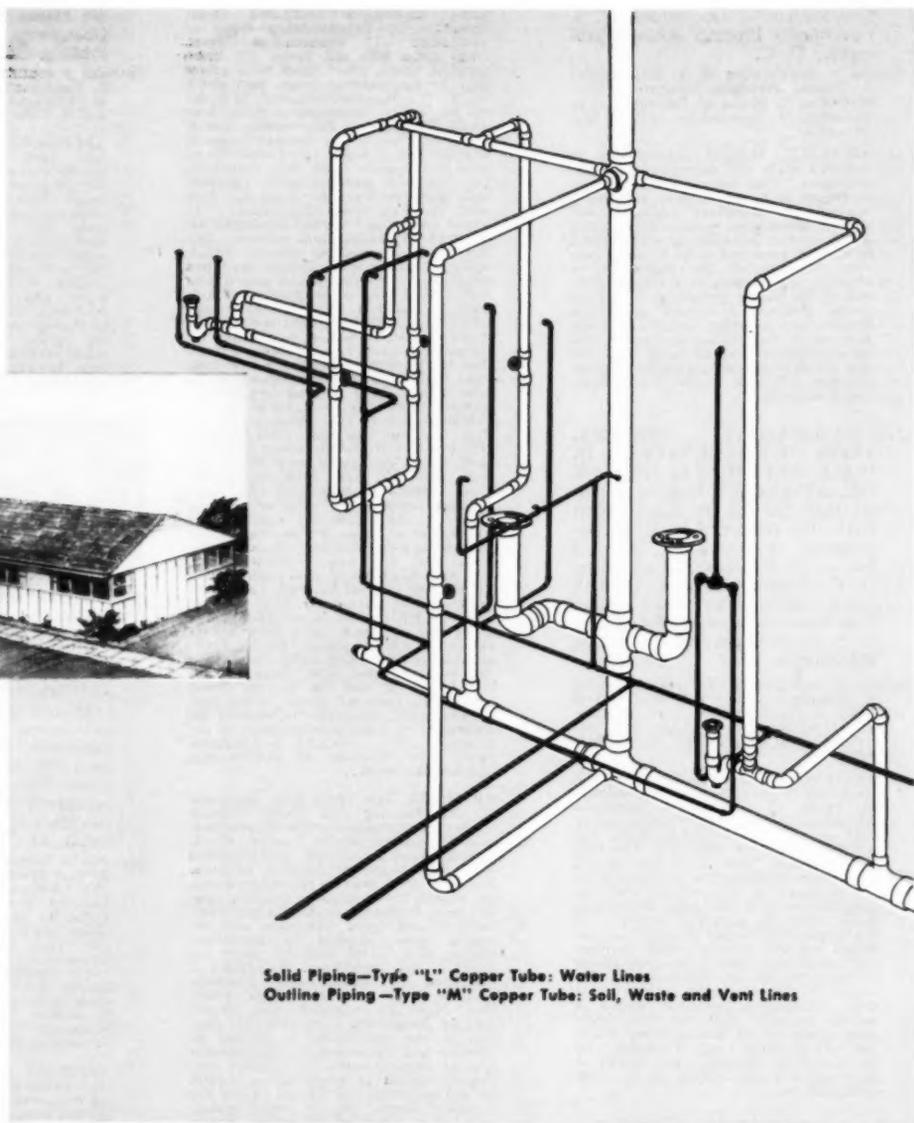
**ABSTRACT.** The temperature distributions attained with various types of heating devices or systems were determined in the test bungalow at the National Bureau of Standards. The heating appliances tested included a hot-water heating system, floor furnaces located in several different positions, space heaters with fans, and electric and oil-burning warm-air furnaces. Each heating device was observed under a variety of weather conditions. The conditions inside and the weather outside the laboratory were recorded for comparison. Vertical temperature differences were computed for 32° F outside on the assumption that such differences are proportional to the inside-outside temperature difference. Uniformity of temperature throughout houses is a tacitly accepted American ideal of heating. Probably it is never attained in practice, and departures from it depend upon the design and construction of the house and upon the characteristics of the heating system or devices used. Distribution of warmth in houses has usually been judged only qualitatively by individual engineers on the basis of personal experience or observation. Quantitative data have been limited almost entirely to laboratory tests on parts of the system. Tests described in this report were made for the purpose of obtaining such data on the temperature distribution in a house heated successively with each of several types of heating systems.

- (222) **MEASUREMENTS OF HEAT LOSSES FROM SLAB FLOORS** by Richard S. Dill, William C. Robinson and Henry E. Robinson; Building Materials and Structures

## COPPER TUBES



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Report BMS 103; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 10, 1945.—21 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment; 3. Procedure and Observations; (a) Slab floors laid on the ground; (b) Floors laid over crawl spaces; (c) Temperature distribution; (d) Condensation on the test floors; and 4. Summary and Conclusions.

**ABSTRACT.** Four concrete floors laid on the ground and three concrete and one wood floor laid over crawl spaces were tested for heat transfer properties in a special structure provided for the purpose. It was found that the heat loss of the floors laid on the ground was decreased by insulating the edges; that the heat loss through the center of such floors is relatively small when the enclosing structure is continuously heated; that the edge loss for a wood floor laid over a crawl space is small; and that the edge loss for an insulated concrete floor laid over a crawl space was considerable. Observed ground temperatures at various depths, down to 13 ft. below the surface, are reported in the paper and some factors are suggested for estimating floor heat losses.

(223) **AIR INFILTRATION THROUGH WINDOWS** by Eugene F. Coleman and Roy H. Heald; Building Materials and Structures Report BMS 45; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 29, 1940.—21 pages; price: 10¢. Order copies from Superintendent of Documents U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Engineering Practice; (a) Heat-loss calculation; (b) Wind pressure and speed; (c) Selection of wind speed; 3. Test Equipment; (a) General description; (b) Meter timing equipment; (c) Test-panel construction; 4. Test Procedure and Results; (a) General; (b) Clearance correlations, double-hung wood windows; (c) Clearance correlations, light steel casements; (d) Correlation of infiltration and pressure; 5. Comparative Results; (a) Wood windows; (b) Steel casement windows; 6. Summary; and 7. Selected References.

**ABSTRACT.** Equipment for measuring the rate of infiltration of air through the clearance openings of windows and doors due to wind pressure has been developed at the National Bureau of Standards as part of the program of research on building materials and structures. By means of the equipment, tests were conducted on double-hung wood windows and light steel casements, types frequently specified for low-cost housing construction. Infiltration measurements were made for systematic sets of clearance conditions, and correlations between amount of clearance and infiltration are given. The results are summarized using a concise method for representing the relationship between air infiltration and test pressure. Relationships between average sash clearance and infiltration at the reference pressure of 0.2 in. of water are given, and a general type of relation between infiltration and pressure is suggested on the basis of the test results.

The heat losses from a building may be viewed as arising from two sources: (1) those in which the heat is transmitted through the materials comprising the walls, roof, and lower floor, thence by radiation, convection, and conduction to the outside; and (2) those in which the cold outside air enters the building by means of cracks around windows and doors, called infiltrative losses. In most cases the larger part of the total heat loss may be placed in the former classification, but a substantial part may also occur by infiltration. This report describes test equipment for measuring infiltration of air through windows and gives the results of measurements to determine infiltration rates for several types of windows, with emphasis on windows suitable for low-cost house construction.

(224) **"APPLICATION OF THE FLOOR FURNACE IN THE**

**HEATING OF SMALL HOUSES"** by Robert K. Thulman; in (H.H.F.A.) *Technical Bulletin No. 10*, issued May-July 1949, pages 1-9; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 20¢. This article alone is available for 15¢ as H.H.F.A. Technical Report No. 9. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

**ABSTRACT.** It is the purpose of this article to explain the fundamental principle of the floor furnace and to describe its application to the heating of small houses. The text is illustrated with 16 figures.

(225) **"PERFORMANCE OF MODULAR CLAY FLUE LININGS"** by Robert K. Thulman; in (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 11-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Flue Areas; 3. Liner Sizes; 4. Safety; and 5. Conclusion.

**ABSTRACT.** IHFA Technical Paper No. 13, "Performance of Masonry Chimneys for Houses"—Included in this reading list as item (624)—reports the results of tests on a number of masonry chimneys at the National Bureau of Standards. The tests on tile-lined chimneys were made on specimens lined with conventional sizes of tile lining. Since the tests were carried out, the manufacturers of tile lining have developed standardized sizes which fit into the general plan of modular coordination. The American Standards Association has published these standardized modular sizes in A 62.4-1947 "American Standard Sizes of Clay Flue Linings," and some manufacturers have set up their equipment to produce and market them. This paper recommends that modular linings be accepted when their use in place of their counterpart nonmodular sizes is proposed. It also recommends that the modular 8-by-8-inch liner be accepted for use with lower capacity heating devices with input rates under 150,000 B.t.u. per hour.

(226) **EFFECT OF SOOT ON THE RATING OF AN OIL-FIRED HEATING BOILER** by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 54; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 18, 1940.—4 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Specimen and Equipment; 3. Test Procedure; 4. Results; and 5. Discussion of Results.

**ABSTRACT.** It is shown that the rating of a boiler, obtained by a test method based on constant flue-gas temperature, can be seriously affected by soot on the heating surfaces, although the soot may be too slight in amount to affect greatly either the capacity or the efficiency at a constant firing rate. At constant firing rate the soot has a large effect on the flue-gas temperature. This factor should be considered in the adjustment or testing of heating boilers or furnaces on the basis of constant flue-gas temperature and in the design of chimneys. Some assurance is offered to users of heating boilers and furnaces that an increased flue-gas temperature due to soot deposition does not necessarily signify a great decrease in capacity or efficiency. Chimneys and smoke pipe should be able to withstand the relatively high temperatures that may occur if there is an extraordinary amount of soot deposited on heating surfaces during some period of improper combustion.

## (e) Plumbing Design

(241) **METHODS OF ESTIMATING LOADS IN PLUMBING SYSTEMS** by Roy B. Hunter; Building Materials and Structures Report BMS 65; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 16, 1940.—21 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Purpose; 3. Definition and Symbols; 4. Basis of Selection of Pipe Sizes; 5. Character of Flow in Plumbing Systems; (a) Cases of loading; 6. Statement of the Problem; 7. Development of the Probability Function; 8. Interpretation of the Probability Function; 9. Proposed Uses of the Probability Function for Making Load Estimates; (a) Pertinent information obtainable from the probability function; (b) Values of  $t$ ,  $T$ ,  $r$ , and  $q$ ; (c) Presentation of probability data; (d) Derivation of fixture weights (fixture units); (e) Relative load weights for different conditions of service; (f) Application of load chart and weight table; 10. Adequacy of the Method; 11. Estimates of Sewage Loads; 12. Discussion; and 13. References.

**ABSTRACT.** This report describes a method of estimating the demand and sewage loads for which provision should be made in designing plumbing systems in order that the service may be satisfactory. The characteristics of flow through a plumbing system and of the operation of supply valves and plumbing fixtures are described, and their influence on the method of estimating the load to be expected is discussed. The relative load-producing values of different kinds of commonly used plumbing fixtures are analyzed, and a table is developed giving relative load weights in terms of a load factor called the "fixture unit." An estimate curve developed by means of the probability function is given, and its use in conjunction with the table of fixture units is illustrated.

(242) **CAPACITIES OF PLUMBING STACKS IN BUILDINGS** by Robert S. Wyly and Herbert N. Eaton; Building Materials and Structures Report BMS 132; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 28, 1952.—28 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Previous Research on Stack Capacities; 3. Summary of Attempts to Define Stack Capacity; 4. The Problem of Stack Capacity; 5. Terminal Velocities in Stacks; 6. Terminal Lengths in Stacks; 7. Tests on Stacks and Drains; 8. Analysis of Conditions at the Stack Fitting where a Horizontal Drain Empties into a Stack at an Intermediate Floor of a Multistory Building; 9. Summary; 10. Application of the Results of the Investigation; 11. Conclusions; 12. Further Investigation; 13. References; and 14. Appendix. Evaluation of the Sand Roughness Coefficient,  $k$ .

**ABSTRACT.** This report gives the results of the first phase of a theoretical and experimental investigation of the capacities of plumbing drainage stacks in buildings. Because of the complexity of the problem and the wide variety of conditions that are encountered in providing sanitary drainage for buildings, no satisfactory means of determining the sizes of pipes required in the drainage system of a particular building has ever been developed. The present investigation was intended to solve one of the problems involved in determining the capacity of

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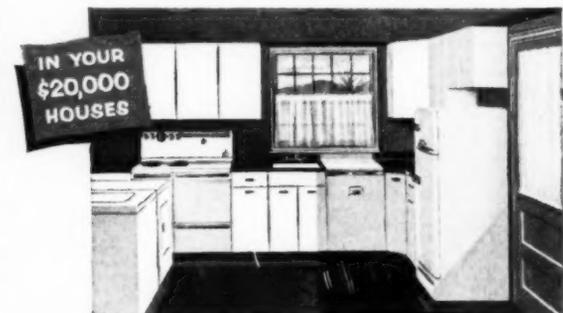
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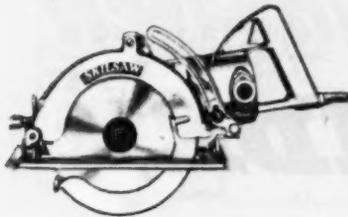
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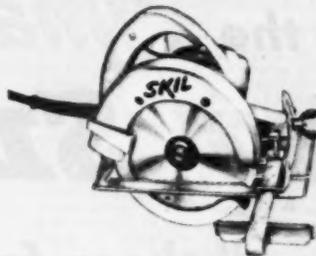
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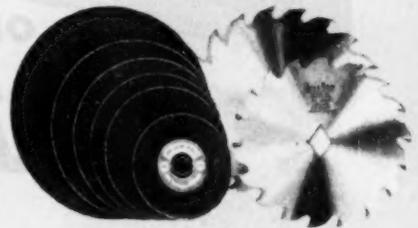
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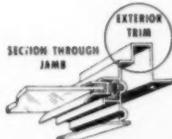
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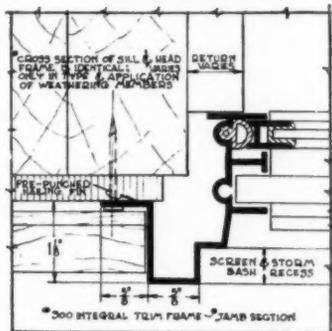


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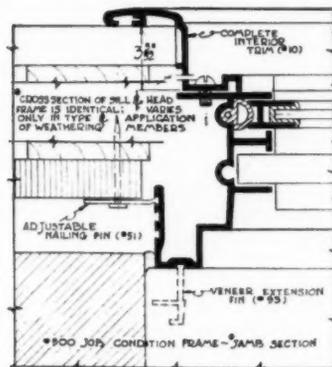


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a vertical drainage stack, namely, the pressures that are produced in a horizontal drain by the interference of the flow down the stack from higher levels with the flow from a horizontal drain into the stack at some intermediate level. This was accomplished by developing an equation for the relation between rate of flow down the stack, rate of flow from the branch, pneumatic pressures in the stack and in the branch at the branch level under consideration, the diameters of the stack and the branch, and the backpressure produced in the branch. With the aid of experiment, the unknown quantities in the equation were determined, and the equation can be used to predict this backpressure for any given conditions when a sanitary tee stack fitting is used to connect the branch to the stack. The research forming the basis of this report was undertaken for the Housing and Home Finance Agency as part of the research program of that Agency under its statutory authority.

(243) FIXTURE UNIT RATINGS AS USED IN PLUMBING SYSTEM DESIGN by Herbert N. Eaton and John L. French, both of the National Bureau of Standards; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1951, as "Housing Research Paper No. 15,"—18 pages, NOTE: Despite its number (15) this is the first in the series of H.H.F.A. "Housing Research Papers." The 14 preceding papers were known as "Technical Papers" and dealt with technical problems only; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Derivation of the Terms; 3. The Application of the Theory of Probability to the Determination of the Probable Loads Imposed on Building Plumbing Systems; (a) General considerations; (b) Application of the theory to a simple system; (c) Mixed systems; (d) Loading contributed by other fixtures; 4. Variation of the Rate of Flow Corresponding to One Fixture Unit With the Number of Fixtures on the System.

ABSTRACT. A report explaining the use of the terms "fixture unit" and "fixture unit rating" in conjunction with the theory of probability to determine demand flow for the design of water piping in the plumbing systems of large buildings. Prepared by two hydraulic engineers of the National Bureau of Standards. Modification of some of the factors would permit application of the method described here to determine design loads for drainage systems. This report is based on research sponsored by the Housing and Home Finance Agency in collaboration with the U. S. Department of Commerce, National Bureau of Standards. The H.H.F.A. staff technician on the project was Fred W. McGhan. NOTE: A condensation of this paper appears in H.H.F.A. Technical Bulletin No. 16 entitled "Water Flow Rates in Piping" for which see item (162) of the present reading list.

(244) PLUMBING FIXTURE ARRANGEMENT (Construction Aid 1)—Prepared by the H.H.F.A. Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.,—June 1952,—18 pages.

Includes a study of: 1. General Considerations; 2. Room Orientation; (a) Relation to plumbing services; (b) Backing-up of rooms; (c) Vertical alignment; 3. Fixture Arrangements; (a) Fixtures in line; (b) Vertical proximity; 4. Apparatus Location; (a) Water heaters; (b) Clothes washers; (c) Dishwashers; 5. Other Considerations; 6. Conclusions; (a) Material savings; (b) Cost savings; (c) Codes and standards.

ABSTRACT. A guide to simplified design of plumbing fixture arrangement to conserve critical metals and manpower, and reduce installation and operational costs. The publication presents to the housing designer those planning ideas which should be considered for an economical and effective plumbing system.

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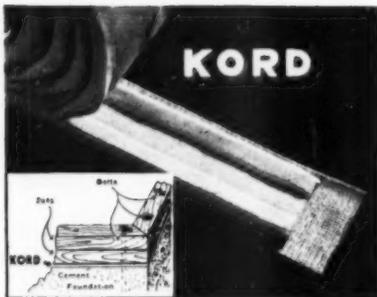
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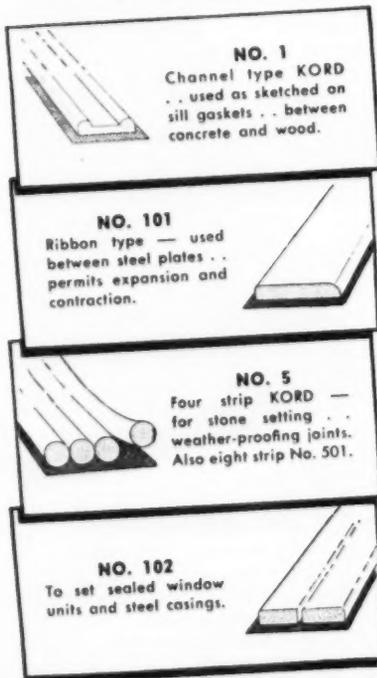
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(261) MODULAR COORDINATION. WHAT IS IT? HOW DOES IT WORK? WILL IT HELP REDUCE HOUSING COSTS?—Prepared by H.H.F.A.'s Division of Standardized Building Codes and Materials; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.—July 1949.—20 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. A booklet written in simple language and with outline drawings describing in popular terms the principles of modular coordination for the layman and as an introduction to the subject. It sets forth to the consumer the advantages, in the form of lower cost, that accumulate from the cost savings to producer, dealer, and builder, and describes briefly the history of the development of modular coordination and how it is used by the architect in design and the builder in construction.

(262) THE MODULAR METHOD IN DWELLING DESIGN—A compilation by various members of H.H.F.A.'s Division of Housing Research; published by the Housing and Home Finance Agency, Division of Housing Research, May 1951.—54 pages; price: 30c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Coordination of Building and Material Dimensions; 2. Building Coordination: The Architect's Function; 3. Modular Coordination in Drafting Practice; 4. Masonry Construction; (a) Selection of controlling parts; (b) Preparation of assembly details; (c) Wall sections in plan; (d) Vertical wall sections; (e) Wall opening details; (f) Correlation of details on working drawings; (g) Elevation; 5. Wood-Frame Construction; 6. Appendix A: Theory of Modular Coordination; (a) Basis for coordination; (b) Method of coordination; (c) Sizes of modular products; (d) Modular details; (e) Correlation of building layout; (f) 4" flexibility requirement; (i) Building structure layout; (ii) Parts of building structure; (iii) Fittings to building structure; (g) grid positions; (h) General; (ii) Walls and partitions; (iii) Wall openings; (iv) Floors; (b) Modular masonry; (i) Masonry units; (ii) Standard joint thickness; (iii) Masonry walls; (iv) Referencing to the grid; (f) Woodframe construction; (i) standard lumber sizes; (ii) Grid locations; (iii) Individual studs; (iv) 2" x 4" stud wall corners; (v) 2" x 4" stud walls; (vi) Floor lay-out; (vii) Rough openings; (viii) Rafters and ceiling joists; 7. Appendix B: Typical Assembly Details; (a) Double-hung window details; (b) Coordination of floors with masonry walls; (c) Wood joist framing; (d) Wood joists on metal hangers; (e) Open-web steel joists; (f) Concrete slab on grade; (g) Reinforced concrete slab; (h) Steel casement windows with steel surround; (i) Steel casement windows with wood surround; 8. Challenge to the Architect; and 9. Selected References.

ABSTRACT. An explanation of how the principles of modular coordination, developed by American Standards Association Project A62, are applied to the preparation of drawings for building construction. Application of modular principles is illustrated by two example structures: an apartment house of masonry construction and a single-family detached house of wood-frame construction. The booklet explains how the modular method simplifies the dimensioning of small-scale drawings; shows step-by-step development of assembly details; and tells how

plans and details are correlated. An appendix contains an explanation of the basis of modular coordination and the principles essential to use of the method by architects, engineers, and designers. Typical modular details of floors, walls, and windows, in addition to those of the sample structures, are included to show how the modular method is adapted to different types of construction. The booklet is one of a series dealing with standardization of dimensions and assembly methods in building construction prepared by the Housing and Home Finance Agency, Division of Housing Research. Assistance in the preparation of this booklet was given by the American Institute of Architects, The Producers' Council, Inc., and the National Association of Home Builders, co-sponsors of American Standards Association Project A62; by the Modular Service Association (Myron W. Adams, Executive Secretary); by the American Standards Association, Inc.; by the late Fred Heath; by the late Albert Farwell Bemis; by James T. Ledrum; and by A. Gordon Lorimer. ASA Project A62 committees were organized in 1938. Their findings were published in 1946 in the A62 Guide for Modular Coordination by Myron W. Adams and Prentice Bradley, from which the present booklet has drawn extensively.

(263) "APPLICATION OF LARGE MODULES TO INDUSTRIALIZED HOUSING" by Bernard Wagner; in *Housing Research*, October 1952, pages 35-40; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

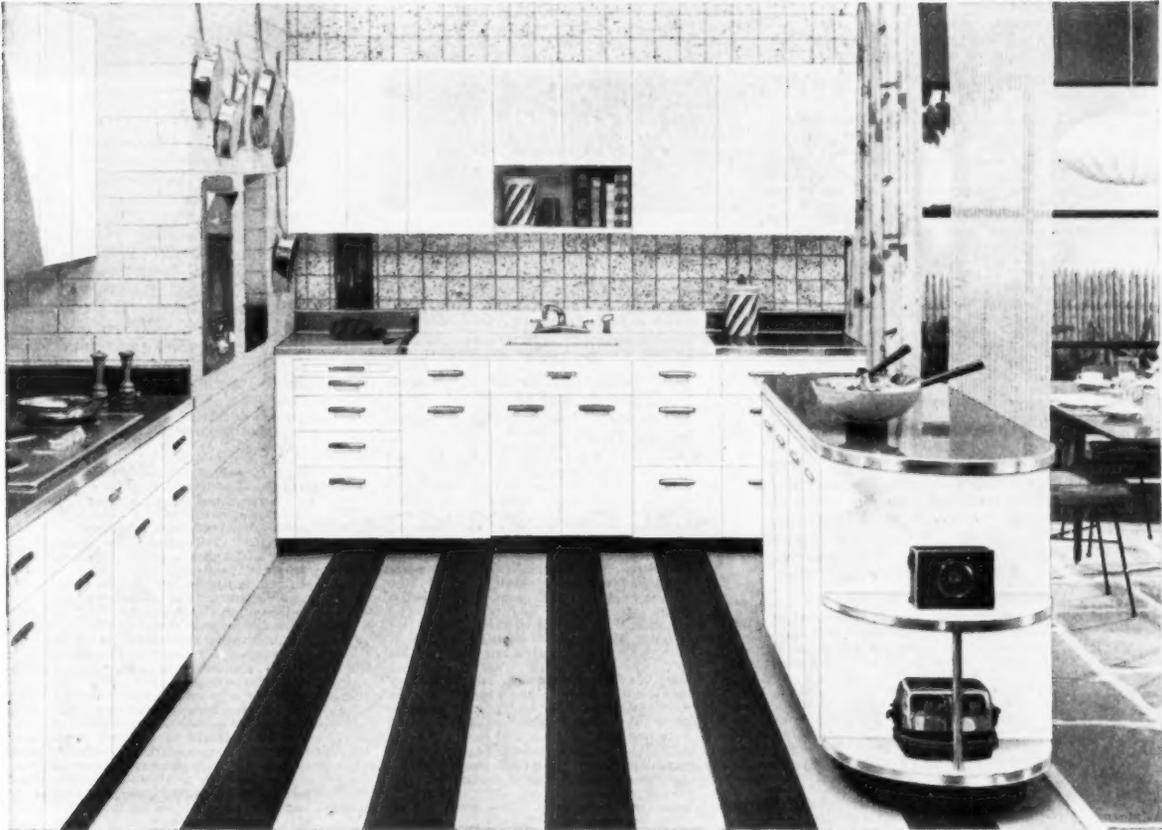
Includes a consideration of: 1. The Prefabricated House; 2. The Industrialized House; 3. Economics of Larger Modules; 4. The Large Planning Module; 5. Standard Assemblies; 6. Suitable Materials; and 7. The Room Module. ABSTRACT. Ready-made houses need not be monotonous. In fact, the more we standardize—and thus save money—on building parts and components, the more we find that there are non-traditional ways of putting these parts and components together. It may sound like a paradox but we can retain design flexibility through standardization. This article seeks to demonstrate that the use of large-size modules—such as 8 or 12 feet—is practical and promises economy for industrialized housing.

(264) "REPORT ON SURVEY OF FACTORS HINDERING MORE GENERAL ACCEPTANCE OF THE MODULAR PRINCIPLE IN DESIGN AND CONSTRUCTION" by the Executive Committee of the Building Research Advisory Board; in (H.H.F.A.) *Technical Bulletin No. 11*, issued September-November 1949, pages 15-18; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. On January 19, 1949, the National Academy of Sciences entered into a contract with the Housing and Home Finance Agency to undertake investigations and make reports with respect to certain technical problems. One was the survey described in this report. Performance of the work was assigned to the Building Research Advisory Board of the National Research Council's Division of Engineering and Industrial Research. The report is signed by the following members of the Executive Committee of the Building Research Advisory Board: Frank B. Jewett, C. F. Rassweiler, Frederick M. Feiker, George M. Hunt, Harry C. Plummer, W. E. Reynolds, Tyler S. Rogers, William H. Scheick, and Walter A. Taylor.

(265) "COORDINATION IN BUILDING CONSTRUCTION" by Bernard Wagner; in (H.H.F.A.) *Technical Bulletin No. 11*, issued Sep-

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<b>NYLON GLIDES</b> —Offer smooth, quiet drawer operation; no binding. No rollers to replace.	YES	NO	NO	YES	NO	NO	NO
<b>TOP CLEARANCE RAILS</b> —Between counters and drawers add strength, stop binding. No scraping of enamel finish.	YES	NO	NO	NO	YES	NO	NO
<b>STAINLESS STEEL TRIM AND DRAWER PULLS</b> —Solid Enduro Stainless keeps its mirror finish.	YES	NO	NO	NO	NO	YES	NO

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State \_\_\_\_\_

tember-November 1949, pages 1-6; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

**ABSTRACT.** Germany has had standardization of building materials (D.I.N. norms) since the end of World War I, but not modular coordination. In 1942, Ernst Neufert, a German architect, made the first comprehensive attempt to coordinate this standardization into a modular system as far as possible, and to propose new standards for certain building materials or products which do not fit the modular system. His work is of interest and value to technicians in this country insofar as he has tried to solve problems similar to ours with results that are sometimes identical, and sometimes contrary to ours. This article is a review of a German study on modular coordination and standardization in the building industry.

(266) "TECHNIQUES FOR CONSERVATION IN HOME CONSTRUCTION" by Joseph H. Orendorff; in *Housing Research*, Fall 1951, pages 1-8; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Conservation in Plumbing for Homes; 3. Conservation in Framing Practices; 4. Conservation Through Modular Coordination; and 5. Illustrative Diagrams. **ABSTRACT.** Current HHFA research to help conserve home building materials and manpower during the emergency covers a wide range of technological investigation in dwelling space and room arrangement, structural components of houses, materials of home structure, housing sanitation, heating, and in other fields. Division of Housing Research projects aimed at conservation include both those being done directly by the Division staff, and others undertaken by contract with Government agencies and nonprofit organizations with exceptional laboratory facilities. The objective is to

help the housing industry build the largest possible amount of needed housing with the least possible drain on materials and manpower needed for defense. This article discusses the principle of conservation embodied in HHFA's technological research and sketches examples of current projects.

### (g) Controlling Infestation

(281) "RATPROOF CONSTRUCTION OF NEW DWELLINGS" by E. J. Herringer; in *Technical Bulletin No. 14*, pages 23-27; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Materials and Methods of Construction; (a) Foundations; (b) Crawl spaces; (c) Foundation vents; (d) Outside basement steps; (e) Coal chutes; (f) Ratproofing under buildings erected on piers; (g) Elevator shafts; (h) Floor drain plates; (i) Service wires; (j) Junction of exterior walls and floors; (k) Exterior doors; (l) Basement and first-story windows; (m) Second-story and higher windows; (n) Exhaust fan openings; (o) Mail slots; (p) Junction of roof and exterior walls; (q) Parapet walls; (r) Skylights; (s) Chimneys; (t) Water and sewer vent stacks; (u) Spaces between attic floors and roofs; (v) Interior walls; (w) Openings for service pipes; (x) Ventilation systems; (y) Refrigerators; 2. Recommendations for Aiding Eradication Through Ratproof Construction; and 3. References. **ABSTRACT.** This report describes ratproof construction which, with proper maintenance, is the most economical and effective means of controlling rat prevalence in a structure. This involves interior and exterior ratproofing as well as the elimination of interior structural harborage. In new construction this requires elimination of all nonessential openings and the ratproofing of all essential openings.

### (h) Specification Writing

(291) A METHOD FOR DEVELOPING SPECIFICATIONS FOR BUILDING CONSTRUCTION—Report of Subcommittee on Specifications of the Central Housing Committee on Research, Design, and Construction;—Albert G. Bear, Chairman; Building Materials and Structures Report BMS 87; published by U. S. Department of Commerce, National Bureau of Standards Washington, D. C.—Issued July 15, 1942.—23 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Development of basic specification forms; (b) Writing specifications, using model basic form; 2. Part 1: Model Basic Specifications, Masonry; 3. Part 2: Typical Specifications, Masonry; 4. Part 3: Streamlined Specifications, Masonry; (a) Specification writer's notes; (b) Rewritten specifications, masonry. **ABSTRACT.** To meet the demand for short and uniform specifications for Government building construction, and in an attempt to reduce the time and labor now consumed in their preparation, a representative committee of Federal agencies made a study of current specification-writing routine. In its report, this Committee advocates a directive method which, under proper supervision, should condense specifications, bring about important economies, and increase efficiency. Fundamental principles that have proved of value over a period of years have been retained and are coordinated in a basic specification which promotes uniformity and permits choice of those materials and methods of construction best suited to the specific project in hand. Application of the method is made clear by three examples: a model basic specification illustrating the procedure outlined, a typical contemporary specification, and the typical specification rewritten in accordance with the method advocated.

## PART IV

### (a) Special Constructions for Walls, Partitions, Floors and Roofs

(301) "EXPECTED RESISTANCE TO RACKING OF DOUGLAS FIR PLYWOOD-SHEATHED WALLS" by William A. Russell; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 11-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Specimen Details; 3. Test Procedure; 4. Observations; 5. Discussion; 6. Interpretation of Test Data; and 7. Recommendations.

## BUILDING MATERIALS, EQUIPMENT, and METHODS of CONSTRUCTION

**ABSTRACT.** The manufacturing process used in the production of plywood generates a large quantity of veneer that, because of knotholes and other small surface defects, is unsuitable for the face grain of plywood where appearance rather than structural soundness is the governing factor. A large amount of these lower-grade veneers are well-suited to the manufacture of sheathing which permits economical use of veneers that otherwise would be wasted. This article combines information developed in HHFA-sponsored research projects and data developed from previous tests of plywood sheathed constructions and also presents the data graphically.

(302) MOISTURE AND THE DURABILITY OF WOOD-FRAME WALLS by R. C. Reichel; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., September 1951, as "Housing Research Paper No. 16."—20 pages; price: 15¢. Order copies from Su-

perintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Summary; 3. The Test Shell; 4. Conditions of Exposure; 5. Instrumentation and Control; 6. Observations; and 7. Results.

**ABSTRACT.** A report covering the observations made and data collected during the first 6 months of operation of a long-range investigation to evaluate the relationship of moisture to the durability of wood-frame walls. Twenty-two different wood-frame wall assemblies have been erected in a test structure, utilizing materials and assemblies frequently used in dwelling construction. These walls have been exposed to year-round weather conditions on the exterior, and on the interior to temperature and humidity representative of actual conditions in dwellings in the area of central Pennsylvania. The report is based upon research sponsored by the Housing and Home Finance Agency at The Pennsylvania State College, State College, Pa., where test operations were conducted by Professor E. R. Queer and Professor F. A. Joy.

The tests commenced in December 1949 under the direction of Ralph R. Britton, of H.H.F.A.'s Division of Housing Research. Assistance was also provided by staff personnel of the National Bureau of Standards of the U. S. Department of Commerce, the Division of Forest Pathology of the U. S. Department of Agriculture, and of various trade associations whose products were used.

- (303) **PHYSICAL PROPERTIES AND FABRICATION DETAILS OF EXPERIMENTAL HONEYCOMB-CORE SANDWICH HOUSE PANELS**—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following members of the laboratory staff were in charge of test procedures and analysis of the results here reported: L. O. Anderson, B. G. Heebink, E. W. Kuenzi, and S. H. Munson (engineers), and R. J. Seidl (chemical engineer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luxford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director and Howard J. Wharton, an assistant in technical and administrative research management; published by the Housing and Home Finance Agency, Technical Staff, Washington, D. C., in February 1948, as its "Technical Paper No. 7"—25 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction of Experimental Sandwich Unit; (a) General description; (i) Foundation; (ii) Walls; (iii) Roof; (iv) Floors; (v) Exterior Painting; (vi) Preservative Treatment; (b) Sandwich panel manufacture: (i) Fabrication of cores; (ii) Physical properties of the untreated and resin-treated paper used for honeycomb cores; (iii) Type XF core; (iv) Type PN core; (v) Sawing of cores; (vi) Fabrication of facings; (vii) Assembly of panels; (viii) Sizing and routing of panels; (ix) Window and door frames; (x) Insulated splines; (xi) Miscellaneous parts; (c) Erection of unit; 3. Suggested Plan for a Sandwich-Panel House: (a) Joint details; (i) Floors to foundation; (ii) Floors to walls; (iii) Wall panels; (iv) Wall to ceiling or roof; (v) Treatment of panel joints; (vi) Window and door framing; 4. Appendix: (a) Bending tests of cores; (b) Accelerated aging tests.

**ABSTRACT.** A report covering developmental work, test data on honeycomb-core panels, methods of fabrication and erection of experimental sandwich panels for an outdoor test structure on the grounds of the Forest Products Laboratory at Madison, Wisconsin.

- (304) **STRUCTURAL PROPERTIES OF SIX MASONRY WALL CONSTRUCTIONS** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 5; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 21, 1938.—31 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; 4. Materials: (a) Brick; (i) High-strength brick; (ii) Medium-strength brick; (b) Tile; (c) Block; (d) Mortar; (i) Cement; (ii) Lime; (iii) Sand; (iv) Mix; 5. Fabrication Data; 6. Properties of Test Walls (similar data for each of six walls): (a) Description; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Racking load; (f) Impact load; 7. Comments; and 8. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Masonry Construction Section of the National Bureau of Standards built specimens representing six masonry wall constructions as follows: High-strength brick, cement mortar, excellent workmanship; medium-strength brick, cement-lime mortar, commercial workmanship; medium-strength brick, cement-lime mortar, excellent workmanship; structural clay tile on end, cement-lime mortar, excellent workmanship; structural clay tile on side, cement-lime mortar, excellent workmanship; and stone-concrete block, cement-lime mortar, excellent workmanship. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For most of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table. The results of these tests show the ability of these constructions to resist compressive strength load far greater than those likely to be encountered in actual house construction. They also show how the compressive strength and other properties may be influenced by changes in materials and workmanship, and provide data which may be compared with service behavior for estimating the limiting strength for acceptable performance.

- (305) **WATER PERMEABILITY OF MASONRY WALLS** by Cyrus C. Fishburn, David Watstein, and Douglas E. Parsons; Building Materials and Structures Report BMS 7; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 18, 1938.—35 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Scope of Investigation; 3. Masonry Walls; (a) Materials; (i) Bricks; (ii) Structural clay tiles and hollow concrete units; (iii) Mortars; (iv) Stucco; (b) Types and designations of walls; (c) Methods of construction; (d) Workmanship; (e) Aging; 4. Method of Testing Permeability of Walls; (a) Capillarity test; (b) Heavy-rain test; (c) Light-rain test; 5. Rating of Performance; (a) Observations; (i) Time required for penetration; (ii) Rate of leakage; (iii) Appearance of wall during and after test; (b) Arbitrary ratings; 6. Performance of Walls; (a) Consistency of results; (b) Effect of variation in methods of testing; (i) Comparison of capillarity and heavy-rain tests; (ii) Comparison of light- and heavy-rain tests. 7. Effect of Kinds of Workmanship or Materials Used in Walls of Brick Masonry; (a) Comparison of workmanship; (b) Effect of wall thickness and kind of brick; (c) Effect of absorptive backing; (d) Comparison of mortars; (i) Effect of varying percentages of lime and cement in mortars of high water retentivity; (ii) Effect of using a mortar of low water retentivity; (c) Effect of a brick suction; (f) Effect of mortar parging on brick facing; (g) Effect of using blind headers; (h) Effect of a stone belt course; 8. Effect of Workmanship and Materials in Walls Containing Hollow Masonry Building Units; (a) Walls with structural clay tile backing; (b) Walls with backing of hollow concrete units; (c) Stucco facing on structural clay tile; 9. Surface Waterproofing Treatments; (a) Repeating joints; (b) Paraffin and tung-oil solution; (c) Joint filling; (i) Waxed joints; (ii) Grouted joints; (d) Special proprietary treatments; (e) Aluminum-stearate solution; (f) Linseed-oil solution; (g) Molten paraffin; (h) Paints; (i) Oil paint; (ii) Cement paint; 10. Summary; (a) Definitions; (b) Conclusions; 11. Appendix—Review of Previous Investigations; (a) Tests at Mellor Institute; (b) Tests at the National Bureau of Standards; (c) Tests of the Louisville Cement Company; (d) Tests of the Alton Brick Company; and (e) Tests of the Portland Cement Association.

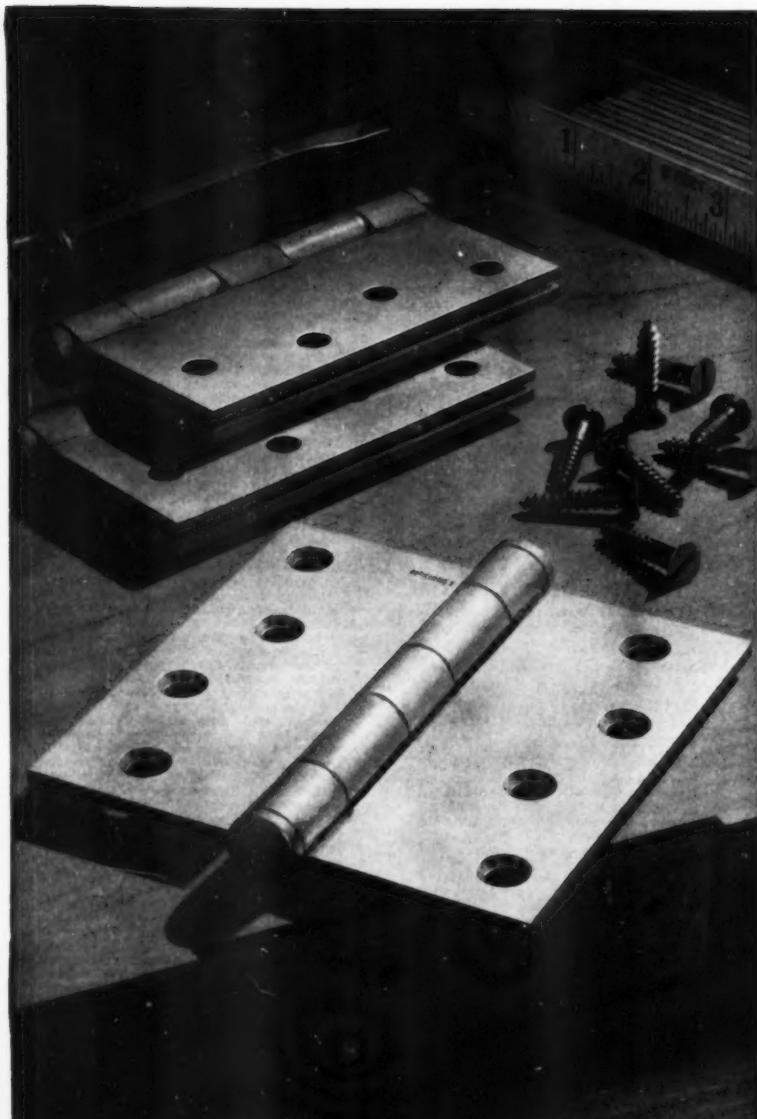
**ABSTRACT.** Walls of brick, structural clay tile and hollow concrete unit masonry were tested under conditions resembling exposure to wind and rain and their resistance to the penetration of water determined. Five kinds of workmanship (method of filling joints), three kinds of brick, six kinds of structural clay tile, two kinds of hollow concrete

units, and six different mortars were used in the construction of the walls. One group of 48 brick walls included specimens, both 8 and 12 inches thick, of three kinds of brick, four cement-lime mortars, and two classes of workmanship, in all possible combinations. The walls of structural clay tile were faced either with stucco or with brick of a single variety. Those of concrete units were faced either with the same brick or with cement paint. The effectiveness of several methods of "waterproofing" were compared by retesting some of the walls after they had been treated. The treatments for the walls included the filling of openings in the face joints with mortar, grout, or wax and the application to the exposed surfaces of colorless solutions or paints. Most of the walls were subjected to water penetration tests under two different conditions. Water was applied near the tops of the walls in a manner to produce a thin film of water over their exposed surfaces. In the "capillarity" test no pressure was applied to the exposed surface, the water penetrating under the forces of capillarity and gravity only. In the "heavy-rain" test a static air pressure of 10 pounds per square foot was maintained against the exposed face. The performances of the walls in the water penetration tests depended more upon the quality of the workmanship than upon any other factor. Walls of brick having the interior joints well filled with mortar usually gave excellent performances, whereas those with poorly filled joints leaked. Aids in obtaining walls resistant to moisture penetration were the use of mortars of medium or high water retentivity, the wetting of absorptive brick before use, and the application of a parging of mortar on the back of the facing wythe. The omission of two-thirds of the normal number of header brick, or the insertion of a limestone sill or belt course had no important effect on the permeability of the walls. On the average, walls with a brick facing and a backing of hollow masonry units were slightly less permeable than brick walls of equal thickness when the joints were not well filled. When the joints were well filled the performance of walls with hollow units was somewhat superior in the capillarity test but inferior in the heavy-rain test to that for otherwise similar all-brick walls. The performance of walls of structural clay tile faced with portland-cement stucco was somewhat better than the average for the walls of brick. The fillings of openings in the joints with mortar grout, or wax was effective in stopping leakage. Applications of colorless waterproofing solutions did not stop leakage through openings in the joints, but were effective in improving the performance of walls of absorptive brick when the openings in the joints had been sealed. Coatings of molten paraffin oil paint, and cement paint were effective in reducing moisture penetration.

- (306) **STRUCTURAL PROPERTIES OF THE INSULATED STEEL CONSTRUCTION COMPANY'S "FRAMELESS-STEEL" CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS** by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 9; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 28, 1938.—18 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description of four-foot and eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 5. Properties of the Partition (with similar sub-headings); 6. Properties of the Floor (with similar sub-headings); 7. Properties of the Roof (with similar sub-headings); 8. Additional Comments by Sponsor; and 9. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions the Insulated Steel Construction Co. submitted



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30 specimens representing their "Frameless-Steel" constructions for walls, partitions, floors, and roofs. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partitions specimens to impact and concentrated loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three similar specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(307) **STRUCTURAL PROPERTIES OF THE CURRENT FABRIHOME CORPORATION'S "FABRIHOME" CONSTRUCTIONS FOR WALLS AND PARTITIONS** by Herbert L. Whittimore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 11; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 28, 1938.—14 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (c) Test frame; (b) Transverse load; (c) Concentrated load; (d) Impact load; 5. Properties of the Partition; (a) Sponsor's statement; (b) Transverse load; (c) Concentrated load; (d) Impact load; 6. Sponsor's comments.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Current Fabrihome Corporation submitted 18 specimens representing their "Fabrihome" constructions for walls and partitions. The specimens were subjected to transverse, concentrated, and impact loads. The loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(308) **STRUCTURAL PROPERTIES OF "STEELOX" CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY STEEL BUILDINGS, INC.**, by Herbert L. Whittimore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 12; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 1, 1939.—17 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; of four-foot and eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 5. Properties of the Partition (with similar sub-headings); 6. Properties of the Floor (with similar sub-headings); 7. Properties of the Roof (with similar sub-headings); 8. Additional Comments by Sponsor; and 9. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, Steel Buildings, Inc. submitted 30 specimens representing their "Steelox" constructions for walls, partitions, floors and roofs. The wall specimens were subjected to compressive, transverse, concentrated impact, and racking loads; the partition speci-



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**A.** The chart below answers the question. Simply, the difference between Interior and Exterior types is in the glue bond. Interior glue bonds are water-resistant; Exterior glue bonds are 100% water-proof. SUPER-Harbord—and Harborite plastic-faced plywood—are not just Exterior type . . . not just Boat-Hull grade. They combine the best of each and add three important features:

1. All-heartwood veneers throughout
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SUPER-Harbord and Harborite cost more because they're worth more. Extreme care in manufacture pays off in use. Twenty years of extra care in manufacture and extra performance on-the-job have made these Harbor products the standard for highest quality, consistently.

\*SUPER-Harbord and Harborite are manufactured only by **HARBOR PLYWOOD CORPORATION, ABERDEEN, WN.**

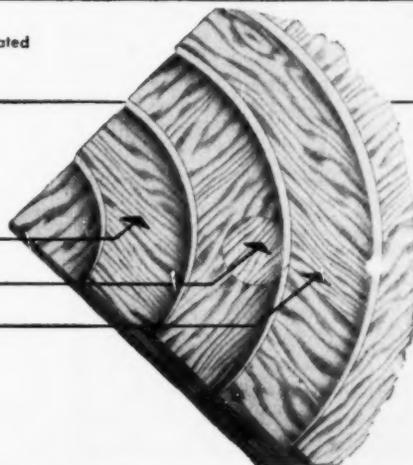
Sales offices and warehouses in Atlanta, Chicago, Cincinnati, Tampa, Indianapolis, Jacksonville, Los Angeles, Oakland, San Francisco.

TYPE	VENEERS	INNER PLYS	GLUE BOND
INTERIOR	Sapwood and heartwood	Knotholes and other open defects permitted	Water-resistant only
EXTERIOR EXT.-DFPA (often called Marine grade)	Sapwood and heartwood	Knotholes and other open defects permitted	Water-proof
BOAT-HULL* EXT.-DFPA	Sapwood and heartwood	Solid, with no open defects	Water-proof
<b>SUPER-Harbord</b> EXT.-DFPA	Douglas fir heartwood, the prime wood of the tree, only. Carefully patched, matching color and grain.	Machine edge-trimmed and carefully butted square against each other. No core gaps. All solid wood.	Water-proof. Special Harbor-developed phenolaldehyde synthetic resin. Distinctive green-glueline.
<b>Harborite</b> PLASTIC-FACED EXT.-DFPA	Same as SUPER-Harbord with phenol-type resin-impregnated plastic overlay on one or two faces.		

\*Special grade of Exterior type described in government specification MIL-P-0066 B (Ships)

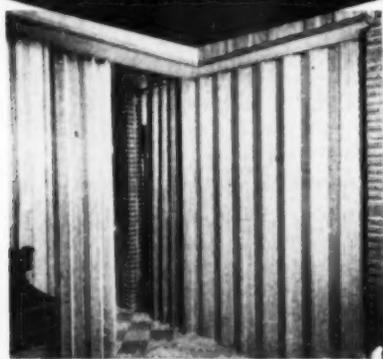
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mens to impact and concentrated loads; the floor specimens to transverse, concentrated and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(309a) **SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS** by V. L. Chrisler; Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 28, 1939.—31 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Location of Building; 3. Location of Rooms Within a Building; 4. Factors Which Control the Transmission of Sound Through Walls and Floors; 5. Homogeneous Walls; 6. Nonhomogeneous Walls; (a) Lath and plaster walls; (b) Masonry walls and floors; 7. Impact Noises and Methods of Isolating Them; 8. Effect of Openings and Methods of Computing Results; 9. Masking Effect; 10. Maximum Noise Levels Which Should Be Tolerated; 11. Panel Construction and Transmission Loss in Decibels; and 12. Literature References.

(309b) **SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS** by V. L. Chrisler; Supplement No. 1 to Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 20, 1940.—7 pages; price: 5¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

(309c) **SOUND INSULATION OF WALL AND FLOOR CONSTRUCTIONS** by Albert London; Supplement No. 2 to Building Materials and Structures Report BMS 17; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 15, 1947.—15 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Supplements 1 and 2 report the results of sound-transmission measurements made on a number of additional types of construction since the issuance of the original report in March 1939.

ABSTRACT. Since about 1923 the National Bureau of Standards has made measurements on the sound-insulating values of different materials and types of construction. Many of the measurements were made in cooperation with manufacturers of building materials; others were made by the Bureau to advance knowledge of the sound insulating properties of representative types of construction. Although the funds available for the research program on building materials and structures with special reference to low-cost housing were insufficient (in 1939) to permit a new experimental program on sound insulation in view of more urgent needs, the results of the past experience of the Bureau are brought together in one place in Report BMS-17, so that the information may be available to architects and engineers. The report summarizes test data on the sound transmission of wall, partition, and floor panels and gives a general discussion of the principles of sound insulation. Attention is called to the desirability of constructing buildings in which quiet conditions are essential, in locations where the noise level is not high and of locating rooms intended to be especially quiet

in parts of the building where there will be the least disturbance from the usual noises in the building. A general discussion is given of the factors which determine the transmission of sound through partitions. Impact noises and methods of insulating against them receive special mention. The importance of eliminating small openings, which may almost completely destroy the sound insulating value of a wall, is illustrated by examples. It is pointed out that the required sound insulation is less, the greater the normal noise level within the room. The results also show that a wall or floor which is approximately homogeneous must be excessively heavy to be a good sound insulator. If the wall or floor is built in layers which are loosely connected, the sound-insulating properties are greatly improved. Thus, method of construction is more important than nature of material.

(310) **STRUCTURAL PROPERTIES OF "PRE-FAB" CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY THE HARNISCHFEGER CORPORATION** by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 18; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 17, 1939.—20 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

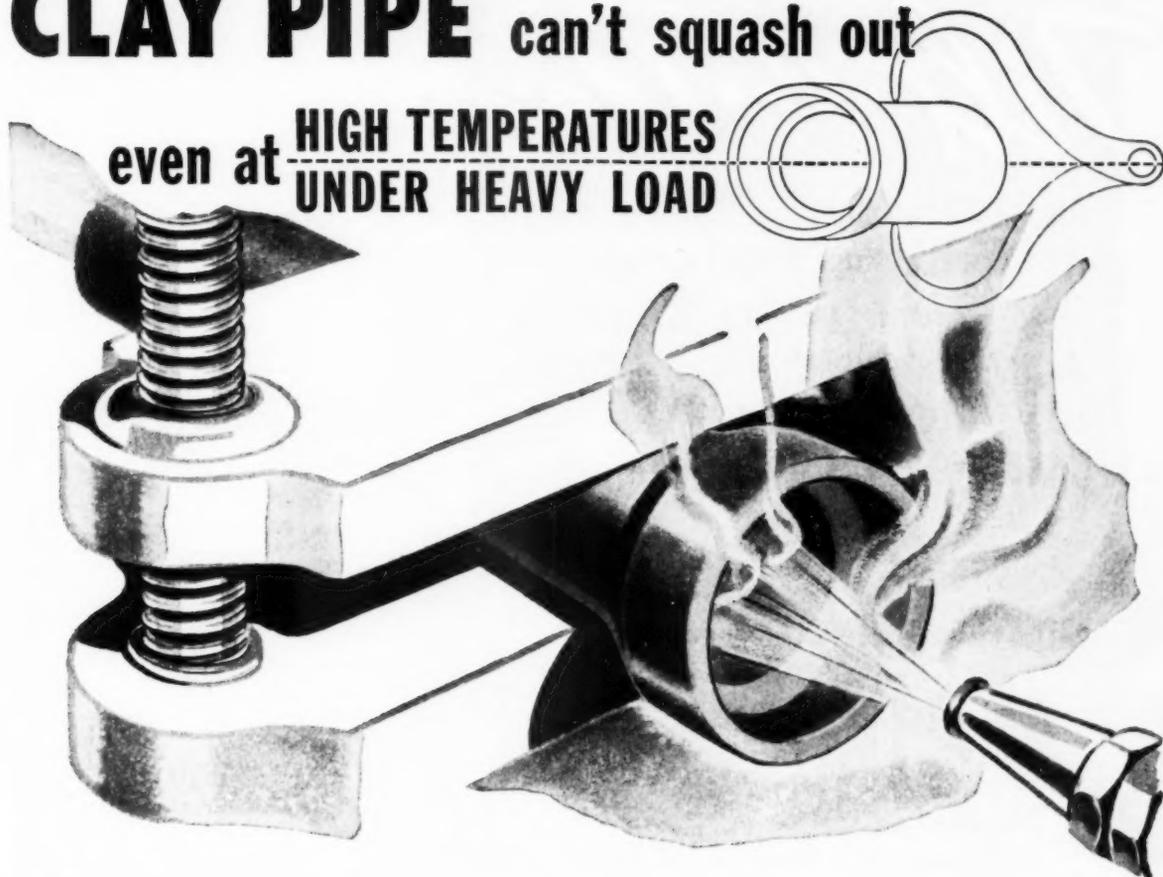
Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Three-foot four-inch wall specimens; (B) Six-foot eight-inch wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 5. Properties of Partition; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Impact load; (c) Concentrated load; 6. Properties of First Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 7. Properties of Second Floor (with sub-headings identical with those under 6); and 8. Additional Comments by Sponsor.

ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Harnischfeger Corporation submitted 33 specimens representing their "Pre-Fab" constructions for walls, partitions, and floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to impact and concentrated loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested, the concentrated-load tests being made on undamaged portions of the specimens used for the transverse or impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load up to the maximum load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(311) **STRUCTURAL PROPERTIES OF "TWACHTMAN" CONSTRUCTIONS FOR WALLS AND FLOORS SPONSORED BY CONNECTICUT PRE-CAST BUILDINGS CORPORATION** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 20; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 17, 1939.—13 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

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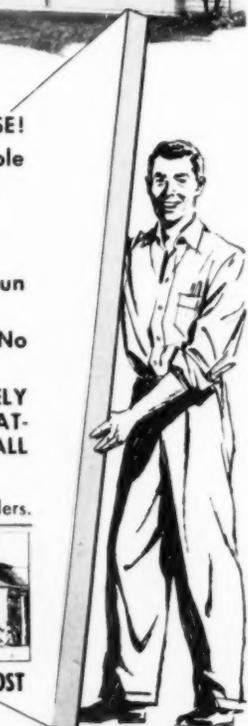


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**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions the Connecticut Pre-Cast Buildings Corporation submitted 24 specimens representing concrete constructions for walls and "Twachtman" precast hollow reinforced-floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(312) **STRUCTURAL PROPERTIES OF A CONCRETE-BLOCK CAVITY-WALL CONSTRUCTION SPONSORED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 21; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 19, 1939.—10 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the National Concrete Masonry Association submitted 12 specimens representing a concrete-block cavity-wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table.

(313) **STRUCTURAL PROPERTIES OF "DUN-TI-STONE" WALL CONSTRUCTION SPONSORED BY THE W. E. DUNN MANUFACTURING COMPANY** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 22; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 14, 1939.—11 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

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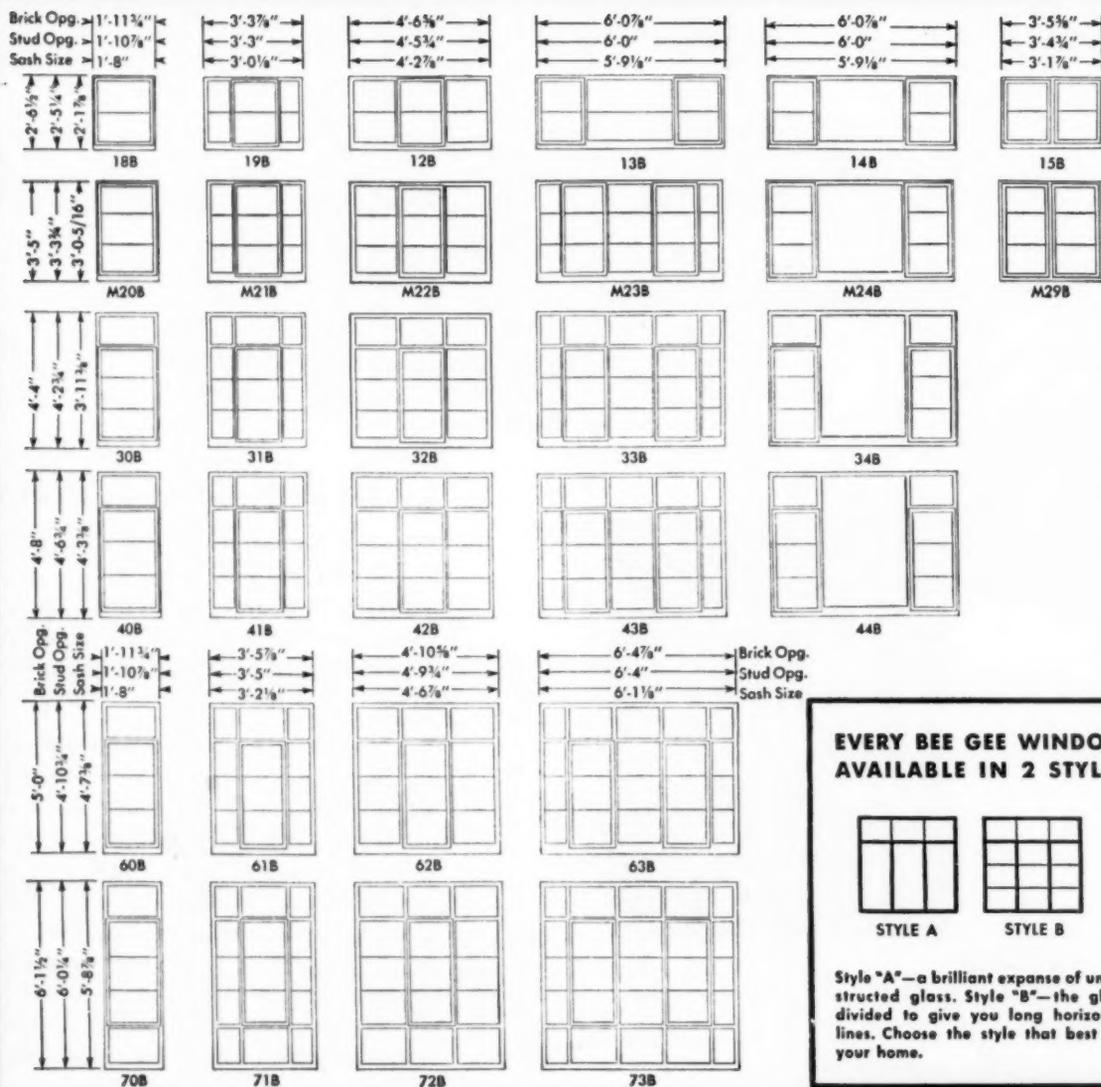
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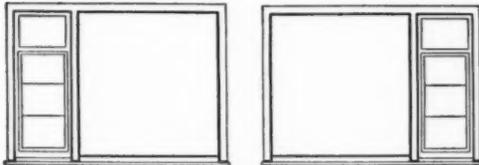
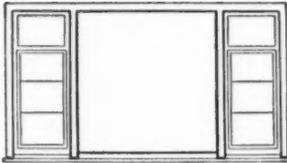
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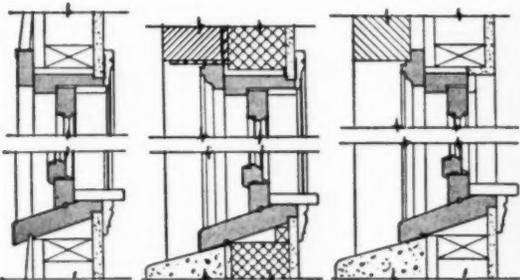
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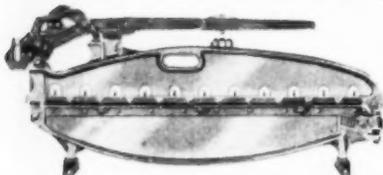
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low-cost house constructions, the W. E. Dunn Manufacturing Co. submitted 18 specimens representing their "Dun-Ti-Stone" construction for walls. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(314) **STRUCTURAL PROPERTIES OF A BRICK CAVITY-WALL CONSTRUCTION** SPONSORED BY THE BRICK MANUFACTURERS ASSOCIATION OF NEW YORK, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 23; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 31, 1939.—12 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (i) Load on facing and backing; (ii) Load on backing only; (c) Transverse load; (f) Concentrated load; (e) Impact load; (f) Racking load; and 5. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Brick Manufacturers Association of New York, Inc., submitted 15 specimens representing a brick cavity-wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The compressive loads were applied to the facing and backing of three specimens and to the backing only of three other specimens. For each of the loads, three alike specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in a table.

(315) **STRUCTURAL PROPERTIES OF A REINFORCED-BRICK WALL CONSTRUCTION AND A BRICK-TILE CAVITY-WALL CONSTRUCTION** SPONSORED BY THE STRUCTURAL CLAY PRODUCTS INSTITUTE, by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 24; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 24, 1939.—17 pages; price 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of First Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; 5. Properties of Second Wall; (a) Sponsor's Statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Selected References; (a) Reinforced brick masonry; and (b) Cavity (hollow) walls.

**ABSTRACT.** For the program on the determination of the structural properties

of low-cost house constructions, the Structural Clay Products Institute submitted 9 specimens representing a reinforced-brick cavity-wall construction. The reinforced-brick wall specimens were subjected to compressive, transverse, concentrated, and impact loads. The brick-tile, cavity-wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated and impact loads were applied to both faces of the brick-tile cavity-wall specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented graphically and in tables.

(316) **STRUCTURAL PROPERTIES OF CONVENTIONAL WOOD-FRAME CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS** by George E. Heck; Building Materials and Structures Report BMS 25; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 13, 1939.—23 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; (a) Specimens; (b) Plastering; (c) Test Procedure; 4. Materials; (a) Wood; (i) Framing; (ii) Sheathing; (iii) Laths; (iv) Siding; (v) Shingles; (b) Paper; (c) Plaster; (i) Mix; (ii) Tensile strength of briquets; (d) Nails; 5. Properties of Wall Frames; (a) Comments; (b) Description; (c) Compressive load; (d) Transverse load; 6. Properties of Wall; (a) Description; (b) Compressive load; (c) Transverse load; (d) Concentrated load (e) Impact load; (f) Racking load; 7. Properties of Load-Bearing Partitions (with sub-headings similar to those under 6.); 8. Properties of Floor; (a) Description; (b) Transverse load; (c) Concentrated load; (d) Impact load; 9. Properties of Roof; (a) Description; (b) Transverse load; (c) Concentrated load; 10. Loads and Deflections in Transverse Tests; 11. Significance of Set Readings; 12. Weights; 13. Two Methods of Testing Walls Under Compressive Load; (a) Comments; (b) Description; (c) Test Results; (d) Discussion; and 14. Selected References.

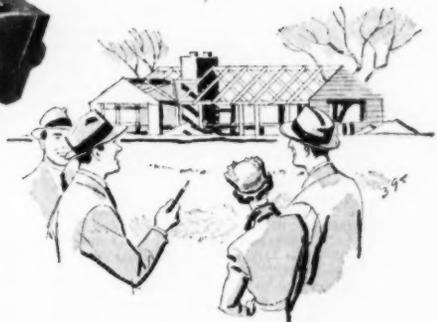
**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Forest Products Laboratory built 39 specimens representing conventional wood-frame construction for walls, partitions, floors, and roofs. In addition, six wall frames without covering were built. The wall-frame specimens were subjected to compressive and transverse loads; the wall and partition specimens to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(317) **STRUCTURAL PROPERTIES OF "NELSON PRE-CAST CONCRETE FOUNDATION" WALL CONSTRUCTION** SPONSORED BY THE NELSON CEMENT STONE COMPANY, INC., by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 26; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 9, 1939.—10 pages; price 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.



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Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Three-foot wall specimens; (B) Nine-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Nelson Cement Stone Co. submitted 18 specimens representing their "Nelson Pre-Cast Concrete Foundation" construction for walls. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(318) **STRUCTURAL PROPERTIES OF "BENDER STEEL HOME" WALL CONSTRUCTION SPONSORED BY THE BENDER BODY COMPANY** by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 27; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 13, 1939.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comment; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, The Bender Body Co. submitted 21 specimens representing their "Bender Steel Home" construction for walls. The specimens were submitted to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(319) **STRUCTURAL PROPERTIES OF A WOOD-FRAME WALL CONSTRUCTION SPONSORED BY THE DOUGLAS FIR PLYWOOD ASSOCIATION** by Herbert L. Whittemore and Ambrose H. Stang, with the collaborator of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 30; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 13, 1939.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sources of information; (b) Materials; (i) Wood; (ii) Nails; (c) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (d) Compressive load; (e) Transverse load; (f) Concentrated load; (g) Impact load; (h) Racking load; and 5. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Douglas Fir Plywood Association sub-

mitted 18 specimens representing a wood-frame wall construction. The sheathing on the outside face and the wallboard on the inside face were both Douglas fir plywood. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated and impact loads were applied to both faces of the specimens. For each of these loads, three like specimens were tested, the concentrated-load tests being made on undamaged portions of the impact specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

(320) **STRUCTURAL PROPERTIES OF "INSULITE" WALL AND "INSULITE" PARTITION CONSTRUCTIONS SPONSORED BY THE INSULITE CO.** by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 31; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 26, 1939.—52 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of information; (b) Wood; (i) Framing; (ii) Bevel siding; (iii) Nailing strips; (iv) Furring strips; (v) Shingles; (c) Insulating board; (i) General; (ii) "Bildrite" sheathing; (iii) "Graylite" interior board; (iv) "Lok-Joint" lath; (d) Nails; (e) Plaster; (f) Stucco finish; (i) Stucco; (ii) Sheathing paper; (iii) Metal lath; (iv) Staples; (v) Wire; (g) Brick veneer; (i) Brick; (ii) Mortar; (iii) Wall ties; 5. Properties of First Wall; (a) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-headings identical with those under 5); 7. Properties of Third Wall (same sub-headings); 8. Properties of Fourth Wall (with same sub-headings); 9. Properties of Fifth Wall (with same sub-headings); 10. Properties of Sixth Wall (with same sub-headings); 11. Properties of First Partition; (a) Description, sponsor's statement; (b) Impact load; (c) Concentrated load; 12. Properties of Second Partition (with sub-headings identical with those under 11); 13. Sponsor's comments; and 14. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, The Insulite Co. submitted 114 specimens representing 6 wall and 2 partition constructions having wood framing with "Bildrite" sheathing, "Graylite" interior board, and "Lok-Joint" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads and the partition specimens to impact and concentrated loads. The transverse, concentrated and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(321) **STRUCTURAL PROPERTIES OF TWO BRICK-CONCRETE-BLOCK WALL CONSTRUCTIONS AND A CONCRETE-BLOCK WALL CONSTRUCTION SPONSORED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 32; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 2, 1939.—19 pages; price: 10¢. Order copies from Su-

perintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of information; (b) Brick; (c) Concrete units; (i) "Haydite", first wall; (ii) "Waylite" units, second wall; (iii) "Pottico" units, third wall; (d) Mortar; 5. Fabrication data; 6. Properties of first wall; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 7. Properties of Second Wall; and 8. Properties of Third Wall (Note: 7 and 8 have sub-headings identical with those under 6.)

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the National Concrete Masonry Association, Chicago, Ill., submitted 48 specimens representing 3 wall constructions, 2 of which consisted of brick facing and concrete-block backing, the other of concrete blocks only. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to both faces of the brick-concrete-block wall constructions. For each of the loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

(322) **STRUCTURAL PROPERTIES OF WOOD-FRAME WALL, PARTITION, FLOOR, AND ROOF CONSTRUCTIONS WITH "RED-STRIPE" LATH SPONSORED BY THE WESTON PAPER AND MANUFACTURING CO.** by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 36; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 2, 1940.—26 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sources of Information; (b) Wood; (i) Framing for walls and partitions; (ii) Framing for floors and roofs; (iii) Sheathing and subflooring; (iv) Bevel siding; (v) Bridging; (vi) Flooring; (vii) Spacers and grounds; (c) "Red Stripe" lath; (i) Description; (ii) Physical properties; (d) Nails; (e) Plaster; (f) Sheathing paper; (g) Tacks; (h) Size; (i) Paints; (A) Outside; (B) Inside; (j) Shellac varnish; (k) Roofing; (i) Asphalt; (ii) Caps; 5. Properties of Wall; (a) Description, sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Partition; (a) Description, sponsor's statement; (b) Concentrated load; (c) Impact load; 7. Properties of Floor; (a) Description, sponsor's statement; (b) Transverse load; (c) Concentrated load; (d) Impact load; 8. Properties of Roof; (a) Description, sponsor's statement; (b) Transverse load; (c) Concentrated load; and 9. Comments by Sponsor.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, The Weston Paper and Manufacturing Co. submitted 30 specimens representing wood-frame wall, partition, floor, and roof constructions with "Red Stripe" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to concentrated and impact loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. For each of the loads three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens, and for each of these

loads six like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

- (323) **STRUCTURAL PROPERTIES OF "PALISADE HOMES" CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY PALISADE HOMES** by Herbert L. Whittemore and Ambrose H. Stang; Building Materials and Structures Report BMS 37; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 13, 1940.—23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Sponsor's statement; (b) Wood; (i) Structural members; (ii) Plywood wallboard; (iii) Flooring; (iv) Battens; (v) Filler strips; (c) Fastenings; (i) Nails; (ii) Box strapping; (iii) Perforated hanger iron; (iv) Blind fasteners; (v) Corrugated fasteners; (vi) Splines; (d) Paint; (e) Shellac varnish; 5. Properties of Wall; (a) Sponsor's statement; (i) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (ii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of First Partition; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Concentrated load; (c) Impact load; 7. Properties of Second Partition (with sub-headings identical with those under 6); 8. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 9. Additional Comments by Sponsor; and 10. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, Palisade Homes submitted 30 specimens representing their "Palisade Homes" patented construction for walls, partitions, and floors. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the partition specimens to impact and concentrated loads; and the floor specimens to transverse, concentrated, and impact loads. The transverse, concentrated, and impact loads were applied to both faces of wall specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

- (324) **STRUCTURAL PROPERTIES OF TWO "DUNSTONE" WALL CONSTRUCTIONS SPONSORED BY THE W. E. DUNN MANUFACTURING CO.** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 38; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 7, 1940.—13 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of First Wall; (a) Description; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Fabrication data; (b) Compressive load; (c) Transverse load; (d) Concentrated load (e) Impact load; (f) Racking load; 5. Properties of Second Wall (with sub-headings identical with those under 4); and 6. Sponsor's Comments.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions the W. E. Dunn Manufacturing Co. submitted 24 specimens representing 2 designs of their "Dunstone" constructions for walls. The specimens were subjected to compressive, transverse, concentrated, impact,

and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in a table.

- (325) **STRUCTURAL PROPERTIES OF A WALL CONSTRUCTION OF "PFEIFER UNITS" SPONSORED BY THE WISCONSIN UNITS COMPANY** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 39; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Published January 31, 1940.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 5. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Wisconsin Units Co. submitted 13 specimens representing a wall construction of "Pfeifer Units." The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

- (326) **STRUCTURAL PROPERTIES OF A WALL CONSTRUCTED OF "KNAP CONCRETE WALL UNITS" SPONSORED BY Knap AMERICA, INC.,** by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 40; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 21, 1940.—14 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, Knap America Inc. submitted 12 specimens representing a wall construction of "Knap Concrete Wall Units." The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

- (327) **EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS** by Cyrus C. Fishburn and Perry H. Petersen; Building Materials and Structures Report BMS 41; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 11, 1940.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. The Walls; (a) Materials; (b) Workmanship; 3. Permeability Tests; 4. Heating and Cooling of the Walls; 5. Discussion of Permeability Test Data; (a) All-brick walls; (b) Walls with brick facings and hollow-unit backings; (c) Walls with stucco facings; and 6. Conclusions.

**ABSTRACT.** Since the coefficients of thermal expansion of masonry units and mortars are unequal, changes in temperature may tend to cause cracks in the mortar joints of masonry walls. Exposure to wind-driven rain may then result in the leakage of water through the walls. Permeability tests were made on 11 small masonry wall specimens before and after exposing them to a number of cycles of heating and cooling. Seven of the specimens were 12-in. brick walls, two were of clay tile with stucco facings, and two were brick walls with hollow-unit backings. The walls were dry when subjected to extremes of temperature over a range of about 105° F. The maximum air temperature was about 125° F. and the minimum less than 20° F. For each cycle, the walls were stored in the heating or cooling rooms until they attained room temperature. Data obtained from the tests indicated that repeated exposures of dry walls to extremes of temperature did not have an important effect on the permeability of all-brick walls. The permeability of the walls with facings of brick and backings of hollow units and of those faced with stucco increased slightly as the result of exposure to cycles of heating and cooling.

- (328) **STRUCTURAL PROPERTIES OF WOOD-FRAME WALL AND PARTITION CONSTRUCTIONS WITH "CELOTEX" INSULATING BOARDS SPONSORED BY THE CELOTEX CORPORATION** by Herbert L. Whittemore, and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 42; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 2, 1940.—25 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating board; (c) Nails; (d) Plaster; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-sections identical with those under 5.); 7. Properties of Partition; (a) Sponsor's statement; (b) Concentrated load; (c) Impact load; and 9. Sponsor's Comments.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, The Celotex Corporation submitted 42 specimens representing 2 wall and 2 partition constructions having wood framing with "Celotex Vapor-seal Insulating" sheathing, "Celotex" building board, and "Celotex Vapor-seal Insulating" lath. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads and the partition specimens to impact and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The results are presented in graphs and in tables.

- (329) **STRUCTURAL PROPERTIES OF "SCOT-BILT" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, FLOORS, AND ROOFS SPONSORED BY THE GLOBE-WERNICKE CO.** by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 46; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Is-

sued May 23, 1940.—24 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Steel; (b) Wood; (c) Nails; (d) Screws; (e) Bolts and nuts; (f) Mineral wool; (g) Adhesive; (h) Roof insulating board; (i) Roofing; (j) Gypsum wallboard; (k) Paint; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 7. Properties of Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; and 8. Additional Comments by Sponsor. ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions The Globe-Wernicke Co. submitted 27 specimens representing their "Scot-Bilt" prefabricated sheet-steel wall, floor, and roof constructions. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The loads simulated the loads to which the elements of a house are subjected in actual service. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(330) STRUCTURAL PROPERTIES OF PREFABRICATED WOOD-FRAME CONSTRUCTIONS FOR WALLS, PARTITIONS, AND FLOORS SPONSORED BY AMERICAN HOUSES, INC., by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of Thomas R. C. Wilson, Forest Products Laboratory; Building Materials and Structures Report BMS 47; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 3, 1940.—26 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Wallboard; (c) Nails; (d) Sheathing paper; (e) Staples; (f) Glue; (g) Joint filler; (h) Tape; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Load-Bearing Partition; (a) Sponsor's statement; (i) Four-foot partition specimens; (ii) Eight-foot partition specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 7. Properties of Non-Load Bearing Partition; (a) Sponsor's statement; (i) Description of specimens; (ii) Comments; (b) Concentrated load; (c) Impact load; 8. Properties of Floor; (a) Sponsor's statement; (i) Description of specimens; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; and 9. Additional Comments by Sponsor. ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, American Houses, Inc., New York, N. Y., submitted 39 specimens representing wood-frame wall, partition, and floor constructions. The wall and load-bearing partition specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the nonload-bearing partition specimens to concentrated and impact loads; the floor specimens to transverse, concentrated, and impact loads. For each of the loads, three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(331) STRUCTURAL PROPERTIES OF "PRECISION-BUILT" FRAME WALL AND PARTITION CONSTRUCTIONS SPONSORED BY THE HOMASOTE CO., by Herbert L. Whittemore and Ambrose H. Stang, with the collaboration of George E. Heck, Forest Products Laboratory; Building Materials and Structures Report BMS 48; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 13, 1940.—30 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) "Homasote" insulating fiberboard; (c) Nails; (d) Glue; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Twelve-foot wall specimens; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall (with sub-headings identical with those under 5); 7. Properties of Load-Bearing Partition; (a) Sponsor's statement; (i) Four-foot partition specimens; (ii) Eight-foot partition specimens; (iii) Twelve-foot partition specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 8. Additional Comments by Sponsor. ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 63 specimens, representing 2 wall and 1 partition constructions, consisting of wood frames with "Homasote" insulating fiberboard as inside face, as outside face, and as sheathing. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in tables.

(332) STRUCTURAL PROPERTIES OF A MASONRY WALL CONSTRUCTION OF "MUNLOCK DRY WALL BRICK" SPONSORED BY THE MUNLOCK ENGINEERING CO. by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 53; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 13, 1940.—12 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Wall; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Fabrication data; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; and (f) Racking load. ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Munlock Engineering Co., submitted 12 specimens representing their "Munlock Dry Wall Brick" wall construction. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in a table.

(333) EFFECTS OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS by Cyrus C. Fishburn; Building Materials and Structures Report BMS

55; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 18, 1940.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of the Walls; (a) Materials; (b) Workmanship; 3. Method of Test; (a) The wetting exposure; (b) Drying the walls; (c) The observations; 4. Effects of Wetting and Drying on the Permeability of the Walls; (a) All-brick walls; (b) Walls with brick facings and hollow-unit backings; (c) Wall with stucco facings; and 5. Conclusions. ABSTRACT. Since the volume changes resulting from the wetting and drying of masonry units and mortars are unequal, changes in the moisture content of a masonry wall may produce differential volume changes between the units and the mortar, resulting in the formation or enlargement of cracks in the joints. The effects of changes in the moisture content of 8 small masonry walls were studied by measuring the permeability of the walls during each of about 12 cycles of wetting and drying. The walls were wetted by applying water to the exposed face simulating an exposure to a wind-driven rain. The specimens were not subjected to freezing during wetting or drying. Five of the walls were of all-brick construction, one was a stucco-faced wall, and two were faced with brick and backed with hollow units. There was no significant change in the permeability of the walls resulting from the exposure to wetting and drying.

(334) STRUCTURAL PROPERTIES OF TWO NONREINFORCED MONOLITHIC CONCRETE WALL CONSTRUCTIONS by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 61; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 28, 1940.—13 pages; Out of print. See your librarian.

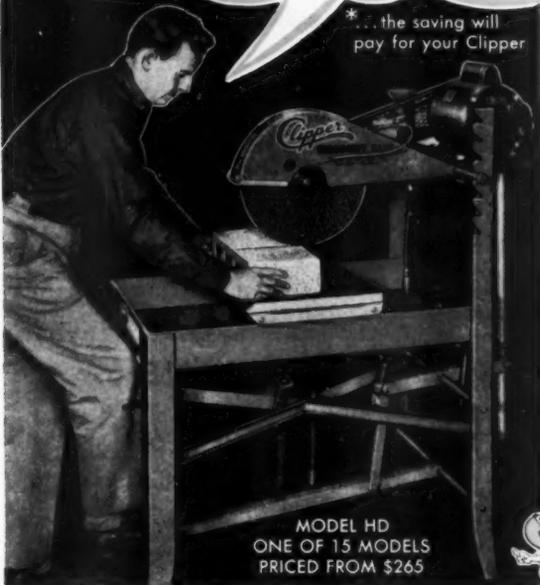
Includes a consideration of: 1. Introduction; 2. Sponsor; 3. Specimens and Tests; 4. Materials; (a) Cement; (b) Aggregates; (i) Fine; (ii) Coarse; 5. Properties of First Wall; (a) Description; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load; 6. Properties of Second Wall (with subdivisions identical with those under 5); and 7. Comments. ABSTRACT. For the program on the determination of the structural properties of low-cost house constructions, the Masonry Construction Section of the National Bureau of Standards built 24 specimens representing two nonreinforced monolithic concrete wall constructions. The only difference in their construction was in the proportions of the concrete. The specimens were subjected to compressive, transverse, impact, concentrated, and racking loads. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for each increment of load; the results are presented in graphs and a table.

(335) STRUCTURAL PROPERTIES OF "MU-STEEL" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY HERMAN A. MUGLER by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 67; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 2, 1941.—25 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Steel; (b) Bolts; (c) Paint; (d) Insulating board; (e)

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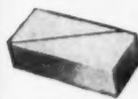
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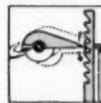
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*Thermopane* costs more than single glass, of course, but this cost is offset by its tremendous appeal to home buyers. Builders all over the country have found *Thermopane* a terrific sales feature—it helps sell houses faster.

### THERMOPANE—

#### for every window of new homes

Builders have found the appeal of *Thermopane* so great that they are using it in every window of even moderately priced homes—homes that sell for \$10,000 to \$15,000. They use simple methods of fenestration and glazing to achieve on-the-site economies. Your L·O·F Distributor or Dealer can tell you about them. Home owners love *Thermopane*, because they don't have to bother with storm sash. They get their window insulation in the original financing. And you get their window insulation business.

### THERMOPANE for remodeling



There are millions of homes with old-fashioned window arrangements—windows that mark a home as out of date—windows that deprive home owners of views they want. Get remodeling business by suggesting replacement with picture windows of *Thermopane* insulating glass.



Many a home owner wishes he had another room instead of an open porch, a breezeway or a carport. Suggest enclosing them with walls of *Thermopane*—a simple way to add a bright, cheery room. This is an easy remodeling job that can add up to good business for you. 1954 is a big year for remodeling and expansion of homes.



## Types of THERMOPANE for homes



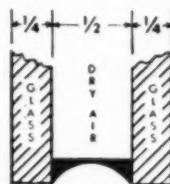
Two lights of DSA Glass  
 $\frac{1}{8}$ " glass thickness  
 and  $\frac{1}{4}$ " air space.  
 Number of standard sizes—63  
*Thermopane* made with DSA Glass is economical double glazing.

While made with the finest quality window glass, it does not provide the clarity of vision attained with Polished Plate Glass.



Two lights of Plate Glass  
 $\frac{1}{8}$ " glass thickness  
 and  $\frac{1}{4}$ " air space.  
 Number of standard sizes—55  
*Thermopane* made with  $\frac{1}{8}$ " Polished Plate Glass provides

better vision and gives the home a finer quality appearance.



Two lights of Plate Glass  
 $\frac{1}{4}$ " glass thickness and  
 $\frac{1}{2}$ " air space.  
 Number of standard sizes—47

This *Thermopane* provides excellent thermal insulation, combined with the clarity of vision that you get only with Polished Plate Glass. Ideal for picture windows and window walls.

### THERMOPANE made with special glasses

*Thermopane* can be made with four types of glass for reduction of glare and solar energy transmissions:  
 $\frac{1}{4}$ " or  $\frac{1}{8}$ " Heat Absorbing Plate Glass—blue-green, transparent.  
 $\frac{1}{4}$ " or  $\frac{1}{8}$ " Aklo\* Hammered Glass—blue-green, translucent.

For diffusion of light and for decoration, it can be fabricated with any one of several Blue Ridge Glass patterns.

For extra resistance to thermal shock or impact, it can be fabricated with *Tuf-flex\** tempered plate glass. \*®

# with *Thermopane*<sup>®</sup> Insulating Glass

## IMMEDIATE DELIVERY of standard sizes

L·O·F Distributors carry many standard sizes of *Thermopane* in stock to fill your orders promptly.

### Standard sizes save time—cost less

If you don't have a recent list of standard sizes, ask your L·O·F Distributor or Dealer for one. Or write us. You can save time and money with standard sizes. Standard sizes are popular for they're made in large quantities and therefore cost less.

As you can see from the figures on the left page, there are many standard sizes in each type of *Thermopane*. You can meet the need for many types of ventilating sash, and for picture windows of almost any shape.

### Sash for THERMOPANE

The list of types and brands of sash for *Thermopane* has grown so fast and so large that it is impossible to list them here. These are some of the standard types of sash which take *Thermopane*:

#### Picture Windows and Window Walls

You can buy ready-made frames for picture windows, or fabricate them yourself. For details on framing required for *Thermopane's* extra thickness, consult your L·O·F Distributor or Dealer. *Thermopane* insulating glass is a "must" for big windows.

#### Panel Windows

With this popular window, an entire house can be glazed with just two standard sizes of *Thermopane*—one for fixed lights and the other for ventilators. For the past three years, builders throughout the country have used this *Thermopane* construction, and have sold their houses at no higher price than conventional houses with single glazing.

#### Wood Double Hung, Casement and Sliding Windows

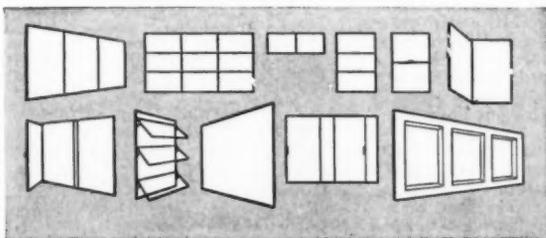
With *Thermopane* in these widely-used windows, your customers get the benefits of double glazing without the bother of storm sash.

#### Steel and Aluminum Windows

Casement, awning and panel window types are available for glazing with *Thermopane*.

#### Farm Building Windows

*Thermopane* can readily be installed in windows of livestock buildings. It reduces condensation and rot. It retains more sun heat in winter to keep livestock warmer, more healthy, more productive.



## BIGGEST ADVERTISING CAMPAIGN EVER

In 1954, L·O·F will continue to advertise *Thermopane* consistently in the leading home magazines. And L·O·F is adding two new magazines—*The Saturday Evening Post* and *Newsweek*—together these two added magazines reach almost 21,000,000 readers!



*Thermopane* is the best-known double glazing due to consistent advertising. For ten years your customers have been reading about *Thermopane*. Isn't it time to give buyers this popular feature?

## USE THIS HELPFUL MATERIAL . . .

To assist you and your staff in using *Thermopane* insulating glass, we offer a number of helpful items. See your L·O·F Glass Distributor or Dealer for them—or write us.

List of standard sizes  
Simple framing methods  
(complete details)

List of sash types for *Thermopane*  
Folder on the Panel Window System

*Thermopane* booklet  
—to assist you in explaining  
*Thermopane's* value to prospects

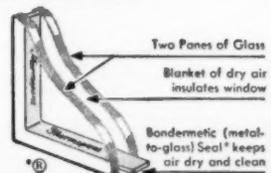
*Thermopane* banner—so prospects  
will know that your houses have  
this valuable feature.

Get in touch with your L·O·F Glass Distributor or Dealer. Ask him to help you figure *Thermopane* for your next house. See how little extra it costs to add the sales power of America's best-known double-glazing to your homes.



*Thermopane*  
INSULATING GLASS

LIBBEY·OWENS·FORD  
GLASS COMPANY  
344 Nicholas Building  
Toledo 3, Ohio



Sheathing paper; (f) Wood; (g) Nails; (h) Roof covering; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Impact load; (e) Concentrated load; (f) Racking load; 6. Properties of Partition; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Impact load; (c) Concentrated load; 7. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 8. Properties of Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; and 9. Additional Statements by Sponsor.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, Herman A. Mugler submitted 33 specimens representing his "Mu-Steel" prefabricated sheet-steel wall, partition, floor, and roof constructions. The wall specimens were subjected to compressive, transverse, impact, concentrated, and racking loads; the partition specimens to impact and concentrated loads; the floor specimens to transverse, impact, and concentrated loads; and the roof specimens to transverse and concentrated loads. The transverse, impact, and concentrated loads were applied to both faces of the wall specimens. The impact and concentrated loads were applied to both faces of the partition specimens. The loads simulated the loads to which the elements are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results of the measurements are presented in graphs and tables.

**(336) FIRE TESTS OF WOOD- AND METAL-FRAMED PARTITIONS** by S. H. Ingberg and Nolan D. Mitchell; Building Materials and Structures Report BMS 71; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 12, 1941.—51 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Lumber; (b) Channels; (c) Lath; (d) Sand; (e) Plaster; 3. Construction of Partitions; (a) Framework; (i) Wood frames; (ii) Steel frames; (b) Lathing; (c) Facings; (i) Board facings; (ii) Gypsum plaster; (iii) Lime plaster; (iv) Portland cement plaster; (v) Equivalent volume proportions; (vi) Curing of plaster; (vii) Thickness of plaster facings; (d) Mineral fills; 4. Equipment and method of testing; 5. Results of Tests; (a) Partitions of plaster-less types; (b) Plastered partitions with combustible framework and combustible lath; (c) Plastered partitions with wood framing and incombustible or partly combustible lath; (i) Gypsum lath; (ii) Paper backed metal fabrics; (iii) Metal lath, gypsum plaster; (iv) Metal lath, lime plaster; (v) Metal lath, portland cement plaster; (d) Hollow partitions with combustible framing and incombustible or partly combustible lath; (e) Solid plaster partitions with incombustible framework and incombustible or partly combustible lath; (i) Board plaster bases; (ii) Metal-lath base, gypsum plaster; (iii) Metal-lath base, portland cement plaster; (f) Partition facings as protective finish over combustible framing; (g) Deflection and stability; 6. Summary and Discussion; (a) Board partitions without plaster; (b) Hollow wood-framed partitions with plaster on combustible bases; (c) Hollow wood-framed partitions with plaster on incombustible or partly combustible bases; (i) Variations in results due to thickness; (ii) Partitions with gypsum plaster bases; (iii) Wood-stud, metal-lath partitions; (A) Gypsum plaster; (B) Lime plaster; (C) Portland cement plaster; (d) Hollow steel-stud partitions; (e) Solid plaster partitions; (f) Partition facings as protection for combustible supports; (g) Resistance to the hose stream; (h) Significance of fire-endurance limits; 7. Appendix A. Standard Specifications for Fire Tests of Building Construction and Materials, American Standard ASA No. A2-1934; 8. Appendix B. Selected References on Fire Tests of Wood- and Metal-Framed Partitions.

**ABSTRACT.** This report describes in some detail the test partitions and gives the results of 147 fire-endurance or fire and hose-stream tests conducted at the National Bureau of Standards. Seventy-

eight of the partitions were of wood or framed with wood studs and faced with wood, wood fiber, or gypsum boards, or with plasters applied on wood, gypsum, expanded metal, or wire laths. The others were of hollow or solid incombustible nonbearing types, most of which were framed with steel channels and had body or facings of gypsum or portland cement plaster on metal laths. Most of the wood-stud partitions were of the load-bearing type, and 38 of them were tested under a constant working load while exposed to fire. Their fire-resistance limits, depending on the facings, ranged from 10 min. with  $\frac{1}{2}$ -in. wood-fiber insulating boards applied on each side to 2 hr. with 1-in.-thick facings of neat wood-fibered gypsum plaster. Filling the spaces between studs with mineral wool increased the fire resistance appreciably. The fire-resistance limit was considered reached when (a) failure under load or passage of flame occurred, (b) the limiting temperature rise (250 degrees F. average or 325 degrees F. maximum) was reached on the unexposed side, or (c) cotton waste in contact therewith became ignited. The protection given the wood studs by the fire-exposed facing, as based on the limiting temperature rise on the edges facing the furnace, ranged from one-sixth to one-third of the fire-resistance limit of the partition construction as such. The walls with metal-framed hollow partitions differed little from those with wood-stud partitions having the same facings, in so far as the rise of temperature on the unexposed surface was concerned, but the former remained longer as barriers to the spread of fire after such technical end points had been reached. For the solid plaster partitions, 2 to 2½ in. thick, the range in fire resistance was from 20 min. with portland cement sanded plaster or mortar to 2½ hr. with unsanded fibered gypsum plaster. Sanded gypsum plasters gave intermediate results. For incombustible materials not subject to decided cracking or spalling when exposed to the furnace test, it was found that the fire-resistance, as limited by the temperature rise on the side not exposed to fire, varied approximately with the 1.7 power of the thickness of solid partitions or combined thickness of facings for those of hollow type. This is in fair agreement with relations derived from the theory of heat conduction.

Partition constructions of materials and types that restrict the spread of fire contribute appreciably to fire safety. In buildings that are structurally of the fire-resistive or fireproof type, a fire thus can be prevented from spreading beyond the area in which it originated, and in non-fire-resistive buildings its progress can be greatly retarded. This paper gives the results of fire tests of particular constructions representative of a wide range in materials and design. The results are given in terms of performance under recognized testing procedure. This enables regulatory bodies to require ratings for partitions in certain general locations, with assurance that practical constructions are available that will meet the requirements. It also gives the builder a choice of constructions that will meet the requirements, thus making possible the use of the most advantageous type in a given building or project, which should assist in obtaining the desired degree of fire resistance at lowest cost. Partitions of given fire-resistance ratings are generally required as separations between tenants, subdivisions of large areas, and for segregating hazardous occupancies, processes, or storage. Even within an area for which no legal requirements for fire subdivision apply, the use of partitions of materials that will contribute a minimum to the severity of the fire and in some degree present a barrier to its spread is an effective means of structural fire control.

**(337) STRUCTURAL PROPERTIES OF "PRECISION-BUILT, JR." PREFABRICATED WOOD-FRAME WALL CONSTRUCTION** SPONSORED BY THE HOMASOTE CO. by Archie H. Easton and Mahlon F. Peck, with the collaboration of R. F. Luxford (Forest Products Laboratory); Building Materials and Structures Report BMS 72; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 14, 1941.—14 pages; Price: 10c. Order copies from Superintendent of Documents, U. S.

Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating Fiberboard; (c) Nails; (d) Glue; 5. Properties of the Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Additional Comments by Sponsor; and 7. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 12 specimens representing a wall construction consisting of a wood frame with "Homasote" insulating fiberboard on both faces. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; for each load three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The results are presented in graphs and in a table.

**(338) STRUCTURAL AND HEAT-TRANSFER PROPERTIES OF "U.S.S. PANELBILT" PREFABRICATED SHEET-STEEL CONSTRUCTIONS FOR WALLS, PARTITIONS, AND ROOFS** SPONSORED BY THE TENNESSEE COAL, IRON & RAILROAD CO. by Herbert L. Whittemore, Ambrose H. Stang, Vincent B. Phelan, and Richard S. Dill; Building Materials and Structures Report BMS 74; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 30, 1951.—28 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat Transfer; 4. Materials; (a) Steel; (b) Paint; (c) Insulating board; (d) Screws; (e) Bolts; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Heat-transfer specimens; (iv) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; (g) Heat transfer properties; 6. Properties of Second Wall (with sub-sections similar to those given under 5); 7. Properties of Partition; (a) Sponsor's Statement; (i) Description; (ii) Comments; (b) Concentrated load; (c) Impact load; 8. Properties of Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; 9. Additional Comments by Sponsor.

**ABSTRACT.** For the program on the determination of the structural and heat-transfer properties of low-cost house constructions, the Tennessee Coal, Iron & Railroad Co. submitted 42 specimens representing its "U.S.S. Panelbilt" prefabricated sheet-steel constructions. There were two wall constructions, a partition construction, and a roof construction. The wall specimens were subjected to comprehensive transverse, concentrated, impact, and racking loads; the partition specimens to concentrated and impact loads; and the roof specimens to transverse and concentrated loads. Transverse, concentrated, and impact loads were applied to both faces of the wall specimens. The loads simulated the loads to which the specimens are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables. Heat-transfer properties were determined for one wall specimen by means of tests in a shielded hot-box heat-transfer apparatus. The results are given in a table.

**(339) EFFECT OF OUTDOOR EXPOSURE ON THE WATER PERMEABILITY OF MASONRY WALLS** by Cyrus C. Fishburn, Douglas E. Parsons, and Perry H. Petersen; Building Materials and Structures Report BMS 76; pub-

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lished by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 15, 1941.—21 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. The Wall Specimens; (a) Materials used in the walls; (b) Workmanship used in the walls; (c) Walls with waterproofed faces; (d) Walls without waterproofings; 3. Method of Test; (a) Outdoor exposure; (b) Permeability tests; (c) Observations; (d) The data; (e) Performance ratings; 4. Effects of the Outdoor Exposure; (a) Structural condition of the walls after exposure; (i) All-brick masonry walls, not waterproofed; (ii) Other masonry walls, not waterproofed; (iii) Waterproofed masonry walls; (b) Permeability of the plain, not-waterproofed walls; (i) All-brick and brick-faced walls 8 or more inches in thickness; (ii) Four-inch brick walls with parged backings; (iii) Stucco-faced walls; (c) Permeability of the waterproofed walls; (i) Walls treated with paraffin and tung-oil solutions and waxes; (ii) Walls with repointed face joints; (iii) Walls with grouted face joints; (iv) Walls painted with oil or cement-water paints; (v) Proprietary waterproofing materials; and 5. Summary.

**ABSTRACT.** The water permeabilities of about 100 small masonry-wall specimens were measured before and after exposing them to the weather at Washington, D. C., for a maximum period of 3 years. Some of the more permeable walls had been waterproofed before exposure, and the durability of the waterproofing treatments, as well as the structural appearance or condition of the walls, was also determined. The exposure did not have an important effect on the permeability of all-brick or brick-faced walls 8 in. or more in thickness. The permeability of stucco-faced walls was slightly increased. Repointing of the face joints was the most effective and durable of the water-proofing treatments.

Two previous reports (BMS 41: EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS, and BMS 55: EFFECT OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS) describe investigations of the factors affecting the water permeability of small masonry walls when first constructed. These are listed as items (327) and (333) of the present reading list. For a description of the materials and of the method or types of workmanship used in the construction of the walls, see report BMS 7: WATER PERMEABILITY OF MASONRY WALLS, which is item (305) of this list.

(340) **STRUCTURAL, HEAT-TRANSFER, AND WATER-PERMEABILITY PROPERTIES OF FIVE EARTH-WALL CONSTRUCTIONS** by Herbert L. Whittemore, Ambrose H. Stang, Elbert Hubbell, and Richard S. Dill; Building Materials and Structures Report BMS 78; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 1, 1941.—55 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Earth; (b) Cement; (c) Lime; (d) Sand; (e) Mortar; (f) Bituminous stabilizer; 3. Specimens; (a) Adobe-block walls; (i) General information; (ii) Manufacture of blocks; (iii) Control; (iv) Construction of wall; (b) Bitudobe-block walls (with sub-headings same as in "a"); (c) Monolithic terracrete walls (with sub-headings similar to those in "a"); (d) Terracrete-block walls (with sub-headings same as in "a"); (e) Rammed-earth walls (with sub-headings similar to those in "a"); 4. Structural Properties; (a) Properties of adobe-block wall; (i) Description; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Backing load; (b) Properties of bitudobe-block wall (with sub-headings similar to those under "a"); (c) Properties of monolithic terracrete walls (with sub-headings similar to those under "a"); (d) Properties of terracrete-block wall (with sub-headings similar to those under "a"); (e) Properties of rammed-earth wall (with sub-headings similar to

those under "a"); 5. Heat-Transfer Properties; (a) Specimens; (b) Heat-transfer test equipment; (c) Heat-transfer test procedure; (d) Heat-transfer test results; 6. Water-Permeability Properties; (a) Specimens; (b) Water-permeability test procedure; (c) Water-permeability test results; (d) Conclusions; 7. Additional Comments; (a) Types of construction; (i) Wattle and daub; (ii) Sod houses; (iii) Mud walling; (iv) Poured earth; (v) Monolithic adobe; (vi) Adobe block; (vii) Rammed earth; (b) Selection of earth; (c) Construction equipment; (d) Protection against moisture; (e) Construction details; and 8. Selected References.

**ABSTRACT.** For the program on the investigation of low-cost house constructions, specimens representing adobe, bitudobe, monolithic terracrete, terracrete-block, and rammed-earth walls were constructed with the cooperation of The Office of Indian Affairs and the National Youth Administration. These specimens were subjected to structural, heat-transfer, and water-permeability tests. Sixty structural specimens were subjected to compressive, transverse, concentrated, impact, and racking loads. The transverse, concentrated, and impact loads were applied to one face. The loads simulated those to which elements of a house are subjected in actual service. The deformations under load and the sets after the load was removed were measured for each increment of load. Five heat-transfer specimens were subjected to a temperature differential that might occur in actual service. Five water-permeability specimens were tested under conditions that simulated exposure to a heavy, wind-driven rain. Although the use of earth as a building material has been described in numerous articles in popular periodicals, and a considerable number of houses had been built of this material, there was a lack of technical information on the structural, thermal, and water-permeability properties of such constructions. These properties have now been determined by the same methods previously used by the National Bureau of Standards to determine the properties of masonry and wood constructions. The program for testing earth-wall constructions was developed at a conference attended by Thomas Hibben, National Youth Administration; Elbert Hubbell, The Office of Indian Affairs; Commander C. S. Stephenson, Bureau of Medicine and Surgery, Navy Department; T. A. H. Miller, Bureau of Agricultural Chemistry and Engineering; Francis Macdonald, Consulting Engineer; and five officials of the National Bureau of Standards; D. E. Parsons, C. C. Fishburn, H. L. Whittemore, A. H. Stang, and G. W. Shaw.

(341) **WATER PERMEABILITY OF WALLS BUILT OF MASONRY UNITS** by Cyrus C. Fishburn; Building Materials and Structures Report BMS 82; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 15, 1942.—37 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Wall Specimens; (a) Sponsors; (b) Materials; (i) Bricks; (ii) Structural clay tiles; (iii) Concrete units; (iv) Mortars; (v) Grout; (vi) Metal ties; (c) Construction of the walls; (i) Procedure; (ii) Designation of specimens; (iii) Kinds of workmanship; (iv) Construction of sponsored walls built of special units; 3. Testing of the Walls; (a) Apparatus and test method; (b) Observations; (c) Method of rating performance; 4. Data and Discussion; (a) Data; (b) Effect of workmanship on permeability; (i) Brick walls; (ii) Brick-faced walls backed with hollow units; (iii) Cavity walls; (c) Effect of brick-suction on permeability; (d) Effect of water retentivity of the mortars on ease of construction and on permeability; (e) Effect of properties of unit on permeability; (i) Absorptive properties of the bricks; (ii) Cored holes in bricks; (iii) Brick of special shapes; (iv) Structural clay tile or concrete units; and 5. Summary.

**ABSTRACT.** Exterior masonry walls of houses or other buildings may occasionally be penetrated by wind-driven rains, with subsequent damage to the interior finish of such structures. An extensive investigation in the water-permeability of small masonry wall specimens has resulted in the publication of report BMS

7: WATER PERMEABILITY OF MASONRY WALLS when first constructed; report BMS 76: EFFECT OF OUTDOOR EXPOSURE ON THE WATER PERMEABILITY OF MASONRY WALLS; report BMS 55: EFFECTS OF WETTING AND DRYING ON THE PERMEABILITY OF MASONRY WALLS; and report BMS 41: EFFECT OF HEATING AND COOLING ON THE PERMEABILITY OF MASONRY WALLS in the dry condition. The present report measures the water permeability of small masonry wall specimens. Fourteen kinds of workmanship, 39 kinds of units, and 10 kinds of mortars were represented in a group of 140 walls. The permeability of the specimens was low when the vertical joints were filled or partly filled with mortar or grout, when the suction of the bricks was low, and when a mortar having a high water retentivity was used. The effect of water retentivity of the mortars on the permeability of the walls was greatest when the brick-suction was high. Mortar having a low water retentivity stiffened rapidly when placed in contact with dry, highly absorptive bricks, and units having a low suction floated out of alignment when placed in contact with such a mortar. (For the earlier reports in this series, see items (305), (339), (333) and (327) of the present reading list.

(342) **STRUCTURAL, HEAT-TRANSFER, AND WATER-PERMEABILITY PROPERTIES OF "SPEED-BRIK" WALL CONSTRUCTION** SPONSORED BY THE GENERAL SHALE PRODUCTS CORPORATION by Mahlon F. Peck, Vincent B. Phelan, Richard S. Dill, and Perry H. Petersen; Building Materials and Structures Report BMS 86; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 15, 1942.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat-transfer; (c) Water permeability; 4. Structural Properties; (a) Materials; (i) Masonry units; (ii) Mortar; (A) Cement; (B) Lime; (C) Sand; (D) Mix; (iii) Fabrication data; (b) Sponsor's statement; (i) Description of wall specimens; (A) Four-foot specimens; (B) Eight-foot specimens; (c) Compressive load; (d) Transverse load; (e) Concentrated load; (f) Impact load; (g) Backing load; 5. Heat-Transfer Properties; 6. Water-Permeability Properties; (a) Materials; (i) Masonry units; (ii) Mortar; (b) Description of specimens; (c) Test procedure; (d) Test results; and 7. Comments.

**ABSTRACT.** For the program on the investigation of low-cost house construction, specimens representing "Speed-brik" masonry wall construction were submitted by General Shale Products Corporation. These specimens were subjected to structural, heat-transfer, and water-permeability tests. The structural specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to the inside face of the specimens. The deformation under load and the set after the load was removed were measured for each increment of load. Heat-transfer properties of two specimens were determined in a shielded hot-box heat-transfer apparatus. Nine water-permeability specimens were tested under conditions that simulated exposure to a heavy wind-driven rain.

(343) **STRUCTURAL PROPERTIES OF "PRECISION-BUILT, JR." (SECOND CONSTRUCTION) PREFABRICATED WOOD-FRAME WALL CONSTRUCTION** SPONSORED BY THE HOMASOTE CO. by W. Gail Hoback, Herman L. Weiss, and Vincent B. Phelan, with the collaboration of the Forest Products Laboratory; Building Materials and Structures Report BMS 89; published by U. S. Department of Commerce, National

Bureau of Standards, Washington, D. C.—Issued July 17, 1942.—15 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating fiberboard; (c) Sheathing paper; (d) Nails; (e) Glue; 5. Properties of Wall; (a) Sponsor's statement; (i) Four-foot specimens; (ii) Eight-foot specimens; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; and 6. Comments by Sponsor.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Homasote Co., Trenton, N. J., submitted 18 specimens representing a wall construction consisting of a wood frame with "Homasote" insulating fiberboard on the inside face and bevel siding on the outside face. The specimens were subjected to compressive, transverse, concentrated, impact, and racking loads, for each of which three like specimens were tested. The transverse, concentrated, and impact loads were applied to both faces of the specimens. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and tables.

(344) **STRUCTURAL PROPERTIES OF "PHC" PREFABRICATED WOOD-FRAME CONSTRUCTIONS FOR WALLS, FLOORS, AND ROOFS SPONSORED BY THE PHC HOUSING CORPORATION** by Mahlon F. Peck, W. Gail Hoback, and Vincent B. Phelan; Carlisle P. Winslow, Forest Service, Collaborator; Building Materials and Structures Report BMS 90; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 18, 1942.—34 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Materials; (a) Wood; (b) Insulating board; (c) Steel; (d) Paint; (e) Glue; (f) Pins; (g) Bolts; (h) Washers; (i) Screws; (j) Nails; (k) Felt; (l) Bulbber; 5. Properties of First Wall; (a) Sponsor's statement; (i) Four-foot wall specimens; (ii) Eight-foot wall specimens; (iii) Comments; (b) Compressive load; (c) Transverse load; (d) Concentrated load; (e) Impact load; (f) Racking load; 6. Properties of Second Wall; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Racking load; 7. Properties of Floor; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; (d) Impact load; 8. Properties of First Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; 9. Properties of Second Roof; (a) Sponsor's statement; (i) Description; (ii) Comments; (b) Transverse load; (c) Concentrated load; and 10. Additional Comments by Sponsor.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the PHC Housing Corporation submitted 33 specimens representing "PHC" prefabricated wood-frame constructions for walls, floors, and roofs. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The transverse, concentrated loads were applied to both faces of wall specimens. For each of the loads, three like specimens were tested; the concentrated loads were applied to the same specimens as either the transverse or the impact loads. The loads simulated the loads to which the elements of a house are subjected in actual service. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and tables.

(345) **ACCUMULATION OF MOISTURE IN WALLS OF FRAME CONSTRUCTION DURING WINTER EXPOSURE** by Charles G. Weber and Robert C. Reichel; Building Materials and Structures Report BMS 93; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 4, 1942.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Wall Sections Tested; 3. Testing Procedure; 4. Performance of Test Walls; 5. Summary and Conclusions; and 6. References.

**ABSTRACT.** The condensation and accumulation of moisture in outside walls of frame construction were observed during winter weather in Washington, D. C. Seven different constructions were exposed simultaneously as adjacent full-height sections of the north wall of a frame structure. The humidity and temperature of the inside air were controlled to produce an average vapor-pressure drop across the wall of approximately 0.2 pound per square inch. Use of a good vapor barrier on the warm side of the wall prevented condensation. In every instance where no vapor barrier was used on the warm side of the wall, condensation occurred within the wall. The use of a vapor barrier on the cold side of the wall increased the accumulation of moisture. The performance of walls of standard wood construction was not basically different from those containing fiber sheathing boards.

(346) **WATER PERMEABILITY AND WEATHERING RESISTANCE OF STUCCO-FACED, GUNITE-FACED, AND "KNAP CONCRETE UNIT" WALLS** by Cyrus C. Fishburn; Building Materials and Structures Report BMS 94; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 2, 1942.—20 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Wall Specimens; (a) Sponsors; (b) Materials; (i) Masonry backing-units; (ii) "Knap concrete units"; (iii) "Bondex" paint; (iv) Mortar; (v) Stucco; (vi) Gunite; (vii) Metal reinforcement for gunite-faced walls; (c) Construction of the walls; (i) Designation; (ii) Stucco-faced walls; (iii) Gunite-faced walls; (iv) "Knap concrete-unit" walls; 3. Testing of the Walls; (a) Water-permeability test; (i) Apparatus and method; (ii) Observations; (iii) Rating of performance; (b) Outdoor exposure tests of the Walls; (a) Permeability of stucco-faced walls; (i) Effect of temperature and humidity during the curing of stucco facings; (ii) Effect of time interval between application of the scratch and finish coats; (iii) Effect of kind of stucco facing and kind of backing unit; (b) Permeability of gunite-faced and "Knap concrete-unit" walls; (i) Gunite-faced walls; (ii) "Knap concrete-unit" walls; (c) Effects of outdoor exposure on structural soundness; (i) Stucco-faced walls; (ii) Gunite-faced walls; (iii) "Knap concrete-unit" walls; (d) Effects of weathering exposure on permeability; and 5. Summary and Conclusions.

**ABSTRACT.** The water permeability of small stucco- and gunite-faced walls and of walls built of "Knap concrete units" was measured before and after outdoor weathering. Six different thicknesses, 2 thicknesses of gunite facings, and 7 kinds of units were represented in a group of 26 walls. All of the stucco- and gunite-faced walls were highly resistant to water penetration. Periods of outdoor exposure at Washington, D. C., varying from 16 to 49 months, had no important effect on permeability. The resistance to penetration of walls built of "Knap concrete units" was excellent after the walls were painted. For publications on the water permeability of masonry walls, including data obtained from tests on 8 stucco-faced walls, see BMS 41, BMS 55, and BMS 76, which are included in the present reading list as items (327), (333), and (330).

(347) **TESTS OF CEMENT-WATER PAINTS AND OTHER WATER-**

**PROOFINGS FOR UNIT-MASONRY WALLS** by Cyrus C. Fishburn and Douglas E. Parsons; Building Materials and Structures Report BMS 95; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 15, 1943.—37 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Sponsors; 4. Wall Specimens; (a) Masonry materials; (i) Bricks; (ii) Concrete units; (iii) Mortars; (b) Description and construction of the walls; (c) Designation of the walls and waterproofings; 5. Method of Testing; (a) Water-permeability test; (i) Apparatus and test method; (ii) Observations; (iii) Rating of performance; (b) Outdoor exposure; 6. Cement-Water Paints; (a) Materials and consistency; (b) Method of application and curing; (i) Preparation of the walls for painting; (ii) Kinds of brushes; (iii) Application of the paints; (iv) Curing of the coatings; (v) Condition of the cured paint coatings; (c) Some factors affecting the permeability of the cement-water paint coatings; (i) Kind of brush; (ii) Kind of backing and its moisture content; (iii) Paint consistency; (iv) Curing conditions; (v) Kind of paint and of admixtures; (vi) Use of a grout coat; (d) Effect of weathering exposure on permeability; (e) Discussion; 7. Proprietary Waterproofings Applied to the Exposed Faces of the Walls; (a) Pigmented surface coatings; (i) Aquaplex; (ii) Dricot; (iii) Drye; (iv) Maure Brush-Tex and Plaster Special; (v) Tymstone; (vi) Varcraft; (vii) Discussion; (b) Colorless surface coatings; (i) Amprut; (ii) Gremul-W; (iii) Filporize; (iv) Maure liquid waterproofing; (v) Por-fil-ite; (vi) Sur-Ten-B; (vii) Discussion; 8. Larson Pre-Formed Waterproofing Units; (a) Construction of the specimens; (b) Effectiveness and durability; 9. Waterproofing Applied to the Unexposed Faces of the Walls; (a) Bituminous coatings; (i) Asphalt; (ii) Coal tar; (iii) Asphalt roof coating; (iv) Asphalt emulsion; (v) Bituminous plastic cement; (vi) Discussion; (b) Coatings of cementitious or of proprietary materials; (i) Portland-cement and sand brush coating; (ii) Iron-dust (iron powder and sal ammoniac) brush coating; (iii) Portland-cement and iron-dust brush coatings; (iv) Portland-cement, iron-dust, and sand trowel coatings; (v) Mortar parging; (vi) Armor coat; (vii) Dricot; (viii) Discussion; 10. Conclusions; (a) Cement-water paints; (b) Emulsified resin and oil-base paints; (c) Colorless surface waterproofings; (d) Joint treatments; (e) Membrane waterproofing; and (f) Waterproofings on the inside (unexposed) faces of the walls.

**ABSTRACT.** One hundred thirty-one small, highly permeable masonry wall specimens built of concrete blocks or of bricks were treated with cement-water paints or with other waterproofings. The effectiveness of the treatments was measured by comparing the permeability of the walls, before and after treatment, when they were subjected to conditions simulating wind-driven rain. The durability of some treatments was observed by again testing the specimens after they had been weathered outdoors. The cement-water paints were effective waterproofings and could be applied to the best advantage on the walls of concrete blocks with stiff, rather than soft, brushes. The admixture of fine sand to the paint for the first coat applied to the coarse-textured concrete block increased the effectiveness and durability of the paints. Thick paint films resulting from the application of excessive amounts of paint were effective when first applied, but they were much less durable than thinner coatings. The permeability of the paint films of average thickness was lower after weathering than before. The colorless waterproofings were generally ineffective. Only one of the colorless waterproofings gave satisfactory results when first applied, but it was not durable and was much more permeable than the best cement-water paint treatments. The data confirm results previously obtained, which indicate that the only effective and durable method of waterproofing brick walls without changing their appearance was by repointing or grouting of the face joints. A series of built-in waterproof membranes was an effective waterproofing for the brick walls if the leakage through the facing was drained out of

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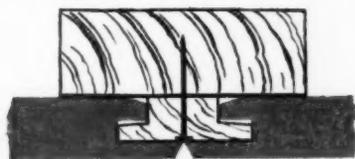
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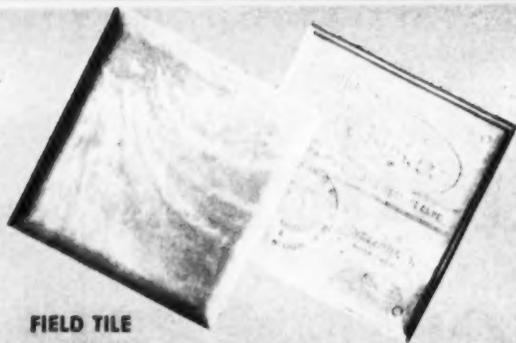
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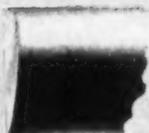
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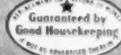
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the wall through weep holes at the bottom. The bituminous coatings applied to the inside faces of the walls were ineffective as waterproofings.

- (348) **EXPERIMENTAL DRY-WALL CONSTRUCTION WITH FIBER INSULATING BOARD** by Charles G. Weber and Robert C. Reichel; Building Materials and Structures Report BMS 97; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 7, 1943.—8 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Construction and Testing of Experimental Walls; 3. Performance of Wall Construction; 4. Treatments of Joints; 5. Decorative Treatments; and 6. Summary and Conclusions.

**ABSTRACT.** The use of fiber insulating boards for the interior surfacing of walls and ceilings of houses has heretofore been limited with respect to choice of design or finish of the walls. The relative high expansivity of the material with variations in the humidity of the surrounding air has made paneling necessary because molding or batten strips were required to conceal unsightly joints. It was found possible to overcome the difficulty and make paneling unnecessary. This was done by eliminating the usual nailing and substituting the use of invisible, flexible fasteners that permit the entire surface of a wall or ceiling to expand and contract as a unit. Several methods of fastening the boards to obtain this result were developed. Use of them permitted the successful application of all of the decorative treatments normally applied to a plaster wall, without restriction as to surface design.

- (349) **STRUCTURAL AND HEAT-TRANSFER PROPERTIES OF "MULTIPLE BOX-GIRDER" PLYWOOD PANELS FOR WALLS, FLOORS, AND ROOFS SPONSORED BY LOREN H. WITTNER** by Herbert L. Whitte-more, Vincent B. Phelan, and Richard S. Dill, with the collaboration of R. F. Luxford, Forest Products Laboratory; Building Materials and Structures Report BMS 99; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 11, 1943.—25 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; (a) Structural; (b) Heat transfer; 4. Materials; (a) Wood; (i) Framing; (ii) Plywood, moisture-resistant type; (iii) Plywood, exterior type; (b) Fastenings; (i) Nails; (ii) Corrugated fasteners; (c) Glue; 5. Structural Properties; (a) Properties of wall; (i) Sponsor's statement; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Racking load; (b) Properties of floor; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (c) Properties of roof; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (d) Properties of second roof; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; 6. Heat-Transfer Properties; (a) Walls; (i) Description of specimens; (ii) Test results; and 7. Additional Comments by Sponsor.

**ABSTRACT.** To determine structural and heat-transfer properties, tests were conducted at the request of the War Department on wall, floor, and roof specimens of "Multiple Box-Girder Plywood Panels." The specimens were constructed by gluing and nailing one sheet of plywood between two frames and facing the outer surfaces with other sheets of plywood. The longitudinal and transverse members of the frames with the sheets of plywood formed closed cells which provided heat insulation. The wall specimens were subjected to compressive transverse concentrated, impact, and racking loads;

the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The loads simulated the loads to which the elements are subjected in actual service. The deformations under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables. The heat-transfer properties of three wall specimens were determined in a shielded hot-box heat-transfer apparatus.

- (350) **STRENGTH AND RESISTANCE TO CORROSION OF TIES FOR CAVITY WALLS** by Cyrus C. Fishburn; Building Materials and Structures Report BMS 101; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1943.—9 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Specimens; (a) Materials; (i) Ties; (ii) Brick; (iii) Mortars; (iv) Cements and coal-tar-paint coatings; (b) Construction of specimens; (i) Compressive-strength specimens; (ii) Tensile-strength specimens; (iii) Indoor-weathering specimens; (iv) Outdoor-weathering specimens; 3. Method of Testing; (a) Tests for Structural Strength; (i) Compressive-strength test; (ii) Tensile-strength test; (b) Weathering tests; (i) Indoor-weathering exposure; (ii) Outdoor-weathering exposure; 4. Results of the Strength Tests; (a) Compressive strength; (i) Effect of shape and diameter of steel ties; (ii) Strength of specimens containing Copperweld, corrugated galvanized steel, and cement-asbestos ties; (b) Tensile strength; (c) Discussion of strength data; 5. Results of Weathering Tests; (a) Indoor exposure; (b) Outdoor exposure; 6. Summary and Conclusions; (a) Compressive strength; (b) Tensile strength; and (c) Corrosion of the ties.

**ABSTRACT.** The resistance to axial loads of ties for cavity walls was determined by testing steel and cement-asbestos ties when they were embedded at the ends in brick masonry. Fourteen different ties and three mortars were represented in a group of about 110 specimens. The ties, with one exception, were spaced one to every 3 ft. of wall area, provided connections of ample strength to resist the usual lateral forces to which cavity walls are subjected. The corrosion resistance of some of the steel ties was measured by exposing them when unprotected and when coated to accelerated and to outdoor weathering.

- (351) **STRUCTURAL PROPERTIES OF PREFABRICATED PLYWOOD LIGHTWEIGHT CONSTRUCTIONS FOR WALLS, PARTITIONS, FLOORS, AND ROOFS SPONSORED BY THE DOUGLAS FIR PLYWOOD ASSOCIATION** by Arnold Wesler, Sanford B. Newman and Vincent B. Phelan, with the collaboration of R. F. Luxford, Forest Products Laboratory, Forest Service, U. S. Department of Agriculture; Building Materials and Structures Report BMS 104; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 1, 1945.—48 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Part I: Lightweight Construction; (a) Sponsor and Product; (b) Specimens and tests; (c) Materials; (i) Wood; (A) Framing; (B) Plywood, moisture-resistant type; (C) Plywood, exterior type; (ii) Nails; (iii) Glue; (d) Properties of Wall; (i) Sponsor's statement; (A) Four-foot wall specimens; (B) Eight-foot wall specimens; (C) Comments; (ii) Compressive load; (iii) Transverse load; (iv) Concentrated load; (v) Impact load; (vi) Racking load; (e) Properties of partition (with sub-headings identical with those under (d)); (f) Properties of first floor; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (iv) Impact load; (c) Properties of second floor (with sub-headings identical with those under (f)); (b) Properties of third floor; (i) Sponsor's statement; (A) Description of

specimens; (B) Comments; (ii) Transverse load; (i) Properties of first roof; (i) Sponsor's statement; (A) Description of specimens; (ii) Transverse load; (iii) Concentrated load; (j) Properties of second roof; (i) Sponsor's statement; (A) Description of specimens; (B) Comments; (ii) Transverse load; (k) Additional comments by sponsor; 3. Part II: Commercial Type Construction; (a) Sponsor and product; (b) Specimens and tests; (c) Materials; (i) Wood; (A) Framing; (B) Plywood; (C) Furring; (D) Bevel siding; (ii) Sheathing paper; (iii) Nails; (iv) Staples; (v) Glue; (vi) Paint; (d) Properties of first wall; (i) Racking load; (f) Properties of third wall; (i) Sponsor's statement; (A) Description of specimens; (B) Comments; (ii) Racking load; (g) Additional comments by sponsor.

**ABSTRACT.** For the program on the determination of structural properties of low-cost house construction, the Douglas Fir Plywood Association submitted 75 specimens representing prefabricated plywood building panels of both lightweight stress-skin and commercial design. Wall, partition, floor, and roof specimens were of lightweight stress-skin design. Specimens of commercial-type panels (2 by 4-in. studs) were for wall construction only, and furnished a basis of comparison of strength and weight with the light weight constructions. The wall specimens were subjected to compressive, transverse, concentrated, impact, and racking loads; and the wall specimens of commercial type included three different constructions for determining resistance to racking. The partition specimens were subjected to compressive, transverse, impact, and racking loads; the floor specimens to transverse, concentrated, and impact loads; and the roof specimens to transverse and concentrated loads. The floor and roof specimens included two different constructions for determining resistance to transverse loads. Transverse, concentrated, and impact loads were applied to both faces of wall specimens. The loads simulated the loads to which the elements are subjected in actual service. The deflection under load and the sets after the load was removed were measured for uniform increments of load. The results are presented in graphs and tables.

- (352) **FIRE RESISTANCE OF STRUCTURAL CLAY TILE PARTITIONS** by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 113; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 29, 1948.—19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Scope; 2. Materials and Tests; (a) Tile; (b) Mortar and Plaster; 3. Construction of Partitions; (a) Size; (b) Restraint; (c) Type of Construction; (d) Workmanship; (e) Mortar; (f) Plaster; (g) Storing and aging; 4. Equipment; (a) Restraining frames; (b) Partition-testing furnace; (c) Temperature-testing apparatus; (d) Deflection-measuring equipment; (e) Hose-stream equipment; 5. Method of Testing; 6. Results of Tests; (a) Log of tests; 7. Discussion of Results; (a) General effects of fire exposure; (b) Effect of clay used in manufacture of tiles; (c) Effect of method of laying; (d) Effect of plaster; (e) Effect of design of tiles; (f) Resistance to the hose stream; and 8. Summary.

**ABSTRACT.** This report indicated the fire resistance that can be expected of structural clay tiles designed for use in partitions, whereas National Bureau of Standards Research Paper 37: FIRE RESISTANCE OF HOLLOW LOAD-BEARING WALL TILE gave the results of fire tests of structural clay tile designed for loadbearing walls. The present report gives the results of fire-endurance or hose-stream tests of 20 structural clay tile partitions tested at the National Bureau of Standards. The partitions were 3, 4 and 6 in. thick, exclusive of the

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plaster. Some of the partitions were built of tile laid on end; some, with the tile laid on side; and some, with the tile laid alternately on side and on end. The fire-endurance and the hose-stream tests in this series were made on the same partitions. The hose-stream tests indicated that tile partitions can be considered as meeting the hose-stream requirements applicable to their respective fire-resistance ratings. The impetus given to fire-safe construction as the consequence of disastrous fires in buildings of residential occupancy creates a particular demand for the information contained in this report.

(353) FIRE RESISTANCE OF WALLS OF LIGHTWEIGHT -AGGREGATE CONCRETE MASONRY UNITS by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 117; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1, 1950.—23 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

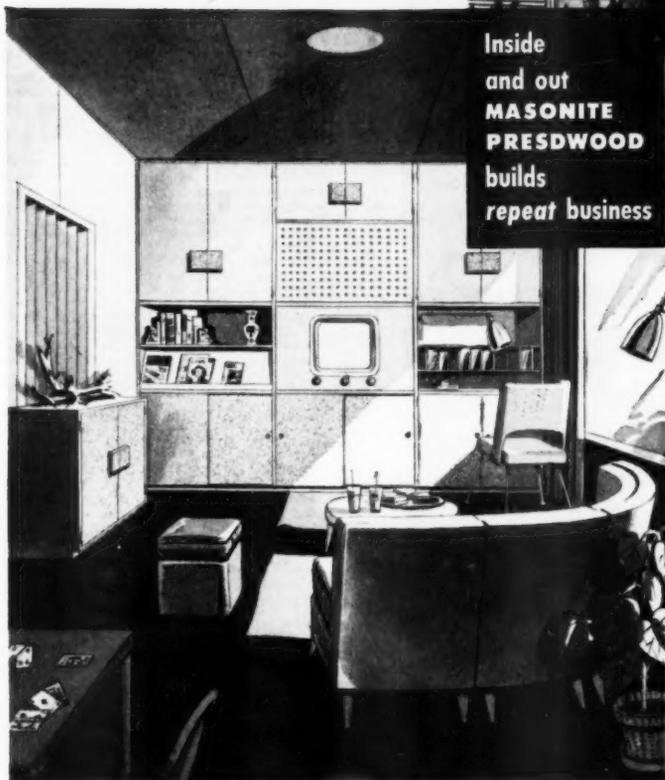
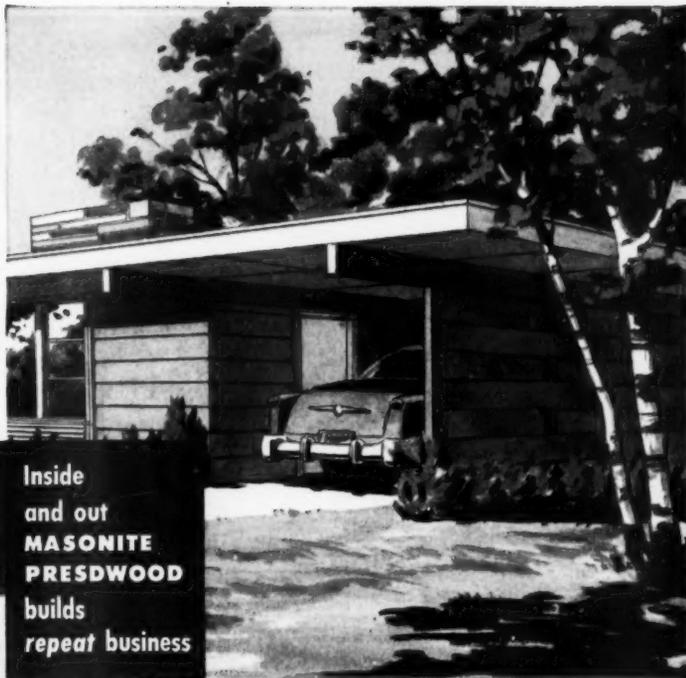
Includes a consideration of: 1. Introduction and Scope; 2. Materials; (a) Concrete masonry units; (i) Cinder concrete units; (ii) Pumice concrete units; (iii) Expanded-slag concrete units; (iv) Expanded-shale concrete units; (b) Mortar and plaster; (c) Tests of Materials; 3. Test Walls; (a) Construction; (b) Size; (c) Restraint and loading; (d) Workmanship; (e) Wall finish; (f) Storing and aging; 4. Method of Testing and Equipment; (a) Wall-testing furnace; (b) Temperatures; (c) Deflections; (d) Hose stream; 5. Results; (a) Log of tests; 6. Discussion of Results; (a) Effect of wall thickness; (b) Effect of type of aggregate; (c) Effect of moisture content; (d) Effect of combustible framed-in members; (e) Effect of loading; (f) Resistance to the hose stream; and 7. Summary.

ABSTRACT. The results of fire-endurance and hose-stream tests of 16 walls of lightweight aggregate concrete masonry units are given. The aggregates used in the manufacture of the units were cinders, expanded shale, pumice, or expanded slag. The constructions ranged from 3-in. nonload-bearing partitions to 10-in. load-bearing walls with no framed-in members and included brick-faced exterior bearing walls. The fire-resistant values indicated by the tests varied with the thickness of the wall, the moisture content at the time of the test, and the kind of aggregate used in the units and ranged from 1 hr 9 min for a 4-in. unplastered partition to 7 hr 3 min for an 8-in. bearing wall faced with brick and backed with 4-in. lightweight concrete units. Hose-stream tests conducted at the end of the fire-endurance tests indicated that walls of lightweight aggregate concrete masonry units meet the requirements of this test for their respective fire-resistance values. As concrete masonry units made with lightweight aggregates are used extensively in both residential and commercial buildings, the information contained in this report should be of interest to building regulatory bodies in setting up building code requirements pertaining to exits, shaft enclosures, and fire division walls.

(354) FIRE RESISTANCE OF WALLS OF GRAVEL-AGGREGATE CONCRETE MASONRY UNITS by Harry D. Foster, Earl R. Pinkston, and S. H. Ingberg; Building Materials and Structures Report BMS 120; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 30, 1951.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: I. Introduction and Scope; 2. Materials; (a) Concrete masonry units; (i) Aggregates; (ii) Proportions; (iii) Molding and curing; (b) Mortar and plaster; (c) Tests; 3. Test Walls; (a) Construction; (b) Size; (c) Restraint and loading; (d) Workmanship; (e) Finish; (f) Storing and aging; 4. Method of Testing and Equipment; (a) Wall-testing furnace; (b) Tempera-

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ture measurements; (c) Deflection measurements; (d) Hose-stream test; 5. Results; (a) Log of tests; 6. Discussion of Results; (a) Effect of type of aggregate; (b) Effect of loading and restraint on type of failure; (c) Effect of strength of unit; (d) Effect of plaster; (e) Performance of cavity-type construction; (f) Effect of combustible framed-in members; (g) Resistance to hose-stream test; and 7. Summary.

**ABSTRACT.** Fire-endurance test results for 12 walls of gravel-aggregate concrete masonry units are given and hose-stream test results for three of the walls. The concrete units used in five of the walls were made with calcareous aggregates representing the group of natural aggregates less susceptible to damage by fire. The units used in the other seven walls were made with siliceous aggregates representing the group more susceptible to fire damage. The constructions included 4-in. nonload-bearing partitions and 8- to 12-in. load-bearing walls. The fire resistance of the 4-in. unplastered partition of units made with calcareous aggregates and of the 4- and 8-in. walls of units made with siliceous aggregates was limited to 1 hr or less either by collapse or load failure. The values for the 4-in. plastered partition and the 8-in. load-bearing walls made with calcareous aggregates ranged from 1 hr 51 min for the partition to 3 hr 57 min for one of the 8-in. load-bearing walls, and were determined by the temperature rise on the unexposed surface. The values for the 12-in. single-unit plastered wall and the 12-in. two-unit wall of siliceous aggregates were 5 hr or more and were limited by the temperature rise on the unexposed surface. The hose-stream tests conducted at the end of the fire-endurance tests indicated that masonry walls built of units made with calcareous aggregates would meet the requirements of that test. Walls of units made with siliceous aggregates that were 8 in. or less in thickness in most cases had fire-endurance values of less than 1 hr and did not require the hose-stream test. Walls of units thicker than 8 in. made with siliceous aggregates that withstood long fire exposure may be expected to meet the hose-stream test requirements.

**NOTE:** This is the second report issued by the National Bureau of Standards dealing with the fire resistance of walls of concrete masonry units. The first report, BMS-117 (item 353 of this reading list) is entitled FIRE RESISTANCE OF WALLS OF LIGHTWEIGHT AGGREGATE CONCRETE MASONRY UNITS, that is, of units made with cinder, pumice, expanded slag, or expanded shale aggregates. The information given in the present reprint should be helpful to those using locally-produced gravel-aggregate concrete masonry units in residential and commercial buildings.

(355) FIRE TESTS OF WOOD-FRAMED WALLS AND PARTITIONS WITH ASBESTOS-CEMENT FACINGS by Nolan D. Mitchell; Building Materials and Structures Report BMS 123; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 10, 1951.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

**ABSTRACT.** Three walls and four partitions with asbestos-cement facings on wood frames were subjected to fire-endurance tests and one wall and three partitions to fire and hose-stream tests. The partitions had asbestos-cement sheet facings on both sides over different internal constructions. The edges of the studs of some of the partitions were lined with asbestos paper or gypsum-board strips. One partition had no insulation, four had mineral-wool batt fill between the studs; two had gypsum-board sheathing underlying the asbestos-cement sheet facings. The walls had matched diagonal sheathing, asphalt-saturated asbestos felt, and asbestos-cement shingles as the exterior facings. The interior facings were of asbestos-cement sheets or asbestos-cement insulated sheathing. Three walls had mineral-wool batt insulation between the studs. Fire-endurance limits for the partitions ranged from 9 to 90 minutes.

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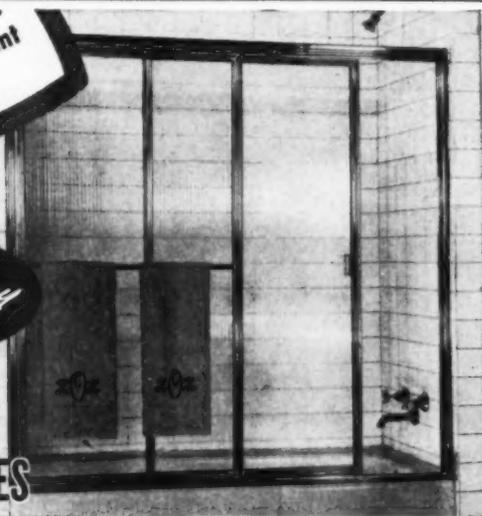
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Failure by a limiting rise of temperature was not a determinant in any of the tests of the walls. The fire exposures ranged from 38 to 85 minutes. Limits by failure under load for the walls ranged from 32 to 79 minutes. Failure from impact of the hose stream occurred in one of three tests of the partitions and in the single hose-stream test of a wall. Walls and partitions that retard the spread of fire contribute to the safety of nonfire-resistive buildings. For this reason the performance of wood-framed walls and partitions with facings of asbestos-cement shingles or sheets, when subjected to fire tests under standard procedures, were determined and presented in this report. The information is intended to aid building authorities and regulatory agencies in evaluating the fire-resistance characteristics of constructions of these types and give the prospective builder a basis for the selection of constructions that will meet given requirements with respect to fire resistance.

(356) **STONE EXPOSURE TEST WALL** by Daniel W. Kessler and R. E. Anderson; Building Materials and Structures Report BMS 125; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 20, 1951.—41 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction Features; 3. Orientation and Exposure Conditions; 4. Arrangement of Stones in Wall; 5. Problems under Study; 6. Methods of Study; a. Weathering Effects; b. Color Changes; c. Dimensional Changes; and d. Warpage; 7. Maintenance of Records; 8. Catalog of Stones in Wall (with Explanation of Tables).

**ABSTRACT.** A test wall was built at the National Bureau of Standards during the months of September, October and November 1948 in a plot set aside on the Bureau grounds for weathering tests of structural materials. The wall contains 2,059 samples of stone: in the front, or south face, and 293 in the back and ends; of these, 2,032 were domestic stones supplied by 47 States; and 320 were foreign samples supplied by 16 countries. Stones in the east half of the south face are set in lime mortar with the exception of those in the base. All other stones in the wall are set in a portland cement mortar with a small addition of whitening. The core of the wall is of concrete, reinforced with steel bars. The wall contains 30 distinct types of stones, some of which are not commonly used for building purposes. There are many varieties of the usual types, such as marble, limestone, sandstone, and granite. The variations in composition or physical properties, such as strength, porosity, and density, will be of value in studying the relation between such properties and weather resistance. The main problem is to determine the nature and relative severity of the various agents that cause deterioration and how they affect different stones. Certain structural features of the wall, such as length changes, warpage, back waterproofing, and grade waterproofing are being studied in relation to weathering and discoloration on the stonework. Each block is identified by a number determined by its position in the wall. This eliminates the necessity of frequent relabeling. The various samples are described under the wall numbers in tables that give specific information on location of stone deposits, classification, color, texture, and geological age, when known. The exposure test wall project is a long-time, cooperative investigation between the National Bureau of Standards and Committee C-18 on National Building Stones of the American Society for Testing Materials.

(357) **FIRE TESTS OF GUNITE SLABS AND PARTITIONS** by Nolan D. Mitchell; Building Materials and Structures Report BMS 131; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 12, 1952.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

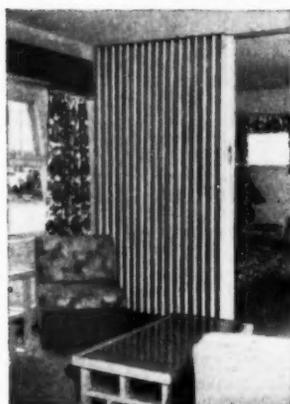
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### New "Spacemaster" folding doors

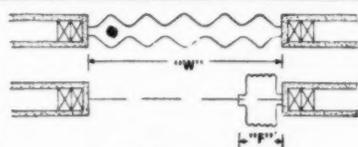
Latest innovations in design and production techniques enable the makers of "Modernfold" doors to offer "Spacemaster"—a quality folding door at a price that actually makes per opening cost less than that of conventional doors. Vinyl coated fabric cover, steel frame, patented box construction hinges. In "Decorator Gray," a neutral color that blends perfectly with any color scheme. Available through lumber and building supply dealers. Ask your "Modernfold" distributor where you can get "Spacemaster" folding doors. Or clip coupon.

### SPACEMASTER folding doors



Sizes:	Width	Height	Stack
	2' 6"	x 6' 8½" or 6' 6"	4¾"
	3' 0"	x 6' 8½" or 6' 6"	5"
	4' 0"	x 6' 8½" or 6' 6"	6"

4' 0" size in "rolling post" only.  
Doors may be used as pairs.



Key to Dimensions in Table Below  
"W" "H" "S"

#### In Sizes to Fit Every Requirement

Name	Width "W"	Height "H"	Stack "S"
<b>STOCK DOORS—Available from distributor's stock</b>			
Leader.....	2'-6"	6'-8½"	6"
Master.....	3'-0"	6'-8½"	6¾"
Harding.....	3'-7"	6'-8½"	7½"
Wilson.....	2'-6"	6'-6"	6"
Burton.....	3'-0"	6'-6"	6¾"
Morris.....	3'-7"	6'-6"	7½"
<b>STANDARD DOORS</b>			
Duke.....	2'-6"	6'-8½"	6"
Regeni.....	3'-0"	6'-8½"	6¾"
Norfolk.....	3'-7"	6'-8½"	7½"
Colten.....	4'-2"	6'-8½"	8¾"
Morten.....	4'-9"	6'-8½"	9"
Shelton.....	5'-4"	6'-8½"	9¾"
Dixon.....	5'-11"	6'-8½"	10½"
Alden.....	6'-6"	6'-8½"	11¼"
Clinton.....	7'-1"	6'-8½"	12"
Winton.....	7'-8"	6'-8½"	12¾"
Morgan.....	8'-3"	6'-8½"	13½"
Bradmoor.....	8'-10"	6'-8½"	14½"
Leads.....	3'-0"	8'-0"	6¾"
LaGrange.....	3'-7"	8'-0"	7½"
Logan.....	4'-2"	8'-0"	8¼"
Leland.....	4'-9"	8'-0"	9"
Longfellow.....	5'-4"	8'-0"	9¾"
Livingston.....	5'-11"	8'-0"	10½"
Lacomb.....	6'-6"	8'-0"	11¼"
Lincoln.....	7'-1"	8'-0"	12"
Lansing.....	7'-8"	8'-0"	12¾"
Lexington.....	8'-3"	8'-0"	13½"
Liverpool.....	8'-10"	8'-0"	14½"
Lorain.....	9'-5"	8'-0"	15"
Lindell.....	10'-0"	8'-0"	15¾"
Lancaster.....	11'-2"	8'-0"	17¼"

Any two doors listed above may be combined as a pair. Custom-built doors available up to 20 ft. high, 60 ft. long. Can be furnished for curved installations, and with mechanical operators.

### TIME-SAVING, LABOR-SAVING INSTALLATION



**Step 1.** Slide head track onto trolleys, raise door to standing position, fasten it in place.



**Step 2.** Screw in jamb clips, attach jamb post to them. No planing or fitting necessary.



**Step 3.** Job is done! No hardware to install. No painting or finishing required.

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- Please send me full details on "Spacemaster" doors

Name.....

Address.....

City.....County.....State.....

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction of Slabs and Partitions; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

**ABSTRACT.** Eight slabs and four partitions made with granite concrete on wire-fabric reinforcement were subjected to fire-endurance tests at the National Bureau of Standards. The slabs were made with aggregates composed of sand and wood sawdust, the sawdust ranging from 0 to 50 percent by volume of the aggregate. The aggregate for two partitions was sand, a third had a minor amount of asbestos added, and that of the fourth consisted of equal volumes of sand and sawdust. Fire-endurance limits for the slabs increased almost linearly with increased percentages of sawdust incorporated into the mix. Partitions made with sand aggregate only in the concrete or with the addition of a small amount of asbestos fiber to the concrete showed early failure by spalling and holing through. The explosive violence of the disruptions suggested the presence of entrapped water in the dense concrete. A partition made with a concrete having equal volumes of sawdust and sand as aggregates did not spall and failed by a limiting 325 deg F rise of temperature at a single point on the unexposed side after 70 min of fire exposure, whereas the partitions having asbestos and sand or sand only as the aggregate reached fire-endurance limits through explosive spalling in 16 to 24 min. Subject to the fire-endurance test, the partition with sawdust successfully withstood the application of the hose-stream test. The effect of the sawdust is to lower the thermal conductivity of the concrete and increase its porosity, thus making easier the escape of moisture in the form of vapor. These tests were undertaken because the use of noncombustible constructions for restricting the spread of fire makes necessary a knowledge of the fire-resistive properties of the materials used in them. In addition to reporting the fire-endurance limits of granite of conventional cement and sand mix, a means of improving the fire resistance of this type of concrete by modifying the aggregate is presented. Such modifications would probably be effective in other types of concrete as well.

**(358) PROPERTIES OF CAVITY WALLS** by Daniel S. Goalwin; Building Materials and Structures Report BMS 136; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1953.—15 pages; price 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Cavity-Wall Design; 3. Materials; 4. Construction of Walls; (a) Workmanship; (b) Construction details; 5. Structural Properties; (a) Compressive load; (b) Transverse load; (c) Concentrated load; (d) Impact load; (e) Racking load; 6. Water Permeability; (a) Method of testing; (b) Test results; 7. Heat Transfer; (a) Test equipment and procedure; (b) Test results; 8. Fire Resistance; (a) Test specimens; (b) Test results; 9. Discussion and Summary; and 10. References.

**ABSTRACT.** A compilation is given of data on the performance characteristics of cavity walls, including previously published and some hitherto unpublished material. Structural tests were conducted on cavity walls of brick, concrete block, and structural clay tile. Other tests were made on the properties of wall ties, rain penetrability, thermal transmittance, and fire resistance. Under certain conditions of loading, compressive strength, resistance to concentrated load, racking load, and impact strength were found to be roughly equivalent to those of conventional walls using the same quantity and quality of material. With respect to resistance to transverse load, the cavity walls were somewhat inferior. When properly flashed and with suitable weep holes, the cavity walls had satisfactory resistance to rain penetration. Their thermal transmittance was about 25 percent lower than for similar solid walls. Their resistance to the effect of fire was satisfactory provided certain limiting loading conditions were met. (A cavity wall is a form of masonry wall construction consisting of two parallel wythes, or leaves, of masonry separated by a continuous air space or cavity, usually about 2 in. wide.)



**(401) STRUCTURAL PROPERTIES OF ONE OF THE "KEYSTONE BEAM STEEL FLOOR" CONSTRUCTIONS SPONSORED BY THE H. H. ROBERTSON COMPANY** by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 10; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 29, 1938.—8 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Floor Properties; (a) Sponsor's Statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 5. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the H. H. Robertson Co. submitted six specimens representing one of their cellular sheet-steel floor constructions. The specimens were fabricated with "FKX 18-18" panels covered by a concrete fill and a "Hubblelite" composition finish floor. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

**(402) STRUCTURAL PROPERTIES OF "WHEELING LONG-SPAN STEEL FLOOR" CONSTRUCTION SPONSORED BY THE WHEELING CORRUGATING COMPANY** by Herbert L. Whittemore, Ambrose H. Stang, and Vincent B. Phelan; Building Materials and Structures Report BMS 15; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 21, 1939.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of the Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; and 5. Selected references.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Wheeling Corrugating Co. submitted six specimens representing their "Wheeling Long-Span Steel Floor" construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

**(411) STRUCTURAL PROPERTIES OF A "TILECRETE" FLOOR CONSTRUCTION SPONSORED**

**BY TILECRETE FLOORS, INC.,** by Herbert L. Whittemore, Ambrose H. Stang, and Cyrus C. Fishburn; Building Materials and Structures Report BMS 16; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 24, 1939.—6 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description; (iii) Comments; (b) Transverse load; (c) Impact load; and 5. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, Tilecrete Floors, Inc., submitted six specimens representing their "Tilecrete" floor construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of these loads three like specimens were tested, the concentrated-load tests being made on undamaged portions of the specimens used for the impact tests. The deformation under load and the set after the load was removed were measured for uniform increments of load, except for concentrated loads, for which the set only was determined. The strength under transverse load was also determined. The results are presented graphically and in a table.

**(412) STRUCTURAL PROPERTIES OF "TILECRETE TYPE A" FLOOR CONSTRUCTION SPONSORED BY THE TILECRETE CO.** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 51; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 4, 1940.—11 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Comments; (b) Transverse load; (c) Impact load; and (d) Concentrated load.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Tilecrete Co. submitted six specimens representing its "Tilecrete Type A" floor construction. The specimens were subjected to transverse, impact, and concentrated loads. For each of the loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for uniform increments of load. The strength under transverse load was also determined. The results are presented in graphs and in a table.

**(413) STRUCTURAL PROPERTIES OF A PRECAST JOIST CONCRETE FLOOR CONSTRUCTION SPONSORED BY THE PORTLAND CEMENT ASSOCIATION** by Herbert L. Whittemore, Ambrose H. Stang, and Douglas E. Parsons; Building Materials and Structures Report BMS 62; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 31, 1940; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sponsor and Product; 3. Specimens and Tests; 4. Properties of Floor; (a) Sponsor's statement; (i) Materials; (ii) Description of specimens; (iii) Comments; (b) Transverse load; (c) Impact load; (d) Concentrated load; 5. Additional Comments by Sponsor; and 6. Selected References.

**ABSTRACT.** For the program on the determination of the structural properties of low-cost house constructions, the Portland Cement Association, Chicago, Ill., submitted six specimens representing a floor construction, which consisted of precast concrete joists and bridging and a reinforced-concrete floor slab. The specimens were subjected to transverse, impact, and concentrated loads. All loads were applied to the upper faces of the specimens. For each of these loads three like specimens were tested. The deformation under load and the set after the load was removed were measured for each increment of load. The results are presented in graphs and in a table.

- (414) **FIRE RESISTANCE OF CONCRETE FLOORS** by Daniel S. Goalwin; Building Materials and Structures Report BMS 134; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 26, 1952.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Methods; 3. Test Results; 4. Discussion; (a) Type of aggregate; (b) Effect of restraining forces; (c) Moisture content; (d) Soffit protection; (e) Joists; (f) Effect of slab thickness and density; (g) General; and 5. References. **ABSTRACT.** The results of eleven exploratory and four full-scale fire-endurance tests on reinforced concrete floors are given. All the slabs were monolithic and were made with gravel aggregates; six consisted of slabs cast to engage the tops of precast lightweight concrete joists. The effects of moisture content, aggregate type, and soffit protection are discussed. A general equation for the relation between slab thickness and fire resistance for different aggregates is proposed. The information is intended to aid building authorities and regulatory groups in evaluating the fire-resistance characteristics of concrete floor constructions and to give designers and builders a basis for the selection of constructions that will meet given requirements with respect to fire resistance.

- (421) **PROPERTIES OF EXPERIMENTAL WOOD-BASE HOUSE FLOORING MATERIALS** (Including a Tentative Test Procedure for Flooring)—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis, and compilation of the result here reported: W. E. Bonser and R. F. Luxford (engineers), and F. A. Streng (technical writer). The work was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with Mr. Luxford's assistance. The project was sponsored by the Housing and Home Finance Agency, Division of Standardized Building Codes and Material, of which Leonard C. Haeger was the Director; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C., in November 1948, "Technical Paper No. 11."—18 pages.

Includes a consideration of: 1. Summary; 2. Materials Tested; 3. Methods of Test; (a) Accelerated aging; (b) Water absorption and linear expansion; (c) Standard hardness test; (d) Drop test; (e) Traffic test; (f) Heavy rolling load; (g) Indentation test; (h) Abrasion; (i) Surface wetting; (j) Shrinkage test; (k) Water permeability; (l) Turpentine permeability; 4. Results of Tests. **ABSTRACT.** A report covering procedures and results of tests made of the mechanical and physical properties of several types of flooring materials to provide comparative information on resistance to various loads, surface wear, moisture, and aging characteristics. Particular attention is paid to the development of testing methods applicable to the evaluation of new flooring materials.

## (c) Floor Coverings

- (441) **PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART I** by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 34; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 15, 1940.—14 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Test Installations; 5. Results; 6. Comments; and 7. Selected References.

**ABSTRACT.** A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on 40 different test installations involving 12 floor coverings and 11 adhesives. The floor coverings tested included several kinds of linoleum, felt-base floor coverings having various wearing surfaces, pressed fiberboard, and three strip-wood floors. The bonding agents used included lignin pastes, various resinous cements, casein-latex cement, asphaltic cements, and nails. Installations on both a concrete subfloor and wood subfloor were tested. Descriptions of the testing equipment and test installations are given. Results showing the relative magnitude of the depressions in the floor coverings caused by the testing equipment are summarized and presented in tables. The appearance of the various installations after 48,000 cycles of the testing equipment is discussed and representative photographs are shown.

- (442) **PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART 2** by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 43; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 13, 1940.—20 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Installations; 5. Results; 6. Comments; and 7. Selected References.

**ABSTRACT.** This is a supplement to BMS Report 34; PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING PART I, by the same authors, for which see item (441) of this reading list. In this second series, 40 test installations were subjected to a performance test in the floor-testing chamber of the National Bureau of Standards. Included in the test were battleship linoleum, rubber in sheet and tile form, felt-base floor coverings having various wearing surfaces, three monolithic floors, and a number of asphalt tiles. The bonding agents used included lignin pastes, resinous cements, latex adhesives, rubber cements, cut-back asphalt, and asphalt emulsions. Installations were made on both concrete and wood subfloors. Descriptions of the testing equipment and test installations are given. Results showing the relative depth of the depressions in the floor coverings during the test are presented in tables. Brief summaries showing the performance of the test panels are given, and the appearance of the different floor coverings after 48,000 cycles of the testing equipment is shown by representative photographs.

- (443) **PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART 3** by Percy A. Sigler and Elmer A. Koerner; Building Materials and

Structures Report BMS 68; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 31, 1941.—23 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-Testing Chamber and Equipment; 3. Test Conditions and Procedure; 4. Description of Test Installations; 5. Results; 6. Summary; 7. Comments and Conclusions; and 8. Selected References. **ABSTRACT.** A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on a third series of 40 test installations. Included in the test were linoleums in sheet and tile form, cork-composition tile, fiber-board tiles, rubber tile, asphalt tiles, fiber-board tiles, felt-base floor coverings having various wearing surfaces, three monolithic floors, and a number of wood floors. The bonding agents used included lignin pastes, sumar-resin cement, alumina cement-latex paste, rubber cements, various asphaltic adhesives, and nails. Installations were made on concrete, strip-wood, and plywood subfloors. Installations on strip-wood subfloors were made with underlays of dry and asphalt-saturated lining felts. Descriptions of the testing equipment and test installations are given. Results showing the relative depth of the depressions in the floor coverings during the test are presented in tables. Brief summaries of the manner in which the various test installations performed are given, and photographs of the test panels after 48,000 cycles of the testing equipment are shown.

- (444) **PERFORMANCE TEST OF FLOOR COVERINGS FOR USE IN LOW-COST HOUSING: PART 4** by Percy A. Sigler and Elmer A. Koerner; Building Materials and Structures Report BMS 80; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 2, 1942.—21 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Floor-testing Chamber, Equipment, and Procedure; 3. Description of Test Installations; 4. Results; 5. Summary and Discussion of Results; (a) Cork tiles; (b) Rubber tile; (c) Asphalt tile; (d) Linoleums; (e) Felt-backed floor coverings with wearing surfaces; (i) Marbleized linoleum composition; (ii) Cellulose nitrate composition; (iii) Asphalt composition; (iv) Enamel; (v) Resin-treated cotton-linters sheet; (f) Cotton docks; (g) Maple and pecan unit-blocks; (h) Strip maple; (i) Asphalt and coal-tar mastics; (j) Alumina cement rubber latex composition; (k) Magnesium oxychloride composition; (l) Portland cement concrete; and 6. Recommendations and Conclusions.

**ABSTRACT.** A performance test was conducted in the floor-testing chamber of the National Bureau of Standards on a fourth series of 40 different installations involving 26 different floor coverings. Specimens of most of the floor coverings were installed on both a concrete and a wood subfloor. Included in the test were cork tiles, rubber tile containing aluminum oxide aggregate, asphalt tile, marbleized linoleums, felt-backed floor coverings having various wearing surfaces, strip maples, maple unit-block, pecan unit-block, asphalt mastic, coal-tar mastic, alumina cement-rubber latex composition, magnesium oxychloride composition, and 1:2:4 portland cement concrete. Different underlays and adhesives were also included in the test. The test installations are described and results showing the depth of the depressions in the floor coverings made by the equipment are presented in tables. Brief summaries of the manner in which the various installations performed are given, and their appearance at the end of the test is shown by photographs. A few generalized comments and conclusions are made. For the previous reports of this series of tests see BMS 34 (item 441) of this reading list, BMS 43 (item 442) and BMS 68 (item 443).

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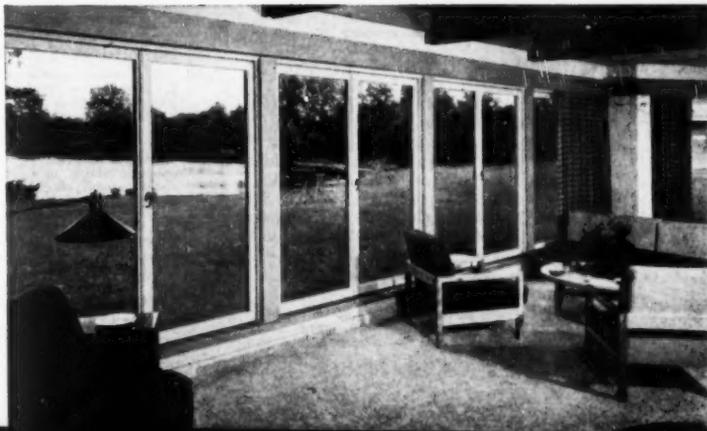
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(445) **INDENTATION AND RECOVERY OF LOW COST FLOOR COVERINGS** by P. A. Sigler and Myrtle B. Woodward; Building Materials and Structures Report BMS 14; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 7, 1939.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Testing Equipment; 3. Test Procedure; 4. Description of Floor Coverings; 5. Results; and 6. Summary and Conclusions.

**ABSTRACT.** Indentation and recovery determinations for loads ranging from 25 pounds to 200 pounds on a flat-ended pin  $\frac{1}{8}$  inch in diameter were made on 23 floor coverings at a relative humidity of 65 percent and temperature of 72° F. Indentation readings were taken for each load at intervals of time up to 30 minutes and then recovery readings at intervals of time up to 120 minutes. Various types of floor coverings were tested, such as asphalt tile, pressed fiber boards, linoleum, felt-base floor coverings having various wearing surfaces, rubber, and wood. A description of the apparatus and the procedure used is given. The results are presented in graphic form to show the relative merits of the various floor coverings with respect to initial and 30-minute indentation under various loads and the recovery after removal of the load. In other words, the chart shows the relative value of the various floor coverings with respect to comfort in walking in comparison with the extent to which they are permanently under abuse.

(446) **INDENTATION CHARACTERISTICS OF FLOOR COVERINGS** by Percy A. Sigler and Myrtle B. Woodward; Building Materials and Structures Report BMS 73; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 15, 1941.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment and Procedure; 3. Description of Samples; 4. Summary of Results; and 5. Comments. (The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, wood, fiberboard, and monolithic compositions. Variations in composition and thickness were included.)

**ABSTRACT.** The indentation characteristics of 64 floor coverings were determined. Tests were conducted on specimens conditioned in an atmosphere of 65 percent relative humidity and 72° F. temperature, on specimens after exposure to accelerated aging, and on specimens at an elevated temperature of 90° F. The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, wood, fiberboard, and monolithic compositions. Variations in composition and thickness were included in many of the types. The apparatus and the procedures are briefly described. Summaries of the results are presented to show the relative merits of the various floor coverings with respect to comfort value, permanent indentation under a concentrated load, and recovery. This report supplements report BMS 14, which is item (445) of this reading list.

(447) **DIMENSIONAL CHANGES OF FLOOR COVERINGS WITH CHANGES IN RELATIVE HUMIDITY AND TEMPERATURE** by Percy A. Sigler, Robert L. Martens, and Elmer A. Koerner; Building Materials and Structures Report BMS 85; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 15, 1942.—7 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Test Procedure and Equipment; (a) Specimens exposed to different relative

humidities; (b) Specimens exposed to different temperatures; 3. Description of Materials Tested; 4. Results; (a) Effect of relative humidity on dimensions; (b) Effect of temperature on dimensions; and 5. Summary and Conclusions.

**ABSTRACT.** The effects of changes in atmospheric conditions on the dimensions of floor coverings were investigated. The floor coverings tested included such general types as linoleum, cork, rubber, felt base, asphalt, strip wood, plywood, fiberboard, and several monolithic compositions, such as cement, mortar and magnesium oxychloride. Dimensional changes due to a variation in relative humidity from 8 to 86 percent and those due to a variation in temperature from 32° to 90° F. were determined. The floor coverings, testing equipment, and procedure are described, and the results are presented in graphic form. Changes in relative humidity affect the dimensions of many floor coverings to a much greater extent than do changes in temperature within the range usually encountered in structures. Such floor coverings as strip wood, linoleum, and felt base show much greater dimensional change in the across-grain or across-machine direction than in the grain or machine direction. The several monolithic compositions showed relatively small changes in dimensions.

(448) **RELATIVE SLIPPERINESS OF FLOOR AND DECK SURFACES** by Percy A. Sigler; Building Materials and Structures Report BMS 100; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1943.—12 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Apparatus; 3. Test Procedure; 4. Floor Surface Conditions; 5. Materials Tested and Results; and 6. Summary of Results and Comments.

**ABSTRACT.** A new pendulum-type machine and a method for determining the relative slipperiness of floor surfaces under various conditions are described. The surfaces were tested when dry and clean, dry and dirty, wet and clean, wet and dirty, wet and soapy, and in a few cases, oily. The results of tests of various floor materials are given, including such general types as stone, terrazzo, cement-mortar, magnesite, ceramic tile, metal, asphalt, rubber, linoleum, and wood. The surfaces of the materials were tested after grinding them with No. 180 silicon carbide. Tests were also made of the original surfaces of many of the materials. The test data show the effect of different wax finishes on the antislip properties of several selected floor materials. In general, considerable difference in slipperiness was found between dry and wet surfaces. Most of the floor materials showed satisfactory antislip properties when dry. Many would be classed as hazardous when wet. (Some of the test data show the effect of abrasives, and of corrugations and embossments, on antislip properties of, for example, ceramic tiles.)

(456) **PROPERTIES OF ADHESIVES FOR FLOOR COVERINGS** by Percy A. Sigler and Robert L. Martens; Building Materials and Structures Report BMS 59; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 19, 1940.—8 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Methods of Testing; (a) Outline of procedure; (b) Adhesive-strength tests; (i) Straight-pull test on dry specimens; (ii) Straight-pull test on specimens exposed to water; (iii) Stripping-pull test on dry specimens; (c) Exposure tests on concrete slabs; (i) Linoleum bonded to concrete and exposed to dampness; (ii) Permeability of coatings to moisture; 3. Results; 4. Summary and Conclusions; and 5. Selected References.

**ABSTRACT.** An investigation was conducted on adhesives and primers used for bonding linoleum and other floor coverings to subfloors. Tests were made to determine their resistance to both a straight pull and a stripping pull when used to bond  $\frac{1}{8}$ -inch battleship linoleum to concrete, wood, and metal. Specimens

were tested in a dry condition and after exposure to moisture. Pieces of linoleum bonded to concrete slabs with selected adhesives and primers were inspected periodically during exposure to moisture. The methods of testing are described and the results are presented in tables. In view of the results of this investigation it would appear advisable in new constructions to waterproof concrete floors which are in contact with the ground. Failure of a floor covering to adhere to the subfloor has a considerable effect on the ability of the floor covering to withstand service. In view of the increasing desire for floor coverings in basements, the moisture resisting qualities of commercial adhesives and of a few experimental preparations were investigated.

#### (d) Fiber Building Boards

(461) **ACCELERATED AGING OF FIBER BUILDING BOARDS** by Daniel A. Jessup, Samuel G. Weissberg and Charles G. Weber; Building Materials and Structures Report BMS 4; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1938.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Testing for Stability; (a) Accelerated aging treatment; (b) Measurement of aging effects; (c) Miscellaneous exposures; 3. Results of Accelerated Aging; 4. Summary and Conclusions.

**ABSTRACT.** Fiber building boards are being tested to determine whether they have satisfactory permanence to justify their wide use in low-cost house construction. Accelerated aging is being used because this information is urgently needed, inasmuch as it would take years to obtain the effects of normal aging. The aging treatments include cycles of wetting, drying, freezing, and heating in dry air, and the stability is judged by the changes in physical and chemical properties. The properties most affected by aging are water absorption, nail-holding power, flexural strength, and permeability to air. Results thus far obtained are favorable. After being subjected to the aging cycles for a total of 300 hours, only two of the boards tested showed serious loss of strength and other desirable properties, despite the drastic nature of the treatments. This "progress report" on vegetable fiber boards describes accelerated aging tests based on the results of the Bureau's experience in the use of similar tests on paper and other cellulose materials.

(NOTE: For a description of tests made to determine the thermal conductivity, water absorption, air permeability, and other properties of such boards, see report BMS 13: "SOME FIBER BUILDING BOARDS OF CURRENT MANUFACTURE," item (462) in this list.)

(462) **SOME FIBER BUILDING BOARDS OF CURRENT MANUFACTURE** by Charles G. Weber and Samuel G. Weissberg; Building Materials and Structures Report BMS 13; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued February 23, 1939.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Boards Tested; 3. Properties and Testing; (a) Thickness and Density; (b) Insulating Properties; (c) Flexural properties; (d) Water absorption; (e) Permeability to water and air; (f) Linear expansion with change in humidity; (g) Nail-holding strength; and 4. Summary.

**ABSTRACT.** This article describes the fiber building boards that are under study in connection with a research on materials for low-cost house construction. Test data are given showing the properties of the different boards, and the test methods

are described. Tests were made for thickness, density, thermal conductivity, flexural properties, water absorption, water permeability, air permeability, linear expansion, and nail-holding strength.

(NOTE: For a description of tests made to determine the relative deterioration of such boards under accelerated aging, see BMS 4: "ACCELERATED AGING OF FIBER BUILDING BOARDS," item (461) in this list.)

- (463) STABILITY OF FIBER BUILDING BOARDS AS DETERMINED BY ACCELERATED AGING by Daniel A. Jessup, Charles G. Weber, and Samuel G. Weissberg; Building Materials and Structures Report BMS 50; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 13, 1940.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thermal insulation; (b) Flexural properties; (c) Nail-holding strength; (d) Water absorption; (e) Water permeability; (f) Air permeability; (g) Outdoor weathering; (h) Moisture-content-relative-humidity relationships; (i) Resistance to rot-producing fungi; (j) Chemical properties; and 4. Summary and Conclusions.

ABSTRACT. Fiber building boards were aged by exposure to cycles of wetting, freezing, drying, and baking and to outdoor weathering. The boards were tested before and after aging to determine the changes produced, and judgment of stability was based on the changes. The properties tested were weight, thickness, expansivity, thermal conductivity, flexural properties, nail-holding strength, water absorption, ash, rosin, and permeability to air and water. Data were obtained on the relationship between the moisture content of the boards and the relative humidity of the surrounding air and on the resistance of the boards to rot-producing fungi. In general, the retention of the most essential properties—namely, thermal conductivity and strength—was excellent. Furthermore, the boards did not support the growth of rot-producing fungi except at relative humidities above 85 percent. At the high humidities, the fiber boards are subject to mold growth, but it was shown that the growth can be prevented, or at least apparently retarded, by use of fungicides.

NOTE: For a description of tests made to determine the relative deterioration of vegetable-fiber building boards under accelerated aging; and for a description of tests made to determine their thermal conductivity, water absorption, air permeability, and other properties, see Reports BMS 4 and BMS 13, which are items (461) and (462) of this list.

- (464) STABILITY OF FIBER SHEATHING BOARDS AS DETERMINED BY ACCELERATED AGING by Daniel A. Jessup, Charles G. Weber, and Samuel G. Weissberg; Building Materials and Structures Report BMS 69; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 22, 1941.—4 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thermal insulation; (b) Flexural properties; (c) Nail-holding strength; (d) Water permeability; (e) Air permeability; (f) Outdoor weathering; (g) Resistance to rot-producing fungi; and 4. Summary and Conclusions. ABSTRACT. Fiber sheathing boards were aged by exposure to wetting, freezing, drying, and to outdoor weathering. Judgment of stability was based on changes produced in the properties of the boards. The properties tested were weight, thickness, expansivity, thermal conductivity, flexural properties, nail-holding strength, and permeability to air and water. Data were obtained on the resistance of the boards to rot-producing fungi. In general, the retention of the essential properties under the aging treatments was excellent. Practically no loss of insulating value was noted and the strength and water

resistance of most of the samples after aging were satisfactory. The boards were not readily subject to mold growth even at excessively high humidities.

- (465) PROPERTIES AND PERFORMANCE OF FIBER TILE BOARDS by Daniel A. Jessup, Herman Bogaty, and Samuel G. Weissberg; Building Materials and Structures Report BMS 77; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 8, 1941.—6 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Samples; 3. Properties and Testing; (a) Thickness and density; (b) Linear expansion with change in humidity; (c) Flexural properties; (d) Thickness of coating; (e) Effect of steam; (f) Impact tests; (g) Resistance to abrasion; (h) Resistance to staining; 4. Summary and Conclusions.

ABSTRACT. Fiber tile board offers considerable promise as a finishing material for installations where much more costly materials are ordinarily used. For this reason performance tests were made on fiber tile boards by subjecting them to conditions which they might possibly meet in service. The properties examined were resistance to abrasive cleaning powders, resistance to staining by household chemicals, and stability of the boards when subjected to cycles of steaming and drying. In addition, data were obtained on the density, expansivity, and flexural properties of the boards, and on the thickness and impact resistance of the finish coatings. The resistance of most of the boards to staining, to impact, and to abrasive cleaning powders was good. Most of the surface coatings were damaged by the cycles of steaming and drying, especially at the edges, where moisture had direct access to the base material, and at the score marks, where the coatings in some of the boards were very thin. The density, expansivity, and flexural properties were satisfactory.



- (481) "RAISING ROOFS BY HYDRAULIC JACKS LOWERS CONSTRUCTION COSTS" by Stanley P. Stewart; in (H.H.F.A.) Technical Bulletin No. 17, issued in June 1951, pages 1-6; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Youtz System; 2. The Youtz-Slick System; 3. A Practical Application at Trinity University; 4. Advantages and Cost Savings. ABSTRACT. This is the first article the H.H.F.A.'s Technical Bulletin has devoted expressly to a proprietary construction method. The Youtz-Slick system is an innovation in building which shows promise of substantial cost savings, and so contributes to achievement of the national housing objectives set by Congress in the Housing Act of 1949. It is intended from time to time to publish other articles of a similar nature. Article is illustrated by five photographs.

- (482) "PREVENTION OF COLD WEATHER ROOF LEAKS" by William A. Russell; in *Housing Research*, Winter 1951-1952; pages 37-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. This article alone is available for 10¢ as H.H.F.A. Technical Reprint No. 14. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Causes of Ice Dams; 2. Effects of Severe Weather; 3. Valleys and Dormers as Leak Sources; 4. Story-and-a-half Houses Vulnerable; 5. Effects on Plaster and Paint; 6. Snow Melt a Factor; 7. Preventing Ice Dams; (a) Insulation; (b) Ventilation; (c) Flashing.

ABSTRACT. Most of the roof leaks and damage associated with heavy snows in combination with below-average temperatures in northern areas of the United States are unnecessary. The purpose of this article is to discuss the causes of cold weather roof leaks and to suggest practical methods which builders may adopt to prevent such damage. The article is based on a survey conducted by the Department of Agriculture's Forest Products Laboratory under an H.H.F.A. research project. The article is illustrated by photographs and drawings.

- (483) "IS YOUR ROOF CONSTRUCTION LEAKING DOLLARS?"—Based upon research at New York University, coordinated by Renato Contini; in *Housing Research*, March 1953, pages 1-15; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Interim Report; (a) The builder's control house; (b) The demonstration house; (c) Truss construction; (d) Special notes and recommendations; (e) Framing clips; 3. Comparison of Labor for Roof; 4. Comparison of Materials for Roof; 5. Over-all Comparison.

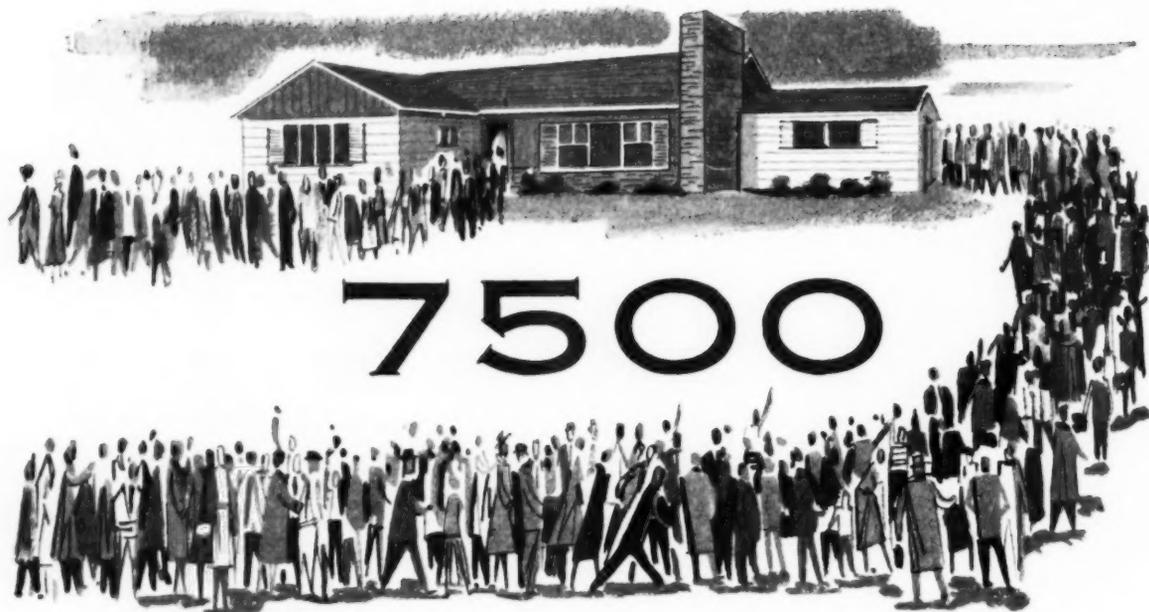
ABSTRACT. Under an H.H.F.A. research project, New York University conducted a test in an attempt to demonstrate techniques for low-cost house construction which will save time and material without a corresponding reduction in quality. This article consists of an interim report from New York University concerning only roof construction. Other phases of the test will be reported upon later. Renato Contini, Coordinator of Research, New York University, is the project director. The article is copiously illustrated by photographs.

- (484) "CLEAR-SPAN ROOF TRUSSES FOR ONE-AND-ONE-HALF STORY HOUSES" by Philip A. Randall; in *Housing Research*, October 1953, pages 21-32; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods Research; 3. Design Development; 4. Testing; 5. Selection of Material; 6. Fabrication; 7. Special Problems of the 1½-story Trussed Frame; 8. Field Erection; 9. Comparison with Conventional 1½-story Framing; 10. Cost Analysis.

ABSTRACT. Preassembled wood roof trusses offer an effective means of cost reduction in small-house construction through direct savings in materials and labor. Seeking a method of continuing the cost-saving advantages of trussed-roof construction and the clear-span open-room finishing techniques developed for the 1-story house with the economy of expansion and flexibility of the 1½-story house, the Division of Housing Research, Housing and Home Finance Agency, sponsored a research project at the University of Illinois Small Homes Council, to develop and test a method of adapting the clear-span type of roof framing to the 1½-story house. This article reports on the development work undertaken at the Small Homes Council by Willard J. Worth and Sidney B. Berry, under the direction of James T. Lendrum. The article is copiously illustrated by detailed drawings.

- (491) SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 6; published by U. S. Department of Commerce, National



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Bureau of Standards, Washington, D. C.—Issued November 4, 1938. —23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Method of Making the Survey; (a) Extent of use of roofing materials in rural sections; (b) Study of the weathering qualities and extent of use of roofing materials in the urban centers; 3. Extent of use of the various roofing materials in rural districts and small towns in the Southeastern States; (a) Factors which affect the choice of roofing materials in rural sections; and (b) in small towns; (c) Territory covered and routes followed in making the survey; (d) Extent of use of particular materials in rural sections and small towns; (e) Summary of the extent of use; 4. Weathering qualities of roofing materials in the Southeastern States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofings; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile roofing; (vi) Metal; (c) Flashings, valleys, gutters, and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers of the Southeastern States; (a) Factors which affect the choice of roofing materials generally; (b) Factors which affect the choice of particular materials; (c) Distribution of roofing materials in the cities covered by this survey (similar data are given, for both new and old construction, for Greensboro, N. C., Columbia, S. C., Savannah, Ga., Jacksonville, Fla., Orlando, Fla., Birmingham, Ala., Atlanta, Ga., Knoxville, Tenn., Charleston, W. Va.); (d) Summary of extent of use in urban centers; and (e) Costs of roofing materials, including cost of application, in urban centers in the Southeastern States.

**ABSTRACT.** A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the Southeastern States is described. Detailed studies of roofing materials in the several cities are reported. A tabulation, by States, of the kinds of roofing materials used on more than 10,000 rural and small town dwellings, along approximately 2,500 miles of highway, is included. Forty-eight photographs, illustrating types of weathering of roofing materials and features of design and construction of roofs, are shown. This survey was made with the cooperation of the Reconditioning Section, Home Owners Loan Corporation.

(492) SURVEY OF ROOFING MATERIALS IN THE NORTHEASTERN STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 29; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1939.—27 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Method of Making the Survey; 3. Extent of Use and Appearance, of the Various Roofing Materials in Rural Districts and Small Towns in the Northeastern States; (a) Factors which affect the choice of roofing materials in rural districts and small towns; (b) Distribution of roofing materials in rural sections and small towns in the Northeastern States; (i) Villages and small towns; (ii) Rural sections; (c) Territory covered and routes followed in making the survey; (d) Extent of use of particular materials in rural sections; 4. Weathering Qualities of Roofing Materials in the Northeastern States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Built-up roofing; (vi) Tile; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers in the Northeastern States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile; (vi) Metal; (vii) Built-up roofing; 6. Damage to Roofs by the Hurricane of September 21, 1938; 7. Costs of Roofing Materials, Including

Cost of Application, in Urban Centers in the Northeastern States; 8. Summary; (a) Distribution; (b) Weathering; 9. Selected References; (a) Asphalt shingles and roll roofing; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; and (g) General, including built-up roofing.

**ABSTRACT.** A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the Northeastern States is described, with numerous comparative references to a similar survey in the Southeastern States. Detailed studies of roofing materials in Wilmington, Del.; Philadelphia, Pa.; New Haven, Conn.; Boston, Mass.; Manchester, N. H.; Portland, Maine; Rutland, Vt.; and Albany and Syracuse, N. Y., are reported. A tabulation, by States, of the kinds of roofing materials used on more than 10,000 rural and small-town dwellings, along approximately 1,600 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used in almost 21,000 rural and small-town dwellings along 4,000 miles of highway in 20 Eastern States. Forty-eight photographs, illustrating types of weathering of roofing materials and features of design and construction of roofs, are shown. **NOTE:** This report is the second of a series. For the first report, see BMS SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES, which is item (491) of this reading list.

(493) SURVEY OF ROOFING MATERIALS IN THE NORTH CENTRAL STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 75; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 1, 1941.—21 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making the Survey; 3. Extent of Use and Appearance of the Various Roofing Materials in Rural Districts and Small Towns in the North Central States; (a) General; (b) Routes followed in making the survey; (c) Extent of use of particular materials in rural sections; 4. Weathering Qualities of Roofing Materials in the North Central States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofings; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Built-up roofing; (vi) Tile; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers in the North Central States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; 6. Roofing Costs in Urban Centers in the North Central States; 7. Summary; (a) Distribution; (b) Weathering; 8. Selected References; (a) Asphalt shingles and roll roofings; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; (g) General, including built-up roofing. **ABSTRACT.** A survey of the weathering qualities and extent of use of the various roofing materials on dwellings in the North Central States is described, with numerous references to similar surveys made previously in the Southeastern and Northeastern States. Detailed studies of roofing materials in Pittsburgh, Pa.; Cincinnati and Toledo, Ohio; Grand Rapids and Lansing, Mich.; Chicago, Ill.; Milwaukee, Wis.; St. Paul, Minn.; Bismarck, N. Dak.; Sioux Falls, S. Dak.; Omaha, Neb.; Kansas City, Moberly, and St. Louis, Mo.; and Indianapolis, Ind., are reported. A tabulation, by States, of the kinds of roofing materials used on more than 8,000 rural and small-town dwellings along approximately 3,000 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used on almost 29,000 rural and small-town dwellings along 7,000 miles of highway in the 32 States covered by the three surveys. Forty-eight photographs, illustrating types of weathering of roofing materials, and features of design and construction of roofs, are shown.

This report is the third of a series, the others being BMS 29; SURVEY OF ROOFING MATERIALS IN THE SOUTHEASTERN STATES, and BMS

29; SURVEY OF ROOFING MATERIALS IN THE NORTHEASTERN STATES, which appear as items (491) and (492), respectively, in the present reading list.

(494) SURVEY OF ROOFING MATERIALS IN THE SOUTH CENTRAL STATES by Hubert R. Snoke and Leo J. Waldron; Building Materials and Structures Report BMS 84; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 5, 1942.—19 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making the Survey; 3. Roofing Materials in Rural Districts in the South Central States; (a) General discussion; (b) Routes followed; (c) Roofing materials in rural sections; 4. Weathering of Roofing Materials in the South Central States; (a) General discussion; (b) Discussion of particular materials; (i) Asphalt shingles and roll roofing; (ii) Wood shingles; (iii) Cement-asbestos shingles; (iv) Slate; (v) Tile; (vi) Built-up roofing; (vii) Metal; (c) Flashings, valleys, gutters, and downspouts; (i) Flashings; (ii) Valleys; (iii) Gutters and downspouts; 5. Extent of Use of the Various Roofing Materials in Urban Centers of the South Central States; (a) Factors which affect the choice of roofing materials generally; (b) Distribution of roofing materials in the cities included in this survey; 6. Roofing Costs in Urban Centers of the South Central States; 7. Summary; (a) Distribution; (b) Weathering; 8. Selected References; (a) Asphalt shingles and roll roofing; (b) Wood shingles; (c) Cement-asbestos shingles; (d) Slate; (e) Tile; (f) Metal; and (g) General, including built-up roofing.

**ABSTRACT.** A survey of the weathering qualities and of the extent of use of the various roofing materials on dwellings in the South Central States is described, with numerous references to similar surveys in the Southeastern, Northeastern, and North Central States. Detailed studies of roofing materials in Chattanooga and Memphis, Tenn.; Jackson, Miss.; New Orleans, La.; Houston, Dallas, San Antonio, and Amarillo, Tex.; Oklahoma City, Okla.; Little Rock, Ark.; and Louisville, Ky., are reported. A tabulation, by States, of the kinds of roofing materials used on 9,500 rural and small-town dwellings, along approximately 4,200 miles of highway between the cities listed above, is included; also a summary of the kinds of roofing materials used on 38,000 rural and small-town dwellings, along approximately 11,000 miles of highway in the 37 States covered by the four surveys. Forty-eight photographs, illustrating types of weathering of roofing materials and features of the design and construction of roofs, are shown. For the previous reports of this series, see BMS 29, BMS 75, and BMS 84, which are items (491), (492), and (493) of the present reading list.

(495) ROOFING IN THE UNITED STATES—RESULTS OF A QUESTIONNAIRE by Leo J. Waldron and Hubert R. Snoke; Building Materials and Structures Report BMS 57; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 18, 1940.—7 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Distribution of Roofing Materials; 3. Durability of Roofing Materials; 4. Unsuiting Roofing Materials; 5. Restricted Roofing Materials; (a) By local regulations; (b) By prohibitive freight rates; (c) Other roofing material not used; 6. Customary Roofing Practices; 7. Valley Material; 8. Flashings, Gutters, and Downspouts; 9. Premature Failures; 10. Roofing Nails; 11. Use of New Types of Roofing Materials; and 12. Recapitulation. **ABSTRACT.** In an effort to obtain a general picture of roofing practices and conditions throughout the country, a questionnaire was circulated to 148 field offices of the Home Owners' Loan Corporation and Federal Housing Administration in 48 States and the District of

Columbia. This report summarizes the combined results of these replies. The questionnaires covered the following items: Distribution, durability, unsuitability, and restrictions of various roofing materials; customary roofing practices; materials for nails, valleys, flashings, gutters and downspouts; causes of premature roof failures; and the use of new types of roofing materials. The data are presented graphically where possible.

(496) METALLIC ROOFING FOR LOW-COST HOUSE CONSTRUCTION by Leo J. Waldron; Building Materials and Structures Report BMS 49; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 7, 1940.—23 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Aspects of Metal Roofing; (a) General; (b) Effects of temperature; (c) Relative weights of roofing materials; (d) Fire and lightning protection; (e) Mechanical strength and rigidity; 4. Basic Principles of Metal-Roof Construction; (a) General; (b) Seams; (i) Lap seam; (ii) Flat-lock seams; (iii) Single-lock seam; (iv) Standing seam; (v) Double-lock seams; (vi) Loose-lock seams; (vii) Batten seams; (c) Roof decks; (d) Nails for metal roofs; (e) Galvanic action; (f) Types of metal roof coverings; (i) Flat sheets with various types of seams; (A) Batten-seam roofing; (B) Standing-seam roofing; (C) Flat-seam roofing; (ii) Corrugated roofing; (iii) Roofing units; (g) Units of roof measurement; 5. Galvanized Sheet Steel; (a) General; (b) Types of galvanized steel roofing; (i) V-cripp roofing; (ii) Corrugated sheets; (iii) Pressed standing-seam roofing; (iv) Rolled roofing; (v) Shingles; (vi) Patented features; (c) Durability of galvanized ferrous sheets; (i) Details of American Society for Testing Materials tests; 6. Terne Roofing; (a) General; (b) Types of terne roofings; (i) Flat-seam roofs; (ii) Standing-seam roofs; (iii) Batten and combination-type roofs; 7. Maintenance of Terne and Galvanized Roofs; (a) Galvanized roofs; (b) Terne roofs; 8. Copper Roofing; (a) General; (b) Types; (i) With standard-weight sheets; (ii) With light-weight sheets; 9. Summary; and 10. Selected References. ABSTRACT. The general aspects and status of metals utilized for roofing purposes are discussed. Considerations which apply in general to all roofing materials and to metals in particular are given. Basic principles of metal-roof construction are listed, together with descriptions of the type of seams, decks, nails, and coverings used. Galvanized sheet steel, terne, and copper roofings are discussed in detail because they constitute the bulk of present-day roofs. The durability of galvanized sheet-steel roofings is shown by the data obtained from outdoor-exposure tests conducted by the American Society for Testing Materials. Information on the maintenance of terne and galvanized roofs is given.

(497) ASPHALT-PREPARED ROLL ROOFINGS AND SHINGLES by Hubert R. Snoke; Building Materials and Structures Report BMS 70; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 10, 1941.—34 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Historical; (b) General; 2. Definition of Asphalt-Prepared Roofings; 3. Materials Used in Asphalt-Prepared Roofings; (a) Felt; (b) Asphalt; (c) Surfacing materials; (d) Composition of typical roofings; 4. Manufacture of Asphalt-Prepared Roofings; 5. Factors Which Should be Considered in Purchasing Asphalt-Prepared Roofings; (a) Roll roofings; (b) Asphalt shingles; (i) General discussion; (ii) Coverage; (iii) Headlay; (iv) Sidelap; (v) Exposure; (vi) Weight; (A) Per unit area of shingle; (B) Per unit area of roof; (vii) Cost; 6. Methods of Application; (a) General discussion; (i) Weather conditions; (ii) Roof deck; (iii) Valleys; (iv)

Edging; (b) Roll roofings; (i) General instructions; (ii) Pitch of the roof; (iii) Horizontal application; (iv) Blind nailing; (v) Vertical application; (vi) Hips and ridges; (vii) Flashings; (c) Asphalt shingles; (i) Pitch of the roof; (ii) Underlay; (iii) Edging and strating strips; (iv) Nails and clips; (v) Hips and ridges; (vi) Flashings; (vii) Methods of applying particular types of shingles; (A) Individual shingles—American method; (B) Individual shingles—Wide-space, hexagonal, and Dutch-lap methods; (C) Square-butt strip shingles; (D) Hexagonal-pattern strip shingles; 7. Weathering of Asphalt-Prepared Roofings; 8. Maintenance of Asphalt-Prepared Roofings; (a) Smooth-surfaced roofings; (b) Mineral-surfaced roofings; and 9. Specifications. ABSTRACT. Asphalt-prepared roofings are defined, their development is sketched briefly, and recent statistics of production are presented. Factors which influence the choice of roofing materials generally are discussed. Materials used in the manufacture of asphalt-prepared roofings and the processes of manufacture are described. Analyses of typical roofings are shown. Factors which should be considered in purchasing asphalt-prepared roll roofings and shingles are discussed, and illustrated graphically for types of shingles that are used most generally. Methods of application and maintenance are described, and the weathering of asphalt-prepared roofings is discussed.

## (f) Concrete and Concrete Aggregates

(511) "FOAMED CONCRETE"—Author not stated; in (H.H.F.A.) *Technical Bulletin No. 16*, issued in November 1950, pages 13-15; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Methods of Making Foamed Concrete; 3. Properties of Foamed Concrete; 4. Discussion. ABSTRACT. "Foamed concrete" is a term usually associated with concrete having no aggregate, made primarily of cement, water, and proper admixtures so that the resultant concrete contains a great amount of entrained air or gas in the form of very small bubbles which create a texture similar in appearance to sponge. When aggregates are included, the result is "Aggregate foamed concrete."

(512) PROPERTIES OF SOME LIGHTWEIGHT - AGGREGATE CONCRETES WITH AND WITHOUT AN AIR-ENTRAINING ADMIXTURE by Perry H. Petersen; Building Materials and Structures Report BMS 112; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 16, 1948.—7 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Concrete; 4. Description of Specimens and Test Results; a. Compressive Strength; b. Flexural Strength; c. Bond Strength to Reinforcement; d. Heat-Transfer Properties; e. Thermal-Expansion Coefficients; f. Shrinkage; g. Rain Penetration; and 5. Summary. ABSTRACT. The physical properties of several lightweight aggregate portland cement concretes made with burned shale or expanded shale were investigated at the National Bureau of Standards. Three grades of concrete using each aggregate were made. Air-entrainment of greater than 20 percent is reported for

the mixture leanest in cement, an air-entraining admixture being used to increase the workability of all but the richest concretes. Compressive, transverse, and bond strengths are given as well as resistance to heat transfer, rain penetration, and water penetration by capillarity. Also included are the coefficients of thermal expansion, shrinkage, and values for change in length due to wetting and drying. The investigation was undertaken by the Bureau in cooperation with the Federal Public Housing Authority to determine the application of such a concrete in the construction of housing.

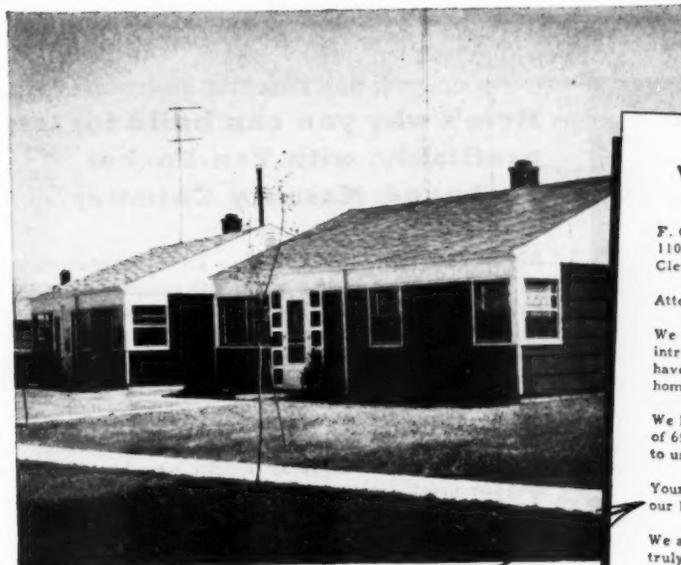
(513) PROPERTIES OF A POROUS CONCRETE OF CEMENT AND UNIFORM-SIZED GRAVEL by Perry H. Petersen; Building Materials and Structures Report BMS 96; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 18, 1943.—15 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Cement; (b) Aggregate; 3. Preliminary Studies; (a) Mixing the porous concrete; (b) Placing concrete in wall specimens; (c) Method of molding cylinders; (d) Preliminary tests, using pea gravel; (e) Preliminary tests, using grits; (f) Preliminary tests, using  $\frac{3}{8}$ -inch gravel; 4. Description of Specimens and Test Results; (a) Transverse strength; (b) Heat-transfer properties; (i) Specimens; (ii) Test equipment and procedure; (iii) Heat-transfer data and results; (c) Compressive strength; (d) Shrinkage and thermal-expansion coefficients; (e) Water penetration due to capillarity; (f) Resistance to rain penetration; (i) Specimens; (ii) Test equipment and procedure; (iii) Test results; (g) Bond strength; (h) Resistance to failure by diagonal tension; and 5. Summary. ABSTRACT. The physical properties of a porous concrete consisting solely of portland cement, water, and uniform-sized gravel were investigated. Each of three coarse aggregates, grits (No. 8 to No. 4), pea gravel (No. 4 to  $\frac{3}{8}$  inch), and  $\frac{3}{8}$  inch gravel ( $\frac{3}{8}$  to  $\frac{1}{2}$  inch), was used, with 2½ bags of cement per cubic yard in concrete tamped in place and 3 bags per cubic yard when no compacting was done. Walls, walletes, beams, and bond pull-out specimens were tested, as well as 6 by 12 inch conoid cylinders. Compressive, transverse, shearing, and bond strengths are reported, as well as resistance to heat transfer, water penetration by capillarity, and rain penetration. These tests were undertaken in cooperation with the Federal Public Housing Authority to determine the application of such a concrete in the construction of low-cost housing.

(514) RELATION OF SHRINKAGE TO MOISTURE CONTENT IN CONCRETE MASONRY UNITS by George L. Kalousek, Richard J. O'Heir, Kenneth L. Ziems, and Edwin L. Saver. This study was prepared within the Research Foundation of the University of Toledo, under the general supervision of John K. Selden, Coordinator of Housing Research. The introduction was prepared by William A. Russell, Chief, Technical Standards Unit, Division of Housing Research, Housing and Home Finance Agency; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1953, as "Housing Research Paper No. 25,"—28 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Cement; (b) Aggregates; (c) Air-Entraining Agent; (d) Mix proportions; 3. Methods of Casting; 4. Methods of Measuring Physical Properties; (a) Strengths; (i) Bars; (ii) Blocks; (b) Volume changes; 5. Pre-

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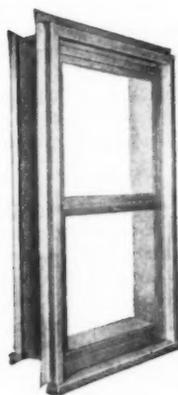
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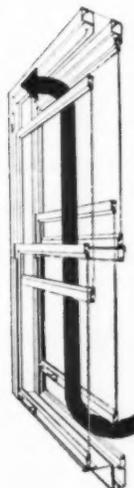
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WITH  
CEMENT  
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BRICK  
HOUSING  
MEASURING  
16 1/2" x 24"

24" CHIMNEY  
SECTIONS  
CAN BE  
COMBINED  
WITH  
12" SECTION  
FOR ANY  
HEIGHT

LEAK-PROOF,  
GAS TIGHT  
JOINTS,  
PERMA-  
NENTLY  
SEALED  
WITH  
ACID-PROOF  
CEMENT

ALL JOINTS  
UNDER  
COM-  
PRESSION,  
NOT  
AFFECTED BY  
BUILDING  
SETTLEMENT

CHIMNEY  
SUPPORT  
SUSPENDED  
BETWEEN  
JOISTS,  
ELIMINATES  
CHIMNEY  
FOUNDATION  
HEAVY IRON  
STRAPS FOR  
ABSOLUTE  
SAFETY.

STEEL  
REINFORCED  
CONCRETE  
BASE  
INSULATING  
PAD.

STAINLESS  
STEEL  
STANDARD  
SMOKE PIPE  
THIMBLE  
TO CONNECT  
FURNACE,  
WATER  
HEATER,  
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WITH  
ALUMINUM  
HOUSING  
MEASURING  
14 1/4" x 18 1/2"

FLASHING  
PLATE  
ADJUSTABLE  
TO ANY  
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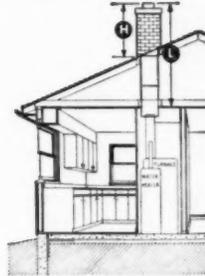
SECTION  
7" I.D., 14 1/4" O.D.  
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ASBESTOS  
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CAN BE  
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WHERE  
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IN ROOMS,  
SO SAFE  
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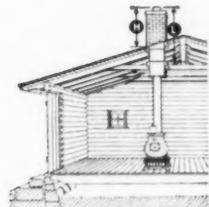
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liminary Tests Using Laboratory Equipment; 6. Results and Discussion; (a) Strengths; (i) General considerations; (ii) Compositions of mixes; (b) Strength data; (c) Volume changes and moisture contents; (d) Shrinkage or moisture loss-drying time relations; (ii) Moisture loss-drying time relations; (iii) Shrinkage-moisture content relations; (iv) Summary of shrinkage data; (A) Sand and gravel; (B) Cinders; (C) Expanded shale; (D) Expanded slag; (E) Sintered shale; (F) Pumice; 7. Summary; 8. Appendix; (a) Photograph of comparator mounted in position on block; (ii) Graphs; (iii) Tables.

**ABSTRACT.** This report covers the first in a series of investigations aimed at the reduction of shrinkage cracking of concrete masonry unit construction. It is limited to investigation of the relation of shrinkage to moisture content of individual concrete masonry units and small laboratory test bars. Factual data are presented in the report regarding shrinkage and moisture content covering a range of six types of aggregates, four commercial curing methods, and various other variables which affect shrinkage characteristics of individual concrete masonry units. Investigations of the relation of shrinkage to moisture content in individual concrete masonry units reported were performed at the Research Foundation of the University of Toledo, sponsored by the Housing and Home Finance Agency and various industry groups.

**(531) LIGHTWEIGHT CONCRETE AGGREGATES** by Perry H. Petersen (For the names of research workers on the project, see below); published by Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C., August 1949.—28 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of Project; 3. Aggregates; (a) Bureau of Reclamation Aggregates; (b) National Bureau of Standard Aggregates; 4. Concretes; (a) Bureau of Reclamation Concretes; (b) National Bureau of Standards Concretes; 5. Discussion; (a) Aggregates; (b) Design of Concretes; (c) Properties of Concretes; 6. Summary; (a) Expanded Clay, Shale or Slate Concretes; (b) Sintered Fly Ash Concretes; (c) Expanded Slag Aggregate Concretes; (d) Scoria Aggregate Concretes; (e) Pumice Aggregate Concretes; (f) Perlite Aggregate Concretes; (g) Expanded Vermiculite Concretes; (h) Pumice Aggregate Concretes; (i) Diatomaceous Earth Concretes; 7. Conclusions; and 8. Recommendations.

**ABSTRACT.** In recent years many inorganic lightweight materials, both natural and processed, have been introduced and marketed as concrete aggregates. Recognizing the potential advantages of low density concretes and the need for reliable technical information on them regarding their suitability for use in dwelling construction, the Housing and Home Finance Agency sponsored an investigation conducted jointly by the Bureau of Reclamation, U. S. Department of the Interior, and the National Bureau of Standards, United States Department of Commerce. The large number of variables entering into the making, placing and curing of concrete emphasizes that full consideration of all pertinent factors is essential. Each laboratory utilized the best known methods in developing the data covered in this report. It is believed that with comparable aggregates and sound practices in mixing, placing and curing, concretes having substantially similar properties may be expected in the field. The report combines the investigations of monolithic, poured-in-place, lightweight aggregate concretes by the two agencies. There were 32 aggregates received, and all but one were incorporated in concrete. Data on aggregate, mixing of the concrete, and physical properties of the concrete such as compressive and transverse strength, modulus of elasticity, thermal conductivity, resistance to freezing and thawing, and the amount of drying shrinkage were recorded and discussed. Brief outlines of the test methods and all of the pertinent data and test results, including comprehensive tables and illustrations, are in the report, which was written under the direction of Leonard G. Haeger and Joseph H. Orendorf, Director and Deputy Director, re-

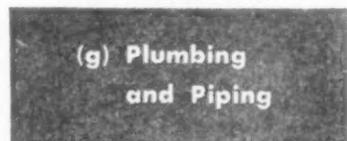
spectively, of HIFA's Division of Standardized Building Codes and Materials, and of Ralph R. Britton, Research work on the project at the National Bureau of Standards was supervised by Douglas E. Parsons, Chief, Building Technology Division; and W. McBurney, and was performed by Ralph W. Kluge, M. M. Sparks, and E. C. Tuma; that at the Bureau of Reclamation by R. F. Blanks, Head, Research and Geology Division, Walter H. Price, W. A. Gordon, and M. E. Hickey. The aggregates used in the investigation were furnished through the courtesy and cooperation of 25 American firms. In addition, three aggregates included in the investigation at the National Bureau of Standards were produced experimentally by John E. Conley of the Bureau of Mines, U. S. Department of the Interior, Howard Wharton was in charge of liaison work with the two laboratories.

**(532) PHYSICAL PROPERTIES OF TERRAZZO AGGREGATES** by Daniel W. Kessler, Arthur Hockman, and Ross E. Anderson; Building Materials and Structures Report BMS 98; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1943.—19 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Description of Aggregates; (a) Color; (b) Mineralogical classification; (c) Texture; (d) Structure; (e) Fabrication; 3. Description of Tests; (a) Wear resistance; (b) Toughness; (c) Absorption; (d) Bulk specific gravity; (e) Dust content; (f) Percentage of voids; (g) Thickness gradings; (h) Dimensional changes; (i) Moisture effects; (ii) Temperature effects; 4. Results of Tests; (a) Wear resistance; (b) Toughness; (c) absorption; (d) Bulk specific gravity; (e) Dust content; (f) Percentage of Voids; (g) Thickness gradings; (h) Dimensional changes; (i) Moisture effects; (ii) Temperature effects; and 5. Summary.

**ABSTRACT.** The extensive use of terrazzo in a wide variety of buildings and some variability in its performance have caused a demand for more specific information on the materials used in making this product. Terrazzo specifications seldom afford adequate control over the quality of the aggregates, and since troubles sometimes occur that are attributed to faulty aggregates, this investigation was undertaken to supply data on certain properties of the marbles used for making terrazzo chips. Comparative data are given on 77 samples of the commonly used products. Samples were supplied by 24 producers representative of various quarries in 12 states. The abrasive resistance, bulk specific gravity, absorption, and toughness tests were made on the rock in the original condition, and the percentage of dust, percentage of voids, and thickness gradings tests were made on samples of No. 2 chips. Moisture-expansion tests were made on a few samples, including two thought to be faulty. Thermal coefficients were determined for one sample in three directions at right angles to each other. A few samples were found to be rather low in abrasive resistance and friable enough to produce a considerable amount of dust in their shipping containers. Bulk specific gravity and absorption values varied considerably for the entire series and also for samples of similar mineral compositions. The percentages of voids in chips of No. 2 aggregates were determined for samples when poured into a volumetric measure and also when compacted by vibrating. The void space obtained for loose chips is assumed to be comparable to that of portions measured by workmen in mixing, whereas the values for the vibrated samples give an indication of the minimum amount of cement paste required in a well-rolled terrazzo floor. Since it is commonly believed that flat or thin chips are undesirable, a test was devised to separate samples of No. 2 aggregates (chips passing  $\frac{1}{4}$  in. and retained on  $\frac{1}{8}$ -in. mesh) into four thicknesses. The percentages of particles in each of these fractions show characteristic differences for samples that are similar in other properties. The shape of the particles seems to bear no relation to the type of crushing equipment used, but is a characteristic of the rock. A few terrazzo slabs were made with chips of unusual thickness distribution and were cut through the middle for studying the

orientation of flat or elongated chips in the finished product. These show a tendency for such particles to assume horizontal positions when the terrazzo mixture is rolled, and thus interfere with the removal of excess cement paste. One sample showed a large expansion while absorbing water, the amount being about equal to that of a 70° C temperature change, but the expansions for other samples were comparatively low. Contractions of the samples while drying were about the same as expansions while soaking. Thermal-expansion measurements on an impure calcite marble over the range -24° to +60° C gave variable coefficients over different temperature intervals, and for different directions in the stone. The highest coefficient (0.0000087) was obtained when the specimen was cooled from 60° to 0° C. Samples supplied for this investigation were secured from practically all of the domestic sources. Since a few of the aggregates had been reported to give trouble in terrazzo mixtures, certain studies were made on these to determine if they contributed to excessive shrinkage in terrazzo mixtures.



**(551) BACKFLOW PREVENTION IN OVER-RIM WATER SUPPLIES** by Gene E. Golden and Roy B. Hunter; Building Materials and Structures Report BMS 28; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 24, 1939.—17 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Previous Work on the Subject; 3. Purpose and Scope of the Investigation; 4. Outline of the Problem; (a) Definition of safe and critical air gaps; (b) Statement of the general problem; (c) Factors affecting the critical air gap; (d) Discussion of the factors; (i) Magnitude of the vacuum pressure; (ii) Air backflow capacity of faucets; (iii) Dimensions and shape of the faucet spout; (iv) Position of the faucet spout with respect to nearby fixture walls; (v) Temperature of the water in the fixture; (vi) Atmospheric conditions; (vii) Physical characteristics of the liquid in the fixture; (e) Statement of the specific problem and method of approach; 5. Experimental Procedure; (a) Experimental apparatus; (b) Devices tested; (i) Orifices; (ii) Tubes; (iii) Faucets; (c) Determination of equivalent diameters of tubes and faucets; (d) Measurement of critical air gaps; (e) Effect of water temperature on critical air gaps; (f) Effect of adjacent walls; (g) Effect of different liquids on the critical air gap; 6. Analysis of Experimental Data; (a) Empirical equation for the critical air gap for tubes; (b) Application of air-gap equation to faucets; (c) Effect of adjacent walls; 7. Practical Application of Results; 8. Conclusions; and 9. References.

**ABSTRACT.** This report describes the methods used and the results obtained in the investigation of the prevention of backflow from plumbing fixtures with over-rim supply by means of air gaps between the supply opening and the highest possible liquid level in the fixture. The previous work is discussed and the data necessary for a complete understanding of the subject are presented. The treatment has been developed from the point of view of the construction of the supply fitting as well as its location with respect to the fixture. Finally, recommendations are offered in a form suitable for use in field inspection.

**(552) STRENGTH OF SOFT-SOLDERED JOINTS IN COPPER TUBING** by Arthur R. Maupin, William H. Swanger and Building Materials and Structures Report BMS 58; published by U. S. Department of Commerce, National Bureau of Standards, Washington,

D. C.—Issued September 20, 1940. —25 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Previous Investigations; 3. Scope of Investigation; 4. Materials: (a) Tubing; (b) Fittings; (c) Solders and fluxes; 5. Short-Time Tensile Tests; (a) Depth of bore; (b) Diametral clearance; compositions of solder and of metals soldered; (c) Test procedure; (d) Discussion of results; (e) Tests at 0° to 350° F on joints made with (50-50) tin-lead and with (95-5) tin-antimony solders; 6. Joints made with (50-50) tin-lead solder; (a) Long-time tests at room temperature (about 85° F); (b) Long-time tests at 85° F on joints in 3-inch tubing; (c) Long-time tests at 123°, 173°, 218°, and 250° F; 7. Maximum Shear-Stress-Temperature Relations for Joints Made With (50-50) Tin-Lead Solder; 8. Maximum Internal-Pressure-Temperature Curves for Joints in Copper Tubing Made With (50-50) Tin-Lead Solder; 9. Joints Made With (95-5) Tin-Antimony Solder; (a) Long-time tests at room temperature (about 85° F); (b) Long-time tests at 250° and 325° F; 10. Maximum Shear-Stress-Temperature Relations for Joints Made With (95-5) Tin-Antimony Solder; 11. Fluctuating Tensile Load Tests on Joints Made With (50-50) Tin-Lead Solder; 12. Summary; and 13. Selected References.

**ABSTRACT.** An extended investigation was made of the strength, under tensile loading, of sleeve joints in copper tubing, with wrought-copper and cast-brass couplings, soldered with (50-50) tin-lead and (95-5) tin-antimony alloys. In short-time tests (speed of movable head 0.06 inch per minute) the strength of the joints was substantially equal to that of the tubing or fittings. The strength varied directly with the depth of insertion of the tubing into the fitting, and was greater at diametral clearances of 0.004 to 0.010 inch between tubing and fitting than at greater clearances. The strengths were higher at 0° F than at 85° F and decreased rapidly as the temperature was further increased. In long-time tests (10,000 hours or more) under constant tensile loads, the strength of joints soldered with tin-lead was about one-eighteenth of that obtained in short-time tests, from 85° to 250° F; joints soldered with tin-antimony had from one-fifth to one-seventh of the short-time strength, depending upon the temperature. At 250° F and upward, diffusion of copper from the tubing into the solder films, in joints made with tin or tin-alloy solders, may weaken or destroy the metallic bond between the solder and tubing. Results of pulsating tensile-load tests, limited to the joints soldered with 50-50 tin-lead, indicated that the strength under repeated loading was not less than under steady loading. The increasing use of thin-walled copper tubing with soft-soldered sleeve joints in domestic plumbing installations and the need for definite information on temperature limitations and the effects of long-time loading on the strength of such joints prompted the investigation begun in 1936 in cooperation with the Federal Housing Administration. After 1937 the investigation was continued on the Research Associate Plan, under the sponsorship of the Copper and Brass Research Association and Committee A40 of the American Standards Association. See also item (554) of this reading list.

(553) **PLUMBING MANUAL**—Report of Subcommittee on Plumbing, Central Housing Committee on Research, Design, and Construction, Chairman of Subcommittee: Robert K. Thulman, Federal Housing Administration; Building Materials and Structures Report BMS 66; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 22, 1940. —70 pages; price: 20c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of the following, with minor subdivisions omitted: 1. Introduction; 2. Recommended Minimum Requirements for Plumbing; (a) Definitions; (b) General regulations; (c) Quality, weight, and thickness of ma-

terials; (d) Joints and connections; (e) Traps and clean-outs; (f) Water supply and distribution; (g) Plumbing fixtures; (h) Soil and waste pipes for sanitary systems; (i) Storm drains; (j) Vents and venting; (k) Indirect connections to waste pipes; (l) Maintenance; (m) Inspection and tests; 3. Explanations, Illustrations, and Interpretations; 4. Tables (22 in all, included in the text); 5. Figures (24 in all, included in the text). A copious index is on pp. 63-70. **ABSTRACT.** This report has been prepared by a representative committee to serve as a guide for Federal agencies that design, install, or approve plumbing. It is the product of a careful review of existing recommendations, supplemented by consideration of the results of experimental work at the National Bureau of Standards and by group discussion among the committee members. The aim has been to insure adequate and healthful plumbing at a minimum of expense. It is hoped that the report will prove useful, not only for Federal plumbing work, but also in connection with efforts to bring about greater uniformity in plumbing requirements and to reduce the cost of construction, of which plumbing forms a part. In essence it is a manual of recommended plumbing practices. Part I consists of an introduction explaining the origin of the work. Part II contains recommendations regarding necessary sizes of piping, precautions against pollution of water supply, permissible types of venting, and other matters customarily covered in plumbing codes. Part III contains information useful in applying the recommendations, including illustrative interpretations of the specific requirements in Part II. The recommendations are presented as suitable for adoption by Federal agencies engaged in actual plumbing work or in passing upon plans of structures containing plumbing.

(554) **STRENGTH OF SLEEVE JOINTS IN COPPER TUBING MADE WITH VARIOUS LEAD-BASE SOLDERS** by Arthur R. Maupin and William H. Swanger; Building Materials and Structures Report BMS 83; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 5, 1942.—9 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Tubing; (b) Solders; 3. Testing Procedure and Results; (a) Short-time tensile tests; (b) Long-time loading tests; 4. Discussion; 5. Summary; 6. Selected References; 7. Appendix. Results of long-time loading tests on joints made with solders listed in table I. **ABSTRACT.** A previous investigation (report BMS 58: STRENGTH OF SOFT-SOLDERED JOINTS IN COPPER TUBING; item 552 in this reading list) on soft-soldered sleeve joints in copper tubing for domestic plumbing lines and other uses dealt with joints made with two tin-base solders. To supplement that investigation, the present one on similar joints made with various lead-base solders was conducted. Solders of the following types were used: lead-silver, lead-tin-antimony, lead-cadmium, high lead-low tin, and high-purity lead. Tensile tests at room temperature (short-time tests) were made, together with long-time tests at temperatures ranging from 85° to 325° F. The information from the latter tests is much more useful than the results of short-time tests in evaluating soldered joints for service. Consideration must always be given also to possible bond deterioration of the soldered joint at elevated temperatures. On the basis of the result of the first investigation, joints in copper made with tin-base solders were considered satisfactory for general use, provided the temperature did not exceed 250° F. The results of the present study have shown that similar joints made with lead-base tin-free solders can be used with safety at temperatures as high as 325° F.

(555) **STACK VENTING OF PLUMBING FIXTURES** by John L. French; Building Materials and Structures Report BMS 118; published by U. S. Department of Commerce, National Bureau of

Standards, Washington, D. C.—Issued January 23, 1950.—21 pages; price: 15c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Statement of the Problem; 3. Previous Consideration of the Problem; 4. Description of Test System; 5. Test Procedure; 6. Test Results; 7. Interpretation of Test Results; (a) Probable loads from a single group of bathroom fixtures and a combination fixture; (b) Permissible trap-seal losses; (c) Conclusions; 8. Factors Affecting the Performance of Stack-Vented Fixtures; (a) Rate of fixture discharge; (b) Diameter of stack; (c) Vertical distance between bathtub or water-closet drain and combination-fixture drain; (d) Diameter of combination fixture drain; (e) Length and slope of bathtub or water-closet drains; (f) Type of fitting connecting combination fixture to stack; (g) Trap dimensions; (h) Submerged house drain; 9. Corrosion and Fouling; 10. Conclusions; and 11. References.

**ABSTRACT.** This report describes the methods used and the results obtained in an investigation of the adequacy of stack venting a group of plumbing fixtures on the top floor of a building. Trap-seal losses of stack-vented fixtures in an experimental installation are reported, a test loading having a reasonable probability of occurrence is developed, and a criterion of satisfactory trap-seal loss is proposed. The experimental results are interpreted in the light of the adopted test loading and the adopted permissible trap-seal loss. And, finally, conclusions in a form suitable for the use of code-writing authorities are made. Stack venting can be used satisfactorily under certain restricted conditions and makes possible appreciable economies in the construction of building drainage systems. NOTE: Ever since the formation of the Department of Commerce Building Code Committee in 1921, investigations of the various fundamental problems relating to the physics of flow in the water-supply and sanitary drainage systems of buildings have been in progress at the National Bureau of Standards. These investigations have resulted in the publication of various reports, many of which are included in the present reading list. Investigations of plumbing systems were almost completely suspended at the National Bureau of Standards during World War II but were resumed about 1948, largely owing to the sponsorship of research projects by the Housing and Home Finance Agency as part of a comprehensive research program sponsored by that Agency as a part of their program under their statutory authority. The specific problems studied in these investigations comprise part of this program and include stack venting, wet venting, the self-siphonage of fixture traps, and the capacities of vertical building stacks and horizontal branches.

(556) **WET VENTING OF PLUMBING FIXTURES** by John L. French, Herbert N. Eaton, and Robert S. Wyly; Building Materials and Structures Report BMS 119; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 1, 1950.—27 pages; price: 20c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope of the Investigation; 3. Previous Investigations of the Performance of Wet-Vented Fixtures; 4. Nature of the Phenomena Involved in Wet Venting; 5. Tests on a Single-Story Wet-Vented System with Lavatory and Combination Fixtures Connected to the Wet Vent; (a) Description of the test system; (b) Test procedure; (c) Test results; (i) Tub not discharged; (ii) Tub discharged; (d) Interpretation of test results; (i) Loads on the drainage system from a single group of bathroom fixtures and a combination fixture; (ii) Permissible trap-seal losses; (iii) Permissibility of venting a bathtub trap with a wet vent to which a lavatory and a combination fixture are connected; (iv) Summary; 6. Factors Affecting the Performance of Wet-Vented Systems; (a) Length of horizontal branch; (b) Slope of horizontal branch; (c) Diameter of



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horizontal branch; (d) Tub drain length and slope; (e) Trap dimensions; (f) Effect on the trap-seal losses of a wet-vented bathtub of increasing the diameters of the lavatory and combination fixture drains; 7. Tests on a Single-Story Wet-Vented System with only a Lavatory Connected to the Wet Vent; 8. Tests on Two-Story, Duplex, Wet-Vented System; 9. Wet-Vented Fixtures on the Lower Floors of Multi-Story Buildings; 10. Conclusions; and 11. References.

**ABSTRACT.** This report gives the results of laboratory tests of various wet-vented single and two-story plumbing drainage systems. A suggested test or design loading for such systems is developed, and a permissible trap-seal loss for the fixtures of wet-vented systems is proposed. Conclusions regarding the limits under which wet-vented fixtures located on the upper floor of a system will operate satisfactorily are given in a form sufficiently simple for inclusion in planning codes. This report is the second in a series of three National Bureau of Standards reports giving the results of an investigation of the problems involved in the proper venting of single plumbing fixtures or a relatively small group of such fixtures, the first report being BMS-118: STACK VENTING OF PLUMBING FIXTURES, (item 555) of the present reading list, which was published in January 1950. A fixture is said to be wet vented when its vent serves also to carry the discharge from fixtures connecting into the drainage system at a higher level. The use of wet venting reduces the number of individual vent pipes required by a plumbing drainage system as contrasted with the number required by the conventional back-vented system and hence reduces the cost of the venting system. This fact has led to an increased tendency among code-writing authorities to permit the wet venting of plumbing fixtures under certain circumstances. One of the objects of this investigation was to determine under what circumstances it is legitimate to use this form of venting in order to afford a sound basis for code provisions relating to this matter. The research forming the basis for this report was first undertaken for the National Housing Agency in connection with the Veterans Emergency Housing Program of that Agency and was continued and completed under the Housing Research Program of the Office of the Administrator, Housing and Home Finance Agency, as part of the research program of that Agency under its statutory authority.

(557) **SELF-SIPHONAGE OF FIXTURE TRAPS** by John L. French and Herbert N. Eaton; Building Materials and Structures Report BMS 126; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 15, 1951.—32 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Nature of the Phenomenon; 3. Statement of the Problem; 4. Previous Consideration of the Problem; 5. Preliminary Considerations; 6. Analysis of the Problem; 7. Experimental Investigation; 8. Conclusions; 9. Considerations Regarding the Self-Siphonage Problem; 10. Importance of Economy in the Use of Water; and 11. References.

**ABSTRACT.** This paper describes the methods used and the results obtained in an experimental investigation of the self-siphonage of fixture traps in plumbing systems. Self-siphonage is the reduction in depth of the water seal in the trap by flow from the fixture that discharges through the trap. The different factors that affect self-siphonage are determined, and methods for reducing the ill effects of self-siphonage are suggested. Finally, recommendations and conclusions in a form suitable for use by code-writing authorities are presented. Hitherto it had been customary to control self-siphonage by limiting the unvented length of drain connected to the fixture. However, this investigation has shown that other factors than the length of fixture drain affect self-siphonage. Among these are the diameter of the trap and the depth of trap seal, the diameter and slope of the fixture drain, the type of vent fitting used, and the rate of discharge of the fixture. This investigation has shown to what extent these other factors affect trap-seal losses,

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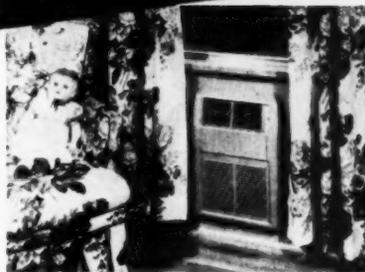
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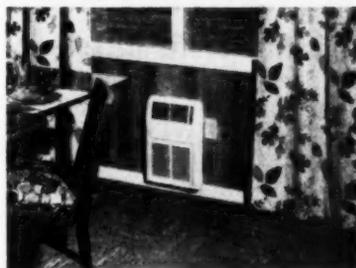
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and the report gives the necessary information to take them into account properly in the design of the system. It also shows the importance of standardizing fixture traps and the hydraulic characteristics of plumbing fixtures, such as lavatories, sinks, and trays. NOTE: This report is the last of a series of three reports giving the results of an investigation of the problems involved in the proper venting of single plumbing fixtures re relatively small groups of such fixtures in dwellings. The first report, BMS-118: STACK VENTING OF PLUMBING FIXTURES is item (555) of this reading list and was published in January 1950; and the second is BMS-119: WET VENTING OF PLUMBING FIXTURES, item (556) of this reading list, which was published in December 1950. The investigation, the results of which are presented in these three reports, was first undertaken for the National Housing Agency in connection with the Veterans Emergency Housing Program of that Agency, and was continued and completed under the Housing Research Program of the Office of the Administrator, Housing and Home Finance Agency, as part of the research program of that Agency under its statutory authority.

(558) "NOISE IN DOMESTIC WATER SYSTEMS" by Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 15*, issued in September 1950, pages 17-22; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Tests; 2. Test Results; 3. Discussion; (a) Water hammer; (b) Cavitation; 4. Conclusion; and 5. References on water hammer. ABSTRACT. The Housing and Home Finance Agency sponsored an investigation by the College of Engineering, State University of Iowa, on some of the factors concerned with the development of operational noise in water piping systems. The results of the tests conducted during this study are reported in this article. Article is illustrated by six figures.

**(h) Septic Tanks  
and Other  
Sewage Disposal  
Systems**

(571) "INDIVIDUAL SEWAGE DISPOSAL SYSTEMS"—(a) Part 1, in *HHFA Technical Bulletin No. 7*, November 1948, pages 21-41. (b) Part 2, in *HHFA Technical Bulletin No. 10*, May-July 1949, pages 17-32. (c) Part 3, in *HHFA Technical Bulletin No. 11*, September-November 1949, pages 19-37. By scientific and engineering technicians on the staff of the U. S. Public Health Service; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: A few copies of *Technical Bulletin No. 7* are still available. Interested persons should address their requests to the Housing and Home Finance Agency, Washington, D. C. *Technical Bulletin No. 10*, sells for 20¢, and *Technical Bulletin No. 11* sells for 25¢. Copies are available from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. These articles are based on the study of individual sewage disposal systems, principally the septic tank soil absorption type; sponsored by the Housing and Home Finance Agency, as a part of its program under Title III of the Housing Act of 1948. The work was done by the United States Public Health Service at its Cincinnati Environmental Health Center and in the field. Part III concludes the report with the exception of Section C—"Study of Experimentally Operated Septic Tanks," and Section D—"Study of Septic Tanks in Field—Sludge and Scum Accumulations." These sections are published separately as *HHFA Technical Paper No. 14*: "Septic Tank Studies" for which see item (582) of this reading list.

(572) **INDIVIDUAL SEWAGE DISPOSAL SYSTEMS**—Recommendations of the Joint Committee on Rural Sanitation (For the members of this Committee, see the "Abstract" section, below); published by the Federal Security Agency, Public Health Service, Division of Public Health Methods, Washington, D. C., 1950,—vi plus 33 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

The work includes: 1. Statement of the Joint Committee; 2. Introduction; 3. Water Carriage Sewage Disposal Methods; (a) Plumbing system; (b) Grease interceptor; (c) Building sewer; (d) Septic tank; (e) Distribution box; (f) Subsurface disposal field; (g) Disposal trench construction; (h) Seepage pit; (i) Dry well; (j) Cesspool; 4. Nonwater Carriage Sewage Disposal Methods; (a) Earth pit privy; (b) Masonry vault privy; (c) Chemical toilet; (d) Pail or can type privy; (e) Cremating latrine or incinerator privy; 5. Diagrams; (a) Grease interceptor; (b) Single chamber septic tank; (c) Distribution boxes; (d) Subsurface disposal fields; (e) Subsurface disposal trenches and sand filter trench; (f) Seepage pit, dry well, and cesspool; (g) Sanitary pit privy; (h) Types of risers, vents, and seat assemblies; (i) Improved self-closing seat cover; and (j) Chemical toilet.

ABSTRACT. This is the first research report on the Household Sewage Disposal Project conducted by the Public Health Service and sponsored by the Housing and Home Finance Agency at the Environmental Health Center at Cincinnati, Ohio. It is Reprint No. 2461 from the Public Health Reports, published originally in 1943 and revised in 1947. A brief history of the Joint Committee follows: In June 1941, at the suggestion of various Government agencies interested in proper disposal of sewage and development of safe water supplies in rural areas, the Public Health Service sponsored the appointment of a Joint Committee to study the problems involved and develop a set of uniform recommendations to be followed by the agencies concerned. The Joint Committee on Rural Sanitation consisted of the following representatives when this report was published: Chairman, C. H. Atkins, Public Health Service; Secretary, John B. Thomas, Public Health Service; George R. Phillips, Harry L. Garver, S. P. Lyle, Carl A. Johnson, Clifford A. Betts, H. M. Bowman, E. L. Arnold, and George W. Misgrave, representing various Administrations in the U. S. Department of Agriculture; William H. Carey, Jr., Conference of Municipal Public Health Engineers; C. H. Atkins, Conference of State Sanitary Engineers; Leonard M. Board, and S. R. Weibel, of the Public Health Service, and Dr. Ray L. Hamon, of the Office of Education, Federal Security Agency; Laurence M. Shuman, of the Office of the Administrator, and James R. Simpson, of the Federal Housing Administration; Housing and Home Finance Agency; Robert N. Clark, Tennessee Valley Authority; A. G. Fiedler, Geological Survey, U. S. Department of the Interior; and William B. Mason, Jr., Veterans Housing Administration.

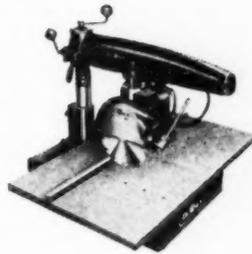
(573) **STUDIES ON HOUSEHOLD SEWAGE DISPOSAL SYSTEMS (PART I)** by S. R. Weibel, C. P. Straub, and J. R. Thoman (Sanitary Engineers) of the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, with the

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assistance of Jesse Cohen, F. E. Longan, E. C. Fosher and H. D. Ray. The work proceeded under the administrative direction of Sanitary Engineer Director H. W. Streeter and of his successor G. MacKenzie. Contributions to the study were also made by A. A. Solander, H. H. Better, P. Agnano, J. W. Shipp, W. Hamblett, C. H. Edwards, H. F. Clark, H. S. Tubiash, W. S. Griffiths, M. L. Guethlein, and F. Droegge. The project was sponsored by the Housing and Home Finance Agency, whose project technicians were Laurence Shuman, Fred McGhan and E. Hopkins; published by the Federal Security Agency, Public Health Service, Experimental Health Center, Cincinnati, Ohio, in 1949.—260 pages; price: not stated, but copies are free while supply lasts. Order copies from U. S. Public Health Service, Public Inquiries Branch, Room 5525, 4th and Independence Avenue, S. W., Washington D. C.

Includes a consideration of: 1. Introduction; (a) Authorization; (b) Objectives; (c) Start of work; (d) Informal advisory committee; (e) Progress reports; (f) This report; (g) Other work undertaken; (h) Acknowledgments; (i) Personnel; (j) Number of septic tanks in U. S.; 2. Summary; 3. Application of Research Results; 4. Review of Literature; 5. Experimental and Survey Studies; (a) Illinois study; (b) Kansas State College study; (c) Iowa State College experiments; (d) A.P.H.A. committee: 1933; (e) University of Minnesota experiment; (f) Victoria, Australia, survey; (g) Freezing studies; Ontario Agricultural College; (h) Soil studies—England; (i) Michigan Department of Health; (j) Massachusetts Department of Health; 6. Design Practice; (a) United States; (b) State recommendations; (i) House sewers; (ii) Septic tanks; (iii) Subsurface disposal system; (iv) Seepage pits; (v) Cesspools; (c) Design practice outside the United States; (i) Canada; (ii) England; (iii) India; (iv) Australia; (v) New Zealand; (vi) South Africa; (vii) Rhodesia; (viii) Germany; (ix) Poland; (x) Venezuela; (xi) Ecuador; (xii) Dominican Republic; 7. Survey of Controls and Practices in Some Local Health Units; 8. Study of Experimentally Operated Septic Tanks; (a) Foreword; (b) Introduction; (c) Analytical procedures; (d) Raw sewage; (e) Septic tanks; (f) Operating periods; (g) Sludge; (h) Seeding; (i) Feed schedule; (j) Feeding and sampling; (k) Composite; (l) Grab samples; (m) Temperatures; (n) Results; (o) Tank performance (p) Series I operation; (q) Suspended solids removal efficiencies—summary (r) Statistical summary solids removal; (s) Series II operations; (t) Series III operation; (u) Series IV operation; (v) Suspended solids removal, sludge in tank; (w) Series V operation; (x) Series VI operation; (y) Solids balance; (z) Sludge and scum accumulations; (aa) Color of effluents; (bb) B.O.D. removals; (cc) Sulfides; (dd) Ammonia; (ee) Grease; (ff) Chlorides; (gg) Inlet and outlet studies; (hh) Introduction of influent sewage through sludge; (ii) Effect of compartmentation; 9. Study of Septic Tanks in Field, Sludge and Scum Accumulations; (a) Introduction; (b) Geographical distribution inspections; (c) Distribution by tank types; (d) Inspection form; (e) Scope of this report; (f) Number of persons, bedrooms; (g) Water use; (h) waste disposal distribution; (i) Condition of structural materials; (j) Distribution of tanks by years of service; (k) Measurement of scum and sludge; (l) Examination of septic tank sludge and scum accumulation data; (m) Average trends, 205 household septic tanks; (n) Scum buoyancy; (o) Effect of type of waste on scum and sludge accumulation; (p) Effect of capacity; (q) Effect of liquid depth; (r) Effect of surface area; (s) Summary; 10. Laboratory Investigation of Sludge, Yeast as Starters; (a) Sludge as a starter; (b) Yeast as a starter; 11. Experimental Investigation Effect of Zeolite Softener Salts on Digestion; 12. Survey of Information on the Freezing Aspects of Household Sewage Disposal Systems; (a) Introduction; (b) Review of literature; (c) Recent case histories; (d)

Other contacts; (e) School system freeze-ups; (f) Poll of plumbers in northern areas; 13. Appendix A: Review of Literature; (a) Bibliography; (i) Chronological; (ii) Author index; (iii) Cuts of septic tanks; 14. Appendix B: Survey of Controls; (a) Circular letter; (b) Questionnaire; 15. Appendix C: Study of Experimentally Operated Septic Tanks; (a) Analytical procedures; (b) Scum volumes—Table 79; (c) Sludge volumes—Table 80; (d) Septic tank details; 16. Appendix D: Study of Septic Tanks in Field, Sludge and Scum Accumulation; (a) Instructions to field engineers; (b) Abbreviated tank identifications; (c) Instructions concerning survey data form; (d) Survey data form; (e) Percolation test procedures; (f) Percolation test data form; (g) Laboratory bench, form—field lab; (h) Scum measuring device—plate 41; (i) Sludge measuring device—plate 42; (j) Sample field survey report; 17. Appendix E: Survey of Information on Freezing; (a) Circular letter to plumbers; (b) Tabulation of plumber response.

**ABSTRACT.** The significance of the household sewage disposal system in the field of sewage disposal in the United States is amply reflected in the 17 million persons estimated as served by residential septic tank-soil absorption systems (as of 1949). With trends toward living in suburban fringe and rural non-farm areas, beyond reach device—plate sewer systems, the continued utilization of some type of individual residential sewage disposal is indicated. Difficulties with the operation of such systems, and attempts on the part of governmental agencies to find and utilize the best available information in this field, have brought out the need for a basic factual foundation. In order to establish the factual foundation necessary for effective design concepts for the use of governmental agencies as well as others concerned, the Housing and Home Finance Agency and the Public Health Service initiated a broad program of study of this problem, beginning the work in early 1947. This report, the first of a series, presents the findings on several of the individual topics undertaken to date under this program. Additional reports in the series will be prepared from time to time as the work progresses. (For Part II, see item (574) of this reading list.) In that the final significance of results on some of the individual elements, in relation to the system as a whole, cannot be determined until the facts on related elements, either now (1949) under study or to be undertaken later on, are known, caution should be exercised in the application of the piece-meal findings. The work contains many illustrative diagrams, graphs, charts and tables. The project was inaugurated in November 1946, through arrangement by conference and exchange of correspondence between representatives of the National Housing Agency, the Office of the Housing Expediter, and the Public Health Service, and the assignment of a working fund by the National Housing Agency to the Public Health Service for the conduct of the project. The project has been guided by the advice of an Informal Advisory Committee which met from time to time in Cincinnati, and which, at one time or another, included the following persons, as representatives of the agencies involved: L. Shuman, F. McGhan and E. Hopkins, of HHFA; Professors E. Boyce and R. King, of the University of Michigan; J. R. Simpson, of the Federal Housing Administration; R. Van Derwerker and K. Lauster of the Public Housing Administration; C. A. Betts, of the Forest Service; U. S. Department of Agriculture; L. M. Fisher, H. W. Streeter, and V. G. MacKenzie, of the Public Health Service.

(574) **STUDIES ON HOUSEHOLD SEWAGE DISPOSAL SYSTEM—PART II** by T. W. Bendixen (Soil Scientist), M. Berk (Chemist), and J. P. Sheehy and S. R. Weibel (Sanitary Engineers), of the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, with the assistance of J. M. Inskeep, J. R. Gibbons, H. D. Ray, N. McGuire, G. C. Kennedy, N. C. Settles, and E. C. Fosher. The work proceeded under the administrative direction of Sanitary Engineer Director V. G. MacKenzie. The project was jointly fi-

nanced by the Housing and Home Finance Agency and the Public Health Service equally. Project technicians for HHFA were Laurence Shuman, of the Office of the Administrator, and J. R. Simpson, of the Federal Housing Administration; published by the Federal Security Agency, Public Health Service, Environmental Health Center, Cincinnati, Ohio, 1950.—94 pages; price: 55¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Sponsorship; (b) Objectives under 1948 agreement; (c) Previous reports; (d) Personnel; (e) Informal advisory committee; (f) Current studies by others; 2. Summary; 3. Application of Research Results; 4. Septic Tank Compartmentation Studies; (a) Introduction; (i) Design practices; (A) United States; (B) England; (C) India; (D) Australia; (E) New Zealand; (F) Rhodesia; (G) Germany; (H) Poland; (ii) Experimental and survey investigations; (A) Illinois study; (B) Victoria, Australia, study; (b) Previously reported compartmentation studies (1949); (i) Description of tanks; (ii) Tank performance; (c) Continued study of compartmentation; (i) Methods; (A) Seeding; (B) Operation; (C) Sampling; (D) Composite samples; (E) Sludge measurement; (ii) Results; (c) Summary; (d) References; 5. Experimental Studies of Tank Inlets, Outlets and Intercompartment Apertures; (a) Introduction; (i) Inlets; (ii) Outlets; (iii) Intercompartment apertures; (b) Current study; (i) Description of tanks; (ii) Methods; (iii) Results; (A) Series A; (B) Series B; (C) One, two and three-compartment tanks; (c) Summary; 6. Field Studies of Possible Modifications of the Percolation Test Method; (a) Introduction; (b) Methods; (c) Results; (d) Summary; (e) References; 7. Examination of Field Survey Data—Absorption System; (a) Introduction; (b) Procedures; (c) Results; (i) Unconfined percolation test rates vs. effluent loading rates; (ii) Confined percolation rates out of tile field vs. confined percolation rates in tile field; (iii) Unconfined vs. confined percolation rates; (d) Summary; (e) Reference; 8. Permeability Conditions in Operating Tile Fields; (a) Introduction; (b) System selected for study; (c) Soils description; (d) Experimental methods; (e) Results; (f) Summary; (g) References; 9. Soil Clogging Effects of Septic Tank Effluents; (a) Introduction; (b) Methods; (c) Results and discussion; (i) Natural cores; (ii) Manually packed cores; (d) Summary; (e) Reference; 10. Appendix A: Septic Tank Compartmentation Studies; (a) Septic tank details, plates 24 through 29; 11. Appendix B: Soil Clogging Effects of Septic Tank Effluents; (a) Clogging rates as related to time, plates 30, 32, 33, 34; (b) Clogging rates as related to suspended solids, plates 31, 35, 36, 37.

**ABSTRACT.** See Abstract for item (573), above. The studies reported herein were initiated in November 1948, pursuant to an agreement between the Housing and Home Finance Agency and the Public Health Service, and are a continuation of the program of studies on household sewage disposal systems inaugurated November 1946 under the responsibility of the (then) National Housing Agency. In connection with the present study, the following members of an Informal Advisory Committee met in Cincinnati in February and April 1949: Laurence Shuman (HHFA); J. R. Simpson (FHA); C. A. Betts (Forest Service, U. S. Department of Agriculture); Professor E. Boyce (University of Michigan Septic Tank Study); and V. G. MacKenzie, A. H. Stevenson, and J. B. Thomas, of the Public Health Service. The report is illustrated by numerous graphs, diagrams, tables and charts.

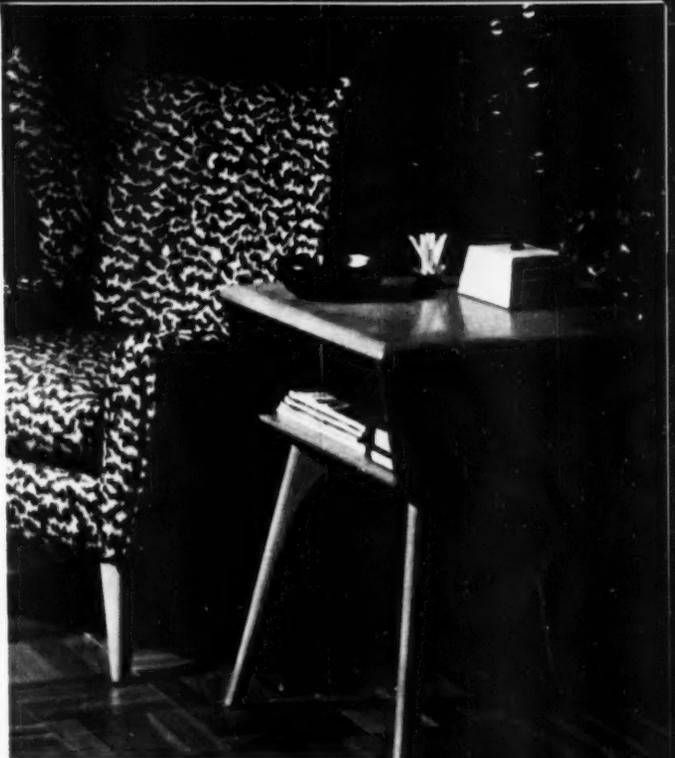
(581) **SEPTIC TANKS—THEIR USE IN SEWAGE DISPOSAL**—No author shown. But see names given below; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., December 1951, as "Housing Research Paper No. 18."—16 pages; price: 15¢. Order copies from Superintendent of

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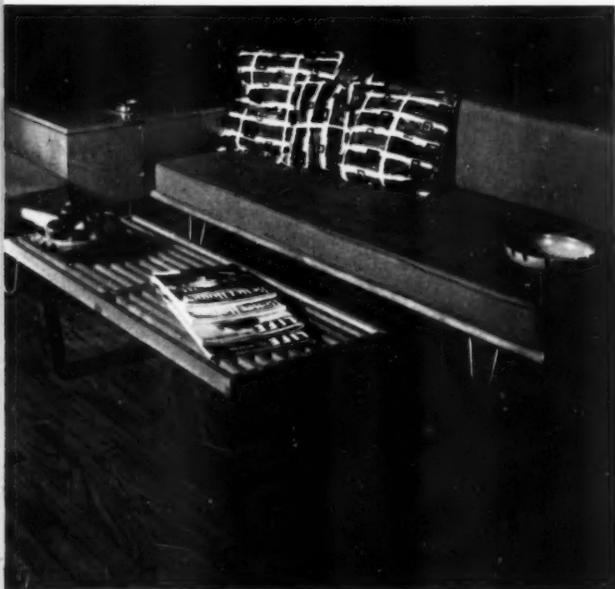
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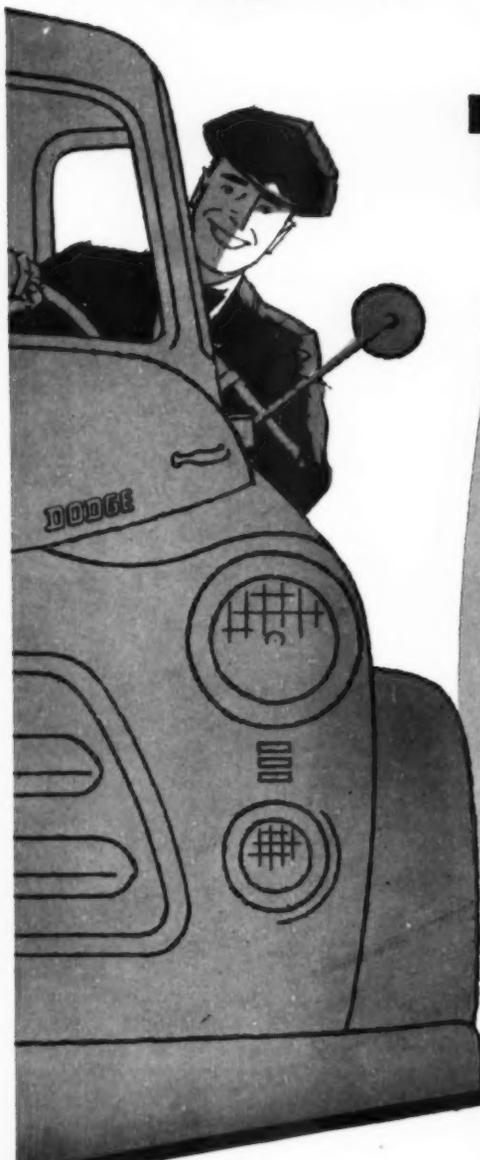
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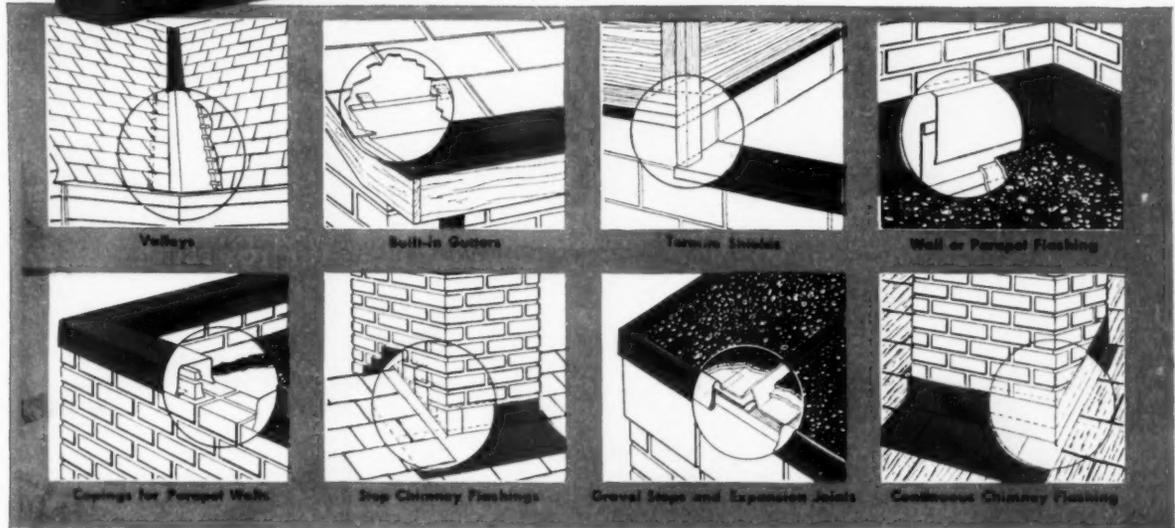
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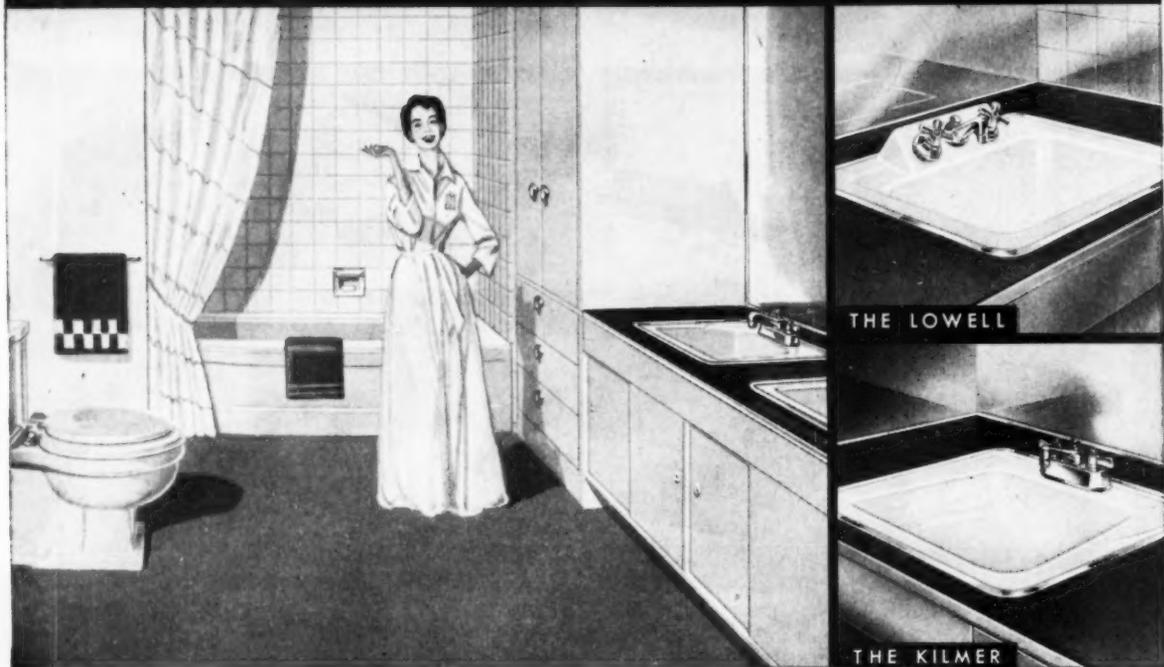
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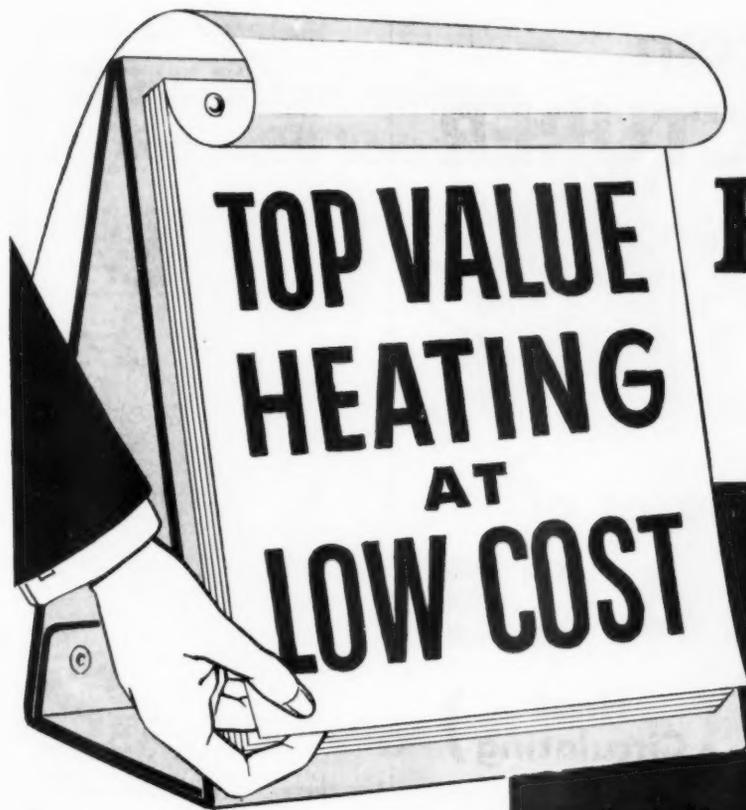
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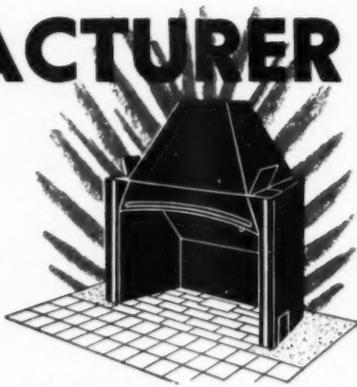
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Includes a consideration of: 1. Introduction; 2. Septic Tank and Disposal Field Action; 3. Summary of Results; 4. Discussion of Research Results; (a) Septic tank compartmentation; (b) Inlets, outlets, and intercompartment appurtenances; (c) Percolation test methods; (d) Absorption systems—final survey; (e) Absorption systems—Permeability conditions; (f) Soil clogging effects of septic tank effluents.

ABSTRACT. A substantial percentage of United States homes depends on septic tanks for sewage disposal. The need for highly efficient, economical septic tanks is increasing generally. In some areas of rapid urban growth related to new emergency expansion of industry the problem is expected to have special importance. This paper summarizes one phase of current research to meet this need sponsored by the Housing and Home Finance Agency and the Public Health Service of the Federal Security Agency, under H.H.F.A. research project ME-1. Laboratory and field work on the project are centered at the PHS Environmental Health Center at Cincinnati. Sanitary engineer S. R. Weibel is PHS project director. Mechanical engineers Laurence Shuman and Fred W. McGhan, of the Technology Branch, H.H.F.A. Division of Housing Research, are staff technicians for the project. The Federal Security Agency and H.H.F.A. initiated research on septic tanks under joint sponsorship following World War II. The first report of this program was published by P.H.S. as "Studies of Household Sewage Disposal Systems, Part I 1949," and by H.H.F.A. as a series of articles in *Technical Bulletin* Nos. 1, 4, 7, 10, 11, and 17, and *Technical Paper* No. 1, originally in 1950. P.H.S. published "Studies of Household Sewage Disposal Systems—Part II." These are included in the present reading list as items (573), (1221), (571), (583), (582), and (574).

(582) SEPTIC TANK STUDIES (INDIVIDUAL SEWAGE DISPOSAL SYSTEMS) by Laurence Shuman and Fred W. McGhan; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., as "Technical Paper No. 14," May 1950.—84 pages; price: Not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

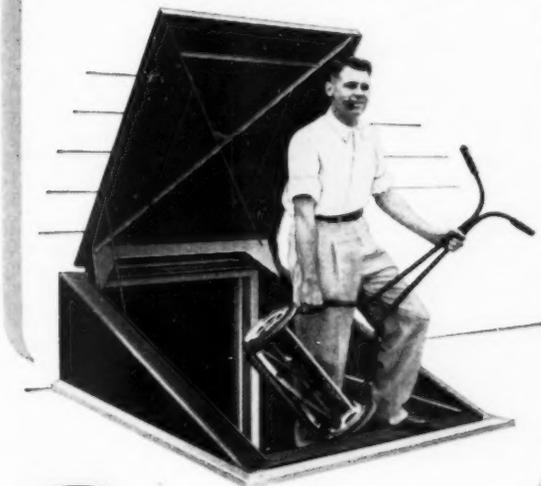
Includes a consideration of: 1. Foreword; 2. Experimentally Operated Septic Tanks; (a) Laboratory methods; (i) Analytical procedures; (ii) Raw Sewage; (iii) Septic tanks; (iv) Seed sludge; (v) Additional sludge; (vi) Feed schedule; (vii) Sampling; (viii) Composite samples; (ix) Grab samples; (x) Temperatures; (xi) Tank performance; (b) Testing operations; (i) Series I tests; (ii) Series II tests; (iii) Statistical summary; (iv) Series III tests; (v) Series IV tests; (vi) Series V tests; (vii) Series VI tests; (c) Analysis of data; (i) Sludge and scum accumulations; (ii) Biochemical oxygen demand; (iii) Sulfides; (iv) Ammonia determinations; (v) Grease; (vi) Chlorides; (vii) Introduction of influent sewage through sludge; (viii) Effect of compartmentation; (ix) Garbage disposal; (x) Color of effluent; (d) Summary and conclusions; 3. Study of Septic Tanks in Field: Sludge and Scum Accumulations; (a) Scope; (b) Number of persons, bedrooms; (c) Water use; (d) Waste disposal distribution; (e) Condition of structural materials; (i) Concrete; (ii) Concrete block; (iii) Vitrified tile; (iv) Brick; (v) Wood; (vi) Steel; (f) Distribution of tanks by years of service; (g) Examination of septic tank sludge and scum accumulation data; (i) Average trends; (ii) Scum buoyancy; (iii) Effect of type of waste on scum and sludge accumulation; (iv) Effect of capacity; (v) Effect of liquid depth; (vi) Effect of surface area; and (h) Summary.

ABSTRACT. A report (including 33 plates and 29 tables) which covers experimental work, test procedures, and performance data on various types of household septic tanks based upon research sponsored by the Housing and Home Finance Agency in collaboration with the Federal Security Agency, Public Health Service, at its Cincinnati Environmental Health Center.

(583) SEPTIC TANK SYSTEMS AND GARBAGE GRINDERS by

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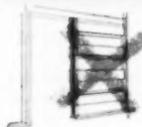
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Fred W. McGhan; in (H.H.F.A.) *Technical Bulletin No. 17*, issued in June 1951, pages 11-16; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington D. C.

Includes a consideration of: 1. Introduction; 2. Recommendations; 3. Experimental Tests; 4. Garbage Quantity and Composition; 5. Septic Tank Design Considerations; and 6. Summary.

**ABSTRACT.** The Division of Housing Research of the Housing and Home Finance Agency and the Public Health Service of the Federal Security Agency are conducting studies on household sewage disposal systems as a cooperative project at the PHS Environmental Health Center in Cincinnati. The first report of this program has been published by the PHS as "Studies of Household Sewage Disposal Systems, Part I, 1949," for which see item (573) of this list, and by the H.H.F.A. as a series of articles in *Technical Bulletin Nos. 1, 4, 7, 10, 11, and Technical Paper No. 14*, for which see items (1221), (571), and (582) of this reading list.

**(i) Garbage Grinders**

(591) "FOOD WASTE DISPOSAL UNITS." by Laurence Shuman; in *Housing Research*, October 1952, pages 41-56. Published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Nature of Tests; 3. Discussion and Summary; (a) Operating characteristics; (b) Effects on drainage system; 4. Units tested; 5. Test Apparatus and Procedures; (a) Pressure and flow conditions; (b) Effect of completely clogged drain; (c) Minimum rate of water flow; (d) Grease accumulation; (e) Self-siphonage; 6. Test Results; (a) Pressure and flow conditions in fixture drains; (b) Minimum rate of water flow; (c) Effect of water temperature on grease accumulation in drain; (d) Self-siphonage of traps; (f) With units installed but not running; (ii) With units installed and running; (iii) With units removed; (e) Size of ground particles; and (f) Photographs and tables. **ABSTRACT.** What effect do food waste disposal units have on plumbing systems? How should they be installed? The H.H.F.A. Division of Housing Research sponsored laboratory testing of typical units to obtain answers to some of these questions. The work was included as part of a research project on performance requirements for building sewer materials, and was done at the National Bureau of Standards, U. S. Department of Commerce, under the supervision of H. N. Eaton and R. S. Wyly.

**(j) Paint and Painting Techniques**

(601) SURFACE TREATMENT OF STEEL PRIOR TO PAINTING by Rolla E. Pollard and Wilbur C. Porter; Building Materials and Structures Report BMS 44; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 8, 1940.—17 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Pretreatments for Galvanized-Steel Surfaces; 4. Pretreatments for Plain-Steel Surfaces; 5. Methods of Testing; 6. Results of Tests; (a) Salt spray; (b) Accelerated-weathering tests; (c) Condensation corrosion tests; 7. Discussion of Results; 8. Summary and Conclusions; (a) Galvanized-steel panels; and (b) Plain-steel panels.

**ABSTRACT.** A number of surface-treatment processes are described for both plain and galvanized steel. Among such treatments subjected to accelerated weathering, salt spray, and condensation corrosion tests, the hot-dip phosphate-treatments for both plain and galvanized surfaces showed outstanding merit in improving the protective value of paints. Particularly effective protection was obtained when such treatments were used, under severely corrosive conditions, in combination with a primer of the inhibitive type. A phosphate coldwash for galvanized steel and two phosphate-chromate cold-wash treatments for plain steel also appeared to improve paint protection.

(602) PAINTING STEEL BY Wilbur C. Porter; Building Materials and Structures Report BMS 102; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 16, 1944.—12 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

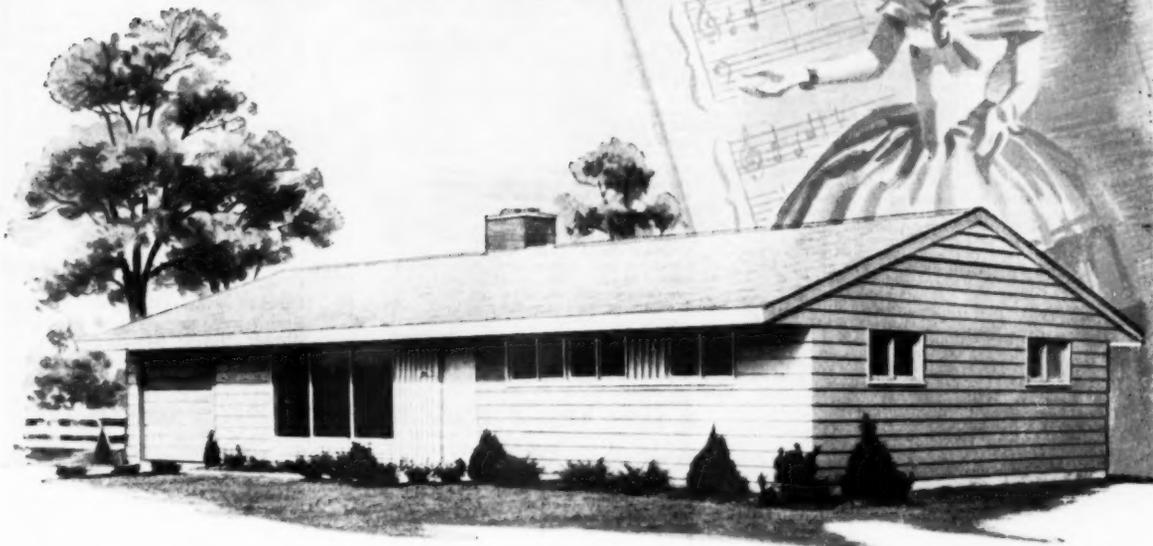
Includes a consideration of: 1. Introduction; 2. Priming-Coat Paints; 3. Painting Plain Steel Surfaces; (a) Preparation of the surface; (b) Results of accelerated weathering and outdoor-exposure tests of priming coats on plain steel; 4. Painting Galvanized-Steel Surfaces; (a) Preparation of the surface; (b) Results of accelerated weathering and outdoor-exposure tests of priming coats on galvanized steel; 5. Topcoat Paints; (a) Results of tests of topcoat paints; 6. Summary and Conclusions; and 7. Selected References. **ABSTRACT.** More than 60 priming paints for plain and galvanized steel surfaces were tested. Because some of these primings were duplicates or near duplicates and others were considered unsuitable, only 41 have been selected for this report. Accelerated laboratory and outdoor exposure tests were employed to determine the relative value of these primings when applied to treated and untreated galvanized and plain steel panels. Particularly effective protection against corrosion was observed when primings of the synthetic resin zinc chromate type were used over a phosphate-treated surface. Special attention was given to the effect of pretreating new galvanized steel before painting. More than 2,000 galvanized and plain steel panels were prepared for exposure in the various tests. The relative durability to outdoor exposure of 15 topcoat paints is also discussed.

(603) PAINT MANUAL WITH PARTICULAR REFERENCE TO FEDERAL SPECIFICATIONS by Percy H. Walker and Eugene F. Hickson; Building Materials and Structures Report BMS 105; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1945.—165 pages; price: \$1.00. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. General Comments; 3. Comments on Individual Materials; (a) General considerations; (i) Composition by weight and by volume; (ii) Basic specifications; (iii) Amendments to basic specifications; (b) Liquids not generally used alone; (c) Pigments; (d) Ready-mixed oil and varnish vehicle paints; (e) Varnishes and analogous products; (f) Water paints; (g) Miscellaneous materials used by painters; 4. Preparation of Surfaces and Application of Painting Materials; (a) Woodwork; (i) Exterior surfaces; (b) New work; (B) Refinishing; (i) Loose paint; (i) Knots; (ii) Additional measures for smoothing surfaces; (iv) Mildew; (v) Application of paint; (c) Staining of shingles and wood; (D)

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**ABSTRACT.** The need for information on protective coating materials in addition to that given in National Bureau of Standards Technologic Paper T274, published in 1925, has been expressed by various governmental agencies. Many changes in such materials have occurred since that publication, none out of print, was issued. Thus, this manual has been compiled to aid in the procurement of materials that would be suitable and adequate for most kinds of painting and that would assure successful application. The manual is based in large part on Federal Specifications and supplements but does not replace them. It presents recommendations by the National Bureau of Standards and cooperating organizations for the most effective use of painting materials meeting Federal Specifications. Chiefly non-technical in nature, the manual provides practical information for the application of protective coatings. It also explains recent developments in the field of painting and includes pertinent references. Descriptions of approximately 60 paints and paint products are included to enable the painter to choose the most suitable materials for the surface to be covered. Emphasis is placed on methods of applying coatings and preparing surfaces for obtaining maximum protection with the materials used. Where paint failures have occurred, the causes are traced and remedies suggested. The information contained herein cannot supplant the skill of the experienced painter, but should assist the procurement officer in specifying and obtaining the proper paint materials. It should also assist the planner and technical supervisor of work in obtaining and maintaining durable finishes at reasonable cost.

(604) **PAINTS FOR EXTERIOR MASONRY WALLS** by Clara Sentel; Building Materials and Structures Report BMS 110; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 15, 1947.—19 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Paints; (i) Cement-water paints; (ii) Resin-emulsion paints; (iii) Oil-base paints; (iv) Synthetic-rubber paints; (v) Whitewash; (b) Wall specimens; (i) General description; (ii) New common brick; (iii) Used common brick; (iv) Cast concrete; (v) Stone-concrete block; (vi) Cinder-concrete block; (vii) Lightweight-aggregate-concrete block; (viii) Cement-asbestos shingles; 3. Painting the Wall Specimens; (a) General procedure; (i) Preparation of the surface; (ii) Mixing of paints; (iii) Application of paints; (b) Cement-water paints; (c) Resin-emulsion paints; (d) Oil-base paints; (e) Synthetic-rubber paints; (f) Whitewash; 4. Painting the Field Office; 5. Test Results; (a) Basis of evaluation; (i) Appearance and durability; (ii) General ratings; (iii) Reflectance; (iv) Spreading rate; (b) Paints; (c) Wall specimens; (i) Performance of coatings on commonly painted surfaces; (ii) Performance of coatings on surfaces not usually painted; 6. Summary and Recommendations; and 7. Appendix. **ABSTRACT.** Data on the relative durability and performance of four general classes of masonry paints, cement-water, resin-emulsion, oil-base, and synthetic-rubber, and one whitewash, are given in this report. Out-of-door weathering tests were conducted to determine the serviceability of paints applied to wall specimens constructed of new and used common brick, cast concrete, stone-cinder-, and lightweight-aggregate-concrete block; and wood frame with cement-asbestos shingles. Formulas for the paints and erection of the wall sections are described, as well as methods for applying paint to the specimens. Ratings based on weathering characteristics and performance of each type of paint and evaluation of painting methods for coating different surfaces are given. Painted specimens which are discussed in detail in this report were exposed to atmospheric conditions in Washington, D. C., for a period of approximately three years. Results of the same tests for a 6-year period are shown graphically in the appendix. Conclusions are given for the conditions of test described. Durability of the paints was determined on the basis of type of paint used, type of surface coated, methods of application and curing, and conditions of casting and painting.

(605) **"ACCELERATED WEATHERING TEST OF TREATMENTS, PRIMING COAT AND FINISH PAINT FOR ALUMINUM SHEET METAL"** by Perry H. Petersen; in (I.I.F.A.) *Technical Bulletin No. 17*, issued in June 1951, pages 7-10; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Conclusions; 3. Description of Tests; (a) Test methods; (b) Preparation of panels; (c) Results of test exposure; 4. Recommendations for Painting Aluminum; (a) Cleaning; (b) Treatment; (c) Painting, finish coats; (d) Severe exposure conditions; (e) Miscellaneous; and 5. Acknowledgments.

(606) **"SELECTION OF DURABLE EXTERIOR WHITE HOUSE PAINT"** by William A. Russell; in *Housing Research*, March 1953, pages 17-31; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Paint Composition; 2. The Pigments; (a) Chemically active white lead and zinc oxide; chemically inert titanium dioxide and silicate extenders; 3. The Vehicle; (a) Drying oils such as raw or boiled linseed oil; (b) Bodied oils and resins; (c) Volatile thinners and driers; (i) Turpentine; (ii) Mineral spirits; 4. Modern Paint Formulas; 5. Priming Paint; 6. Guides for Selecting Good Paints; 7. Other Precautions; 8. Causes of Non-durability; 9.

Weather Conditions; 10. Preparation of New Wood Surface; 11. Application of Priming Coat; 12. Drying Time Between Coats; 13. Repainting; 14. Number of Coats; and 15. Conclusions. **ABSTRACT.** This paper distinguishes between water-filled blisters on painted surfaces, caused by moisture condensation, and the cracking, scaling, peeling, or excessive chalking of the paint due to the use of improperly formulated non-durable paint. The selection of durable exterior white paint is not difficult once a few basic paint principles are understood. The primary purpose of this article is (1) to outline the functions performed by the principal ingredients which make up modern ready-mixed exterior white paint, and (2) to provide formulas which may be used by the home owner or builder as a guide in selecting paint which will retain a good appearance and gradually weather away in such a manner as to make repainting less costly. Recommendations are based on a survey of trade-brand paints available on the market in 1950, and on extensive exposure tests and observations of houses made since 1922 at the Forest Products Laboratory, U. S. Department of Agriculture, Madison, Wisconsin. The survey was sponsored by the Housing and Home Finance Agency, the research being performed under the direction of F. L. Browne, Chief Chemist, Forest Products Laboratory.

(607) **SOLAR HEATING OF VARIOUS SURFACES** by Herman V. Cottony and Richard S. Dill; Building Materials and Structures Report BMS 64; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 23, 1941.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Test Procedure; 3. Specimens and Equipment; and 4. Results.

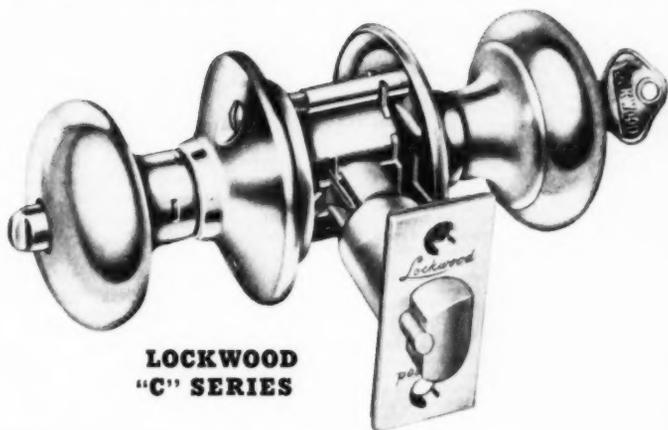
**ABSTRACT.** Measurements were made on the temperatures attained by a number of painted and other surfaces exposed to the sun, and it was found that surfaces covered with white or light-colored paint remained cooler under this condition than those covered with dark paint. A surface covered with glossy white paint was cooler than any other tried, while one covered with flat white paint was nearly as cool. A lamplack surface was the warmest of the surfaces tried, and one covered with green trim paint was nearly as warm. The temperature attained by surfaces painted with various shades of gray, yellow and ivory paint fell between those reached by the white and the green surfaces. Three colors of commercial roll roofing material—aluminum, green, and red—were tried, and all attained temperatures practically as high as the green or the lamplack surfaces. A surface covered with aluminum foil was cooler than another covered with aluminum paint but was considerably warmer than the white painted surfaces.

## (k) Heating Systems, Equipment and Techniques

(621) **PERFORMANCE OF A COAL-FIRED BOILER CONVERTED TO OIL** by Richard S. Dill and Paul R. Achenbach; Building Materials and Structures Report BMS 111; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 20, 1948.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

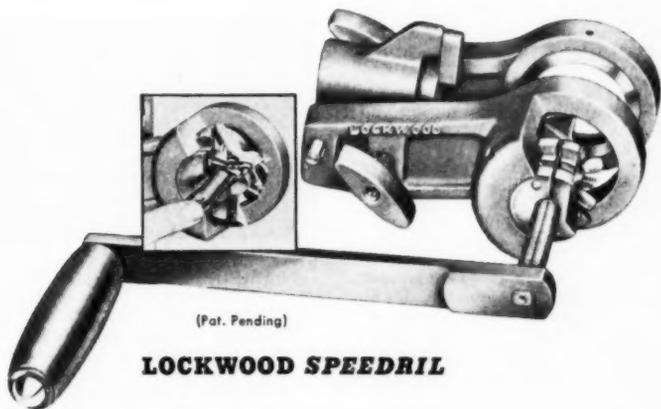
Includes a consideration of: 1. Introduction; 2. Specimen and Test Equipment; 3. Procedure; 4. Test Results on Combustion Chambers; 5. Boiler Performance with Baffles; 6. Discussion and Conclusions; and 7. References.

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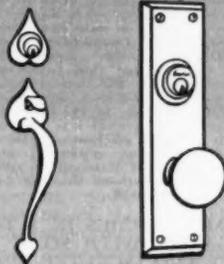
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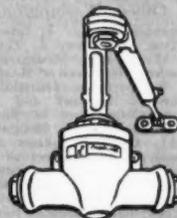


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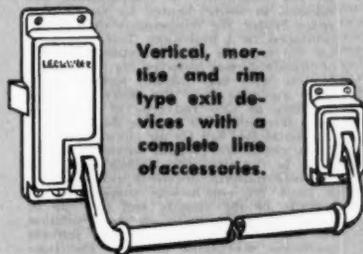


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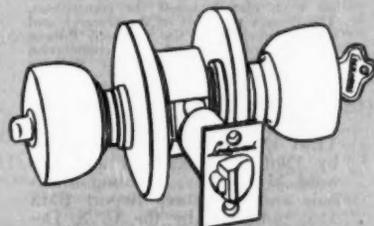
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**ABSTRACT.** Many coal-fired boilers are converted to the use of fuel oil each year to obtain the greater convenience of liquid fuel. Converted coal-fired boilers are usually not as efficient as boilers originally designed for fuel oil since the efficient combustion of coal requires more combustion space and larger gas passages through the boiler than does liquid fuel. The tests described in this report were made to show the advantage of using a precast lightweight combustion chamber instead of one made of standard firebrick for the oil burner and to evaluate the increase in capacity obtained with two types of cast-iron baffles. The report discusses the performance of a cast-iron boiler designed for coal firing after it had been converted to the use of oil by means of a gun-type burner. It is shown that a refractory firebox of low heat capacity and low thermal conductivity increased the efficiency of the converted boiler several percent, and that baffles which effectively direct the hot combustion gases over the heat-transfer surface increased the capacity of the boiler up to 27 percent. The project was part of the research program on heating plants for small homes being conducted at the National Bureau of Standards in collaboration with the National Housing Agency and its technical staff.

- (622) **TEMPERATURES IN A TEST BUNGALOW WITH SOME RADIANT AND JACKETED SPACE HEATERS** by Paul R. Achenbach; Building Materials and Structures Report BMS 114; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 28, 1949.—44 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. The Test Bungalow; 3. Test Specimens; 4. Temperature Measurements; 5. Test Procedure; 6. Effect of Heater Location on Temperature Distribution; 7. Comparison of Radiant and Jacketed Heaters; 8. Comparison of Jackets; 9. Effect of Heater Size; 10. Height of Heat Source; 11. Open Transoms over Interior Doorways; 12. Effect of Outside Temperature on the Temperature Distribution; 13. Effect of Circulating Fan; 14. Performance of Space Heaters with Integral Fans; 15. Underfloor Return Plenum; 16. Effect of Insulation under the Floor Joists; 17. Radius of Warmth Attainable with a Space Heater; 18. Mean Radiant Temperatures; 19. Summary and Conclusions; 20. Selected References; and 21. Appendix.

**ABSTRACT.** To provide additional data on the uniformity of temperatures obtainable in houses heated by means of a space heater, the temperature distribution produced in a four-room Test Bungalow on the grounds of the National Bureau of Standards was observed for three space heaters with and without jackets. Tests were made to show the effect of heater location, of size and type of jacket, of open transoms over interior doorways, of an unattached fan for air circulation, and of an underfloor plenum on the temperatures in the four-room house. The temperature patterns obtained were used as a basis for conclusions concerning the severity of the climate and the size of houses of similar materials and insulation for which space heaters could provide minimum acceptable comfort. The temperature distributions for two commercial models of space heaters burning gas and oil were also included for comparison. The project was part of the research and testing program at the National Bureau of Standards conducted in cooperation with the Housing and Home Finance Agency and its technical staff.

- (623) **A STUDY OF A BASEBOARD CONVECTOR HEATING SYSTEM IN A TEST BUNGALOW** by Paul R. Achenbach and Edward M. Tierney; Building Materials and Structures Report BMS 115; published by the U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 1, 1949.—20 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Test Equipment; a. The Test Bungalow; b. Insulated Enclosure; c. Heating System; d. Controls; e. Temperature Measurements; 3. Test Procedure; 4. Temperature Distribution; 5. Heat Loss; 6. Room Temperature Controls; 7. Pick-up Characteristics; 8. Heat Emission of Convector; 9. Discussion and Conclusions; 10. References; and 11. Glossary of Selected Heating Terms.

**ABSTRACT.** The increase in construction of small houses without basements has resulted in efforts to provide heating systems that will produce comfort in such houses when the heater is located on the first floor. A recently developed distribution system that uses finned piping adjacent to all the exterior walls of a house at the baseboard level appears to offer greater comfort near the floor of basementless houses than some other systems now in use. The tests described in this report were made to determine the temperatures produced at several levels above the floor with one form of baseboard heating system and to study the characteristics of two types of room-temperature controls with that kind of heating system in a partially insulated frame house. The project was part of the research program carried on at the National Bureau of Standards in cooperation with the Housing and Home Finance Agency and its technical staff. In these tests the temperature distribution produced by a baseboard convector heating system was observed in a 4-room Test Bungalow on the grounds of the National Bureau of Standards. The distribution system consisted of finned sections of iron pipe placed beneath the windows, standard iron pipe connecting the finned elements in a continuous loop around the house at the baseboard level, and a hot-water boiler located on the first floor. The vertical temperature differences, room-to-room temperature differences, heat loss of the house, and the heat emission per unit length of finned pipe were observed for a range of outside air temperatures. In addition, the control of room temperature provided by an electric room thermostat and by an outdoor-thermostat control and modulating water-flow valve were compared for steady outside air temperatures. The characteristics of the outdoor-thermostat control and modulating water-flow valve were also studied for transient outside air temperatures and under pick-up conditions indoors.

- (624) **PERFORMANCE OF MASONRY CHIMNEYS FOR HOUSES** by Robert K. Thulman (For the names of other contributors, see below); published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., as "Housing Research Paper No. 13," (Revised and Reprinted from "Technical Paper No. 13," August 1949), November 1952.—46 pages; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; (a) Fire Loss Statistics; (b) The "Standard Ordinance Chimney"; (c) Scope of Chimney Test program; 2. Chimney Performance Requirements; (a) Theoretical draft; (b) Variables in draft; (c) Temperature; (d) Flue gas temperature standards; (e) Temperatures attained in practice; (f) Condensation in flue gases; (g) Effect of condensation; (h) Summary of chimney requirements; 3. Code Practices—Required and Permitted; (a) Minimum area of flue; (b) Flue size based on area of smoke outlets; (c) Flue dimensions; (d) Revised requirements; 4. Tests; (a) Comparison of 9" x 9" and 9" x 13" flues; (b) Observed and calculated drafts; (c) Flue gas flow rates; (d) Temperature in breeching vs. temperatures in flue; (e) Effects of flue size and flue gas volume; (f) Temperature in breeching vs. temperature at base of stack; (g) Effect of draft stabilizers; (h) Dissipation of heat; (i) Comparative tests on four 15-foot masonry chimneys; (j) Round flue vs. rectangular flue; (k) Drafts produced; (l) Comparison of temperatures; (m) Effect of internal surface area; (n) Fire hazard tests; (o) Comparison of lined and unlined chimneys; (p) Tests of lined chimneys; (q) Time-temperature tests; (r) Criteria for safety; 5. Conclusions; and 6. Recommendations.

**ABSTRACT.** A report covering procedures and results of tests of the perform-

ance of masonry chimneys in regard to draft characteristics and the protection afforded against fire hazards. The laboratory research forming the basis for this report was performed under the Standardized Building Codes and Materials program of the Housing and Home Finance Agency under agreement with the National Bureau of Standards, U. S. Department of Commerce. The original (August 1949) edition of this publication was prepared under the supervision of Leonard G. Haeger, Director, Division of Standardized Building Codes and Materials, and Laurence Shuman, Chief of the Mechanical Engineering Section, E. S. Dill and N. D. Mitchell supervised the research work on the project at the National Bureau of Standards, under the direction of Douglas E. Parsons, Chief, Building Technology Division.

- (625) **"METALS SAVING TRENDS IN DOMESTIC HEATING"** by Robert K. Thulman; in *Housing Research*, Winter 1951-1952, pages 1-6. Published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Trends in House Size and Design; (a) House size and type; (b) Trends in glass area; 2. Trends in Construction; (a) Increased use of insulation; (b) Floor construction; (c) Metal saving through insulation; 3. Heating Fuel Trends; (a) Heating fuel affects metals use; 4. Heating Methods Trends; (a) Systems affect amount of metal; (b) Comfort as a factor in choice of systems; (c) Recently developed systems; and 5. Conclusions.

**ABSTRACT.** Domestic heating systems account for a major part of the metals normally used in home building. Metals are scarce during an emergency. Results of the IHFA Materials Use Survey permit a comparison between metals used in house heating in 1950 with their use for this purpose a decade earlier. This article examines trends in domestic heating revealed by this comparison, as they bear directly on contemporary problems of metals conservation.

## (I) Moisture Resistance, Insulation and Vapor Barriers

- (641) **"DURABILITY OF MOISTURE-RESISTANT MEMBRANE MATERIALS IN CONTACT WITH THE GROUND"** by William A. Russell; in *Housing Research*, October 1952, pages 23-28; published by Housing and Home Finance Agency, Washington, D. C.; price: 30¢. This article alone is available for 5¢ as I.H.F.A. Technical Reprint No. 15. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

This article summarizes recently completed research regarding the durability of roofing felt and roll roofing when used for waterproofing membranes in contact with the ground where they are subject to rot fungi commonly associated with damp soil. Conclusions reached are that unprotected 15-lb. asphalt-saturated roofing felt in contact with the ground, either as soil cover in a crawl-space house or as a membrane under a slab-on-the-ground floor, would be destroyed by the fungi in a few years. Roll roofing, on the contrary, which is heavily impregnated and coated with asphalt, would be expected to provide an effective and durable membrane for many years with little or no increase in cost. The research was conducted under an IHFA research contract by the Bureau of Plant Industry.

Soils and Agricultural Engineering, U. S. Department of Agriculture, at the Forest Products Laboratory, Madison, Wisconsin, in cooperation with the National Bureau of Standards, U. S. Department of Commerce. The article includes a consideration of: 1. General Approach; 2. Details of Specimens; 3. Test Procedure; 4. Culture Apparatus; 5. Fungi; 6. Feeder Blocks; 7. Test Period; 8. Observations; 9. Significance of Tests; 10. Membrane Requirements in Crawl Spaces; 11. Recommendation; 12. Membranes Under Slab-on-Ground Floors; 13. New Membrane Developments; 14. Recommendations; 15. Cost; and 16. Acknowledgments.

- (642) "PREVENTION OF DAMPNESS IN BASEMENTS" by Perry H. Petersen; in *Technical Bulletin No. 14*, pages 15-21; published May-July 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. This paper alone is available for 10¢ as H.H.F.A. Technical Reprint No. 11. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Forms of Dampness; (a) Leakage; (b) Capillarity; (c) Condensation; 2. Causes of Dampness; (a) Improper drainage; (b) Poor masonry; (c) Improper or imperfect waterproofing; (d) Inadequate insulation; (e) High humidity; 3. Precautions During Construction; (a) Selection of site; (b) Surface drainage; (c) Sub-grade drainage; (d) Water-resistant construction; (e) Waterproof construction; (f) Insulation; (g) Miscellaneous; 4. Remedies After Construction; (a) General; (b) Ventilation; (c) Heating; (d) Dehumidification by chemicals (hygroscopic materials); (i) Non-reusable materials; (A) Calcium chloride; (B) Lithium chloride; (ii) Reusable materials; (A) Silica gel; (e) Mechanical refrigeration dehumidifiers; and 5. Recommendations. The article is illustrated with three figures representing sub-grade drainage; water-resistant construction; and waterproofed construction.

- (643) "WATER VAPOR TRANSMISSION OF BUILDING MATERIALS USING FOUR DIFFERENT TESTING METHODS" by Ralph R. Britton and Robert C. Reichel; in *Technical Bulletin No. 12*, pages 13-15; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Definitions; 3. Description of Materials; 4. Conditions of Exposure; 5. Results and Discussion; and 6. Conclusions.

ABSTRACT. Due to the existence of a large number of test methods for determining the water vapor transmission rates of materials and the fact that these methods differ widely in the conditions of exposure and the terminology used in expressing results, a great deal of confusion and misunderstanding have resulted among those engaged in building construction practices. The purpose of this investigation was to determine the degree of correlation between four different test methods believed suitable for determining the water vapor transmission of building materials used for dwelling construction.

- (644) "REPORT ON TESTS FOR CONDENSATION ON REFLECTIVE INSULATION UNDER WOODEN FLOOR" by Laurence Shuman; in *Technical Bulletin No. 12*, pages 9-12; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

ments, U. S. Government Printing Office, Washington, D. C.

ABSTRACT. This report describes tests made at the National Bureau of Standards, U. S. Department of Commerce, to determine whether, and under what conditions, condensation would form in air spaces where reflective insulation was installed below a wood floor laid over a crawl space. It includes a diagram of the test box showing arrangement of the apparatus.

- (645) "WATER VAPOR RESISTANCE OF BUILDING MATERIALS" by Ralph R. Britton and Robert C. Reichel; in (H.H.F.A.) *Technical Bulletin No. 11*, issued September-November, 1949, pages 7-13; published by the Housing and Home Finance Agency, Division of Standardized Building Codes and Materials, Washington, D. C.; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Definitions; (a) Vapor barrier; (b) Breathing paper; (c) Standard atmospheric test conditions; (d) Dry test method; (e) Wet test method; 3. Test Methods; 4. Facilities for Testing; 5. Standards of Quality; 6. Identification; 7. Breathing type materials; (a) Red rosin sheathing paper; (b) Spaced wood sheathing; (c) Stucco; (d) Class D building paper; 8. Vapor barrier materials; (a) Asphalt-treated building papers; (b) Asphalt-laminated building papers; (c) Mounted metal foils; (d) Paint; (e) Washable specialty wall coverings; (f) Class A and Class B building papers; 9. Specific List of Breathing Type Materials; and 10. Specific List of Vapor Barrier Materials.

ABSTRACT. This paper elaborates and clarifies on specific items necessary for the construction industry to make use of material in the condensation control field.

## (m) Electrical Wiring

- (661) "ASPECTS OF ELECTRICAL CONDUIT INSTALLATIONS IN HOUSES" by Jefferson D. Brooks; in *Technical Bulletin No. 12*, pages 1-7; published in January 1950 by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Fittings; 2. Bends; 3. Miscellaneous Requirements; 4. Example of Selection of Wire-Carrying Capacity; 5. Number of Wires in a Conduit; and 6. Example of a Conduit Size Selection.

ABSTRACT. The purpose of this article is to point out minimum requirements for the safe installation of steel conduits commonly used in houses, especially those of fire-resistive construction. Methods of selecting conduit sizes for various combinations of wires are included.

- (662) "LOW-COST WIRING METHODS AND MATERIALS FOR HOUSES" by Jefferson D. Brooks; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 17-28; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Open Wiring on Insulators; 2. Concealed Knob-and-Tube Work; 3. Armored Cable; 4. Non-

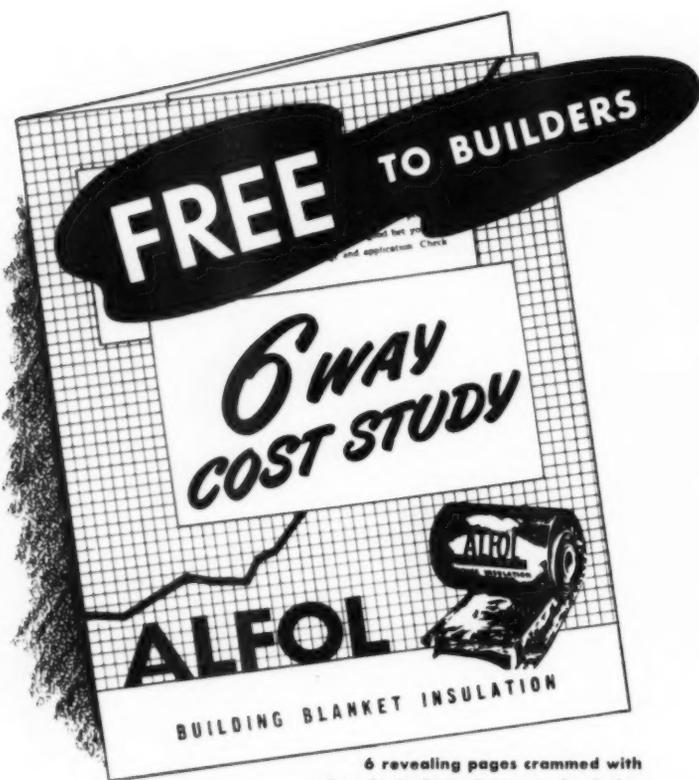
metallic Sheathed Cable; 5. Service-Entrance Cable; 6. Nonmetallic Waterproof Wiring; 7. Surface Metal Raceway; 8. General Requirements for Wiring Methods; 9. Conductors; 10. Outlet and Switch Boxes; 11. Switches; 12. Receptacles; and 13. Wall Plates.

ABSTRACT. The purpose of this article is to point out minimum requirements for the safe installation of flexible, metal-armored cable systems, nonmetallic wiring systems and surface metal raceway systems for use in houses of ordinary construction. The article is illustrated by ten figures.

## (n) Fire Resistance of Materials

- (681) FIRE RESISTANCE CLASSIFICATIONS OF BUILDING CONSTRUCTIONS—Report of the Subcommittee on Fire-Resistance Classifications of the Central Housing Committee on Research, Design, and Construction, Chairman of the Subcommittee: John W. Dunham, Public Buildings Administration; Building Materials and Structures Report BMS 92; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 7, 1942.—70 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. A Fire-Resistance Classification of Building Types; (a) Types of construction; (i) Fireproof construction; (ii) Incombustible construction; (iii) Exterior-protected construction (iv) Wood construction; (b) Fire severity; (c) Fire-resistant ratings; 3. Restrictions and Limitations in their Relation to Types of Construction; (a) Location with respect to fire zones; (b) Restrictions based on height of building (by the four types of construction); (c) Restrictions on location with respect to common property lines or adjacent buildings construction; (d) Restrictions based on area of building (by the four types of construction); (e) Restrictions on type of materials in building members and building finish; (f) Restrictions based on degree of fire resistance of structural members; (g) Restrictions based on occupancy; 4. Survey of Combustible Contents of Buildings; 5. Fire-Resistance Ratings for Building Construction and Materials; (a) Fire-resistance ratings for load-bearing masonry walls; (i) Test conditions; (ii) Sources of data; (iii) Extension and interpolation of test results; (iv) Effect of plaster; (v) Combustible members framed into wall; (vi) Fire-resistance ratings; (b) Fire-resistance ratings for masonry partitions; (i) Test conditions; (ii) Sources of data; (A) Magnesium oxysulfate wood-fiber blocks; (B) Hollow glass blocks; (C) Gypsum blocks; (D) Structural clay tile; (E) Hollow concrete units; (iii) Fire-resistance ratings; (c) Fire-resistance ratings for steel-framed partitions and steel-framed brick-veneered walls; (i) Test conditions; (ii) Sources of data; (iii) Plaster; (iv) Fire-resistance ratings; (d) Fire-resistance ratings for wood-and-metal-framed partitions; (i) Test conditions; (ii) Sources of data; (iii) Interpolation of test results; (iv) Framing; (A) Wood framing; (B) Metal-framed hollow partitions; (C) Metal-framed solid partitions; (v) Fire-stopping; (vi) Mineral-wool fill; (vii) Board facings and plaster bases; (viii) Plaster; (ix) Fire-resistance ratings; (x) Partition facings as fire-protective finishes over wood framing; (e) Fire-resistance ratings for walls and partitions with cement-asbestos facings; (i) Test conditions; (ii) Sources of data; (iii) Firestopping; (iv) Fire-resistance ratings; (v) Facings as fire-protective finishes over wood framing; (f) Fire-resistance ratings for prefabricated and built-up partitions; (i) Test conditions; (ii) Sources of data; (iii) Assembly of prefabricated wood panels; (iv) Flame-proofing; (v) Load-carrying ability of



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resistance ratings for prefabricated and built-up and prefabricated wood or steel partitions; (g) Fire-resistance ratings for columns; (i) Test conditions; (ii) Effect of plaster; (iii) Sources of data; (A) Timber columns; (B) Round cast iron columns; (C) Steel pipe columns; (D) Structural steel columns (unprotected); (E) Structural steel (solid section) partly protected with concrete; (F) Structural steel (lattice) partly protected with concrete; (G) Structural steel solidly protected with concrete; (H) Structural steel protected with hollow tile and concrete; (I) Structural steel protected with hollow tile; (J) Structural steel protected with brick; (K) Structural steel protected with hollow cinder concrete blocks; (L) Structural steel protected with plaster; (M) Structural steel protected with gypsum; (N) Reinforced concrete columns; (iv) Fire-resistance ratings; (h) Fire-resistance ratings for floor constructions; (i) Test conditions; (ii) Source of data; (iii) Plaster; (iv) Fire-resistance ratings for wood-joint floors; (v) Fire-resistance ratings for steel-joint floors; (vi) Fire-resistance ratings for steel-plate floors; (vii) Fire-resistance ratings for cellular steel floors; (i) Fire-resistance classification of roof coverings; (i) Basis of classification; (ii) Sources of data; (iii) General requirements; (iv) List of acceptable roof coverings; (A) Built-up roof coverings; (B) Prepared roof coverings; 6. Appendix A: Summary of Restrictions and Limitations in Six Typical Building Codes Based on Types of Construction (NOTE: The building codes studied are those for New York City, Boston, Minneapolis, Atlanta, Denver, and Seattle); (a) Classifications; (i) Classification of structure by type of construction; (ii) Classification by occupancy; (b) Location with respect to fire zones; (i) Number of zones, including an unrestricted area; (ii) Restrictions and limitations; (c) Permissible spacing from adjacent construction or property lines; (d) Permissible heights and areas of buildings; (e) Permissible materials; (f) Required degree of fire resistance of structural members; (g) Permissible occupancies; (h) Discussion of current building code restrictions in their relation to types of construction; (i) Classification of buildings by type of construction; (ii) Occupancy classifications; (iii) Fire zoning; (iv) Spacing from adjacent construction or property line; (v) Height and area limitations; (vi) Permissible materials; (vii) Required fire resistance; (viii) Permissible occupancies; 7. Appendix B: Methods of Estimating Fire-Resistance Periods; (a) General method of estimating the ultimate fire-resistance periods of walls and partitions; (b) General method of estimating the ultimate fire-resistance periods of columns; (i) Protected metal columns; (ii) Reinforced concrete columns; (c) Applications made in the present report.

**ABSTRACT.** A classification of building construction from the standpoint of fire safety is presented by a committee of representatives of Federal agencies concerned with the design, construction, and operation of buildings. By considering only the basic properties having a bearing on fire hazard and fire resistance, four types were found sufficient to cover the whole range of building construction. Within each type are two or more classes which are defined by the fire resistance required for their structural members. In chapter I this classification is outlined and information given on how it can be applied with reference to the fire severity obtaining for given structural and occupancy conditions. Chapter II contains a discussion of the types of restrictions and limitations generally incorporated in building codes, with particular reference to their application to the classification of building types herein presented. Chapter III gives results of surveys of combustible contents of buildings housing typical occupancies as a basis for estimation of fire severity. In Chapter IV are given available fire-resistance ratings of building constructions and fire-resistance classifications of roofing materials. The report should be of value in presenting building classifications and pertinent related data on the basis of which restrictions on size, location, and structural components of buildings can be applied to give a required degree of safety with the economical use of a wide range of acceptable materials.

(682) TESTS OF STEEL COLUMNS PROTECTED WITH SILICEOUS AGGREGATE CONCRETE by Nolan D. Mitchell; Building



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Materials and Structures Report BMS 124; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 25, 1951.—12 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; 3. Construction of Columns; 4. Equipment and Method of Testing; 5. Results of Tests; and 6. Summary and Discussion.

ABSTRACT: Results of fire-endurance tests of four 6-in. steel H-columns protected with concrete made with highly siliceous aggregates are presented. (The term "siliceous" as used herein conforms to the usage in building codes in which it is construed to embrace the minerals composed wholly or largely of quartz, chert, flint, etc.) The concrete was of 2-in. thickness around the column shaft and filled the reentrant spaces. The aggregates investigated were river gravel and crushed quartz. The columns were subjected to load throughout the tests. The loads on three columns of magnitude as computed by a standard formula for allowable load were constant. One column sustained a double load throughout the earlier part of the test. The fire-endurance limits ranged from 2 hr 50 min for a column with crushed quartz aggregate concrete to 3 hr 34 min for one with gravel aggregate concrete. The results were consistent for columns protected with gravel aggregate concrete, and within reasonable limits for columns covered with quartz aggregate concrete. The results of the column tests with respect to lack of spalling of the concrete were confirmed by tests on concrete wall slabs made with the same or like aggregates. The fire-endurance limits of protected columns described in this report may serve as a guide for the selection of constructions to meet building code requirements, and as a measure of the extent of compliance of building practice with existing codes.

(683) FIRE RESISTANCE OF SHUTTERS FOR MOVING STAIRWAY OPENINGS by Nolan D. Mitchell, Edward D. Bender, and James V. Ryan; Building Materials and Structures Report BMS 129; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 1, 1952.—9 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Construction; 3. Test Method and Equipment; a. Floor-Test Furnace; b. Temperature Measurements; 4. Results; 5. Summary and Conclusions; a. Resistance of Shutter; b. Effects of Thermal Expansion; c. Effectiveness of Design Changes made for Test B; d. Passage of Hot Gases; and e. General Comments.

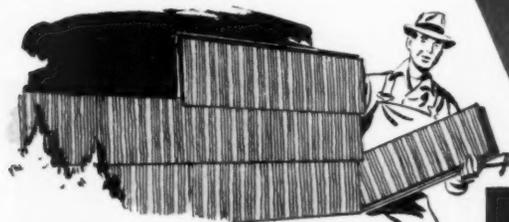
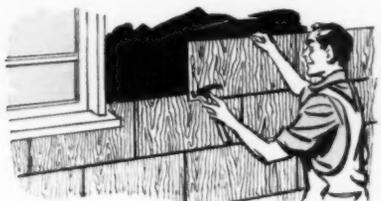
ABSTRACT: The results of one exploratory and two full-scale fire-endurance tests on flexible rolling shutters for closing moving stairway openings are given. The test specimens in the latter two tests included the balustrading of a normal installation. The shutters were made of galvanized steel slats moving on rollers and were of the same design in all the tests. The shutters could be operated by hand or by power drive. The results of the fire-endurance tests indicated that the first full-scale installation design was not satisfactory because of distortions due to differential expansion of the guide rails and other structural parts. The second design, with modifications to provide for the expansion of structural parts without undue distortion, proved adequate for 3-hr fire resistance. As moving stairways are used extensively in commercial buildings in which unprotected openings through floors might permit the passage of fire with disastrous results, the information contained in this report should be of interest to architects, the building industry, and regulatory bodies concerned with specifications or building-code requirements pertaining to moving-stairway installations.

(684) FIRE TESTS OF STEEL COLUMNS ENCASED WITH GYPSUM LATH AND PLASTER

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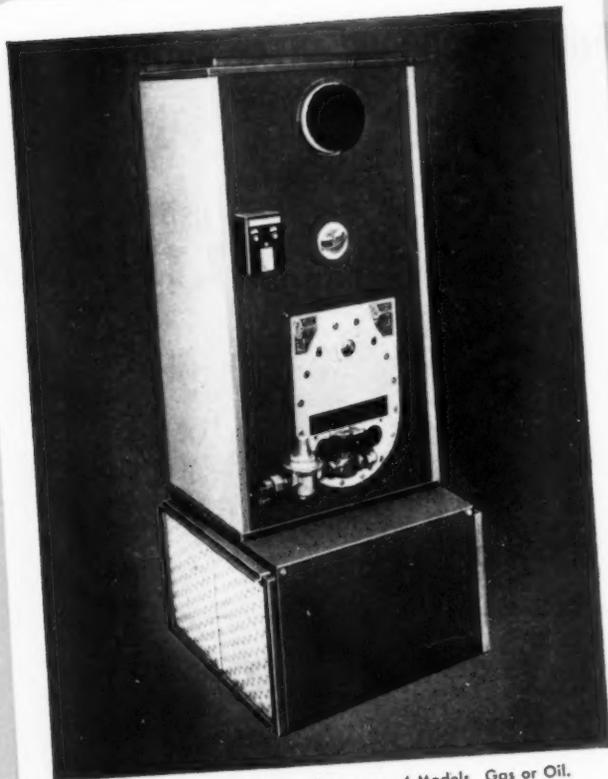


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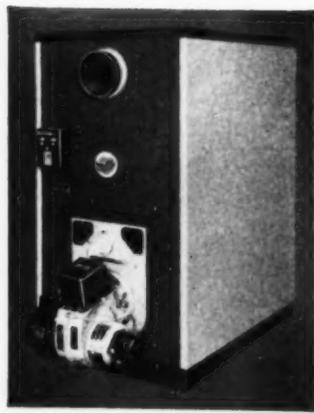
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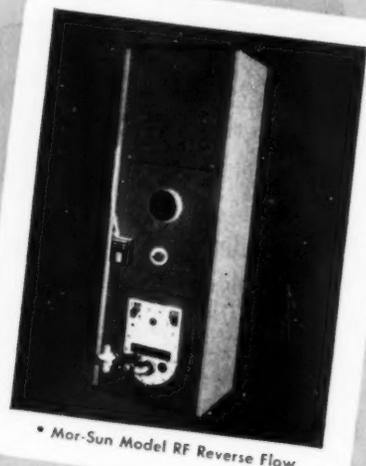
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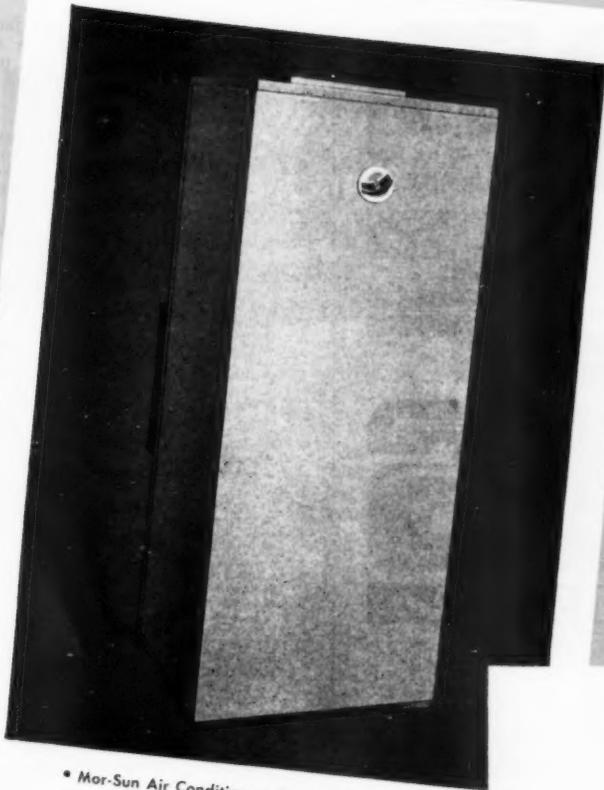
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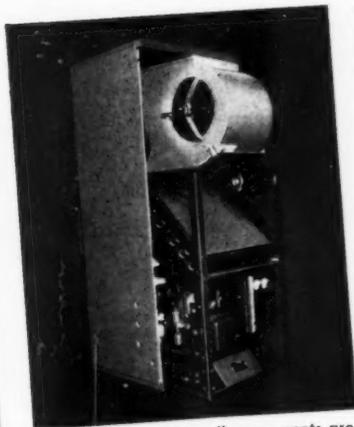
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by Nolan D. Mitchell and James V. Ryan; Building Materials and Structures Report BMS 135; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 3, 1953.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Steel columns; (b) Laths; (c) Lathing accessories; (d) Plaster; (e) Aggregates; 3. Construction Details; (a) Thermocouple mounting; (b) Column end protection; (c) Assembly of plaster bases; (d) Plastering; (e) Aging; 4. Test Method and Equipment; (a) Specifications and end-point criteria; (b) Column-testing furnace; (c) Temperatures; (d) Deformations; 5. Results of Tests; 6. Discussion; (a) Variations Among Test Specimens; (b) Plaster bases; (c) Plasters; (d) Plaster aggregates; (e) Plaster thicknesses; (f) Plaster reinforcement; (g) Size of column; (h) Workmanship; (i) Effectiveness of combined and free water; and 7. References.

**ABSTRACT.** The results presented are those derived from fire-endurance tests of 16 steel columns encased with gypsum lath and gypsum plasters. The laths were wired into place; those on eight columns were of the  $\frac{3}{8}$ -in. thick perforated type in a single layer, those on seven of the other eight columns were of two layers of the  $\frac{1}{2}$ -in. thick plain type, and on the other a single layer. Six of the latter eight also had a layer of wire fabric to reinforce the plaster. Expanded perlite was used as the plaster aggregate for 13 columns, sand for two, and vermiculite for one. The thickness of the plasters ranged from  $\frac{1}{2}$ -in. to 2 in., and those of the encasements from  $\frac{3}{8}$ -in. to 2- $\frac{1}{2}$  in. The fire-resistance values indicated by the tests varied with the composition, reinforcement, and thickness of the protective covering, and to some degree with the size of the column. The fire-endurance limits, as determined from the tests, ranged from 1 hr. 23 min. for a 10-in. steel I-section column protected with  $\frac{3}{8}$ -in. perforated lath and  $\frac{1}{2}$ -in. of sanded gypsum plaster to 4 hr. 42 min. for one protected with two layers of  $\frac{1}{2}$ -in. lath, and a  $\frac{1}{2}$ -in. thickness of perlite-gypsum plaster reinforced with wire fabric. The fire-endurance limits described may serve as a guide for the selection of constructions to meet building code requirements and as a measure of the extent of compliance with building practice with existing codes.

## (o) Nails and Nailing

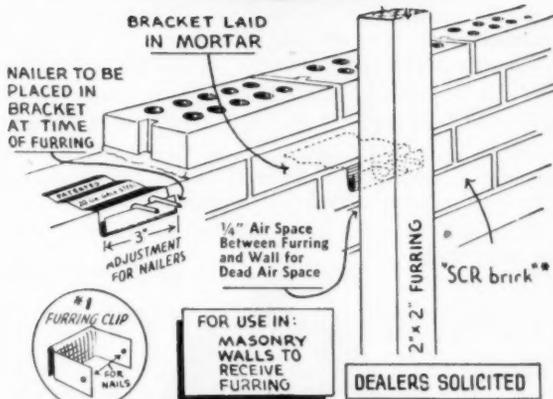
**(701) TECHNIQUE OF HOUSE NAILING** by Forest Products Laboratory, Forest Service, U. S. Department of Agriculture, in collaboration with the technical staff of the Housing and Home Finance Agency; published by Housing and Home Finance Agency, Technical Staff, Washington, D. C., November 1947.—53 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Purpose; 3. Scope; 4. Recommendations for Nailing; 5. Key to Drawings; 6. Sill; 7. Double Sill; 8. Two-Piece Girder; 9. Three-Piece Girder; 10. Ledger; 11. Joist; 12. Joist Notched Over Ledger Strip; 13. Joist Bearing on Girder; 14. Overlapping Notched Joist Bearing on Ledger Strip; 15. Notched Joist Bearing on Ledger Strip; 16. Bridging; 17. Subfloor; 18. Plywood Subfloor; 19. Sole Plate; 20. Corner Post; 21. Stud; 22. Anchorage of Studs to Sills; 23. Top Plate and Bracing; 24. Ribbon; 25. Joist Bearing on Ribbon; 26. Floor Opening; 27. Door Opening; 28. Window Opening; 29. Jack Rafter; 30. Roof Peak; 31. Rafter Ends; 32. Notched Gable Stud; 33. Beveled Gable Stud; 34. Partition-Wall Connection; 35. Porch Connection; 36. Diagonal Wall Sheathing; 37. Horizontal Wall Sheath-

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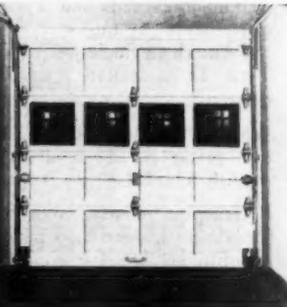
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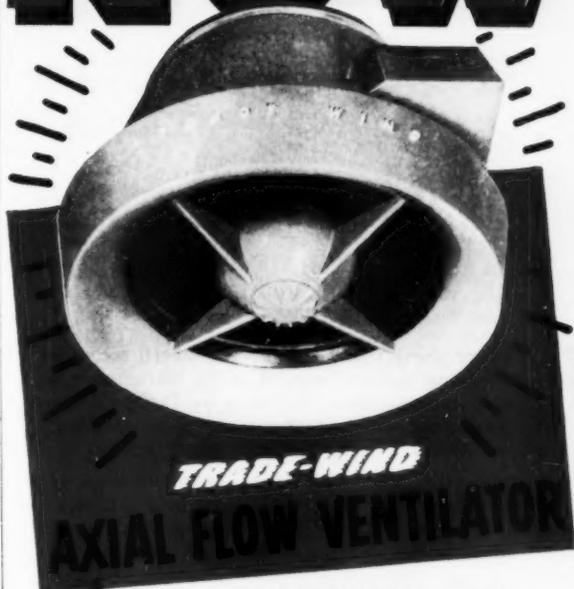
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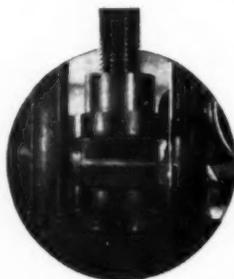
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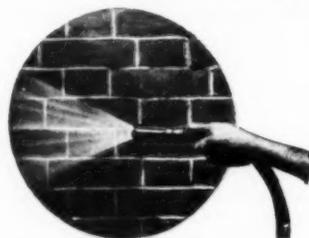


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One of the most important characteristics any mortar can possess is *plasticity*. Within certain limits, plasticity is the greatest single factor not only in the *economy* of the brickwork, but also in its strength, its neatness, and its resistance to the passage of water.

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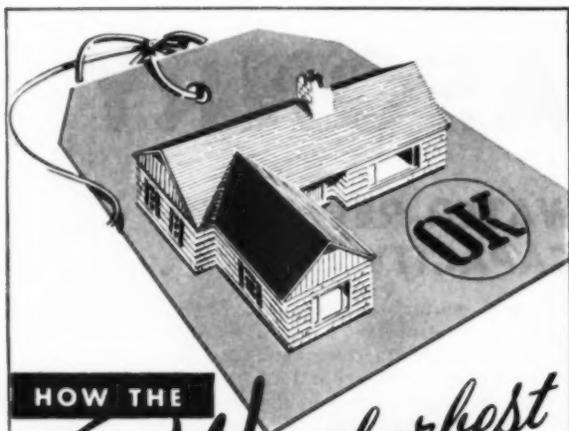
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**ABSTRACT.** An illustrated booklet presenting nailing techniques aimed at promoting correct nailing practices and sound construction. Text and illustrations were prepared by Otto C. Hever and T. R. C. Wilson, Forest Products Laboratory engineers. Much of the test work upon which the manual is based was done by J. M. Gahagan of the Forest Products Laboratory staff, since retired. The importance of correct nailing in house construction is generally recognized, but there previously had existed no precise and authoritative booklet giving specifications for nailing. The nailing techniques illustrated in this booklet are based upon an accumulation of information obtained from a number of sources, engineering studies, testing, observation of nailing practices, and investigations conducted by the Forest Products Laboratory, in collaboration with the former Technical Office of the National Housing Agency (which was succeeded by the Housing and Home Finance Agency pursuant to Reorganization Plan No. 3, effective July 27, 1947).

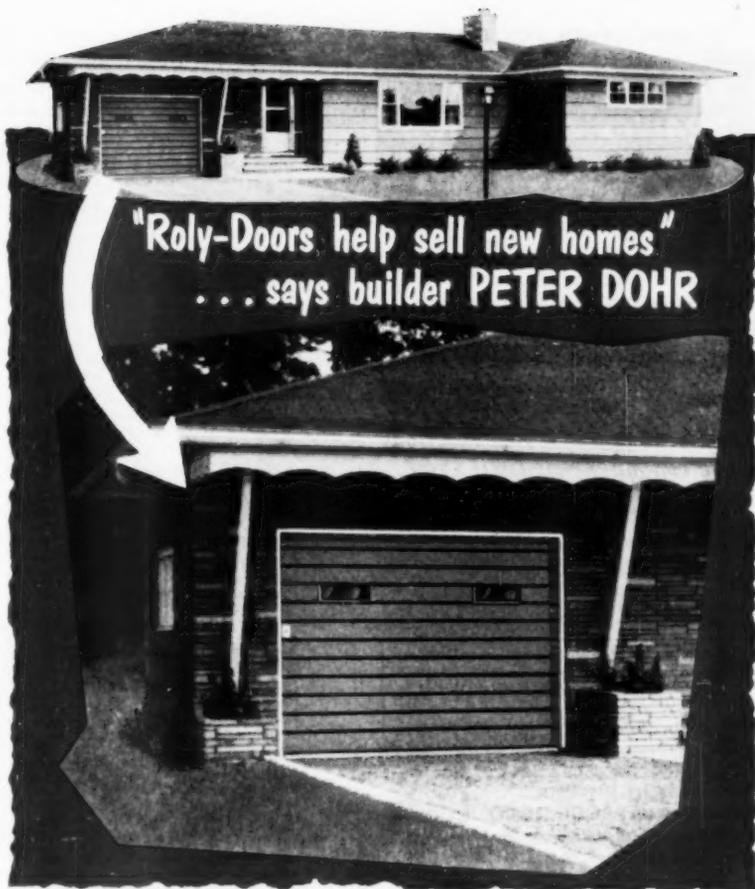
(p) **Miscellaneous  
Building  
Materials**

(711) **SUITABILITY OF FIBER INSULATING LATH AS A PLASTER BASE** by Lansing S. Wells and D. C. Smith; Building Materials and Structures Report BMS 3; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 23, 1938.—17 pages; price: 10c. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials; (a) Fiber insulating boards and lath; (b) Plywood; (c) Gypsum wall boards and gypsum lath; (d) Cement-asbestos board; (e) Compressed-fiber board; (f) Sand; (g) Gypsum plaster; (h) Calcined gypsum; and (i) Hydrated lime; 3. Properties of the Boards; (a) Density and strength; (b) Expansions and contractions; (c) Comparison of linear changes of painted with unpainted boards; 4. Experiments on Unplastered Boards When Attached to Studding; 5. Experiments on Plastered Fiber Insulating Lath; (a) Three-coat plastering; (b) Two-coat plastering; and 6. Summary and Conclusions.

**ABSTRACT.** The investigation pertains to the properties of wall and plaster boards and the suitability of fiber insulating boards as a plaster base. Such properties as density, strength (flexural and tensile), and linear changes accompanying changes in relative humidity and wetting and drying were studied. The boards were mounted on steel frames and the extent of buckling resulting from changes in relative humidity was determined. Methods of successful application of plaster on insulating lath were determined by experiments in which the thickness, sand content, strength, and time of set of the plasters were varied independently. This investigation was conducted under an allotment from the Works Progress Administration.

(712) **PLASTIC CALKING MATERIALS** by J. J. Tregoning, K. A. Milliken, A. Hockman, W. H. Sligh, and D. W. Kessler; Building Ma-



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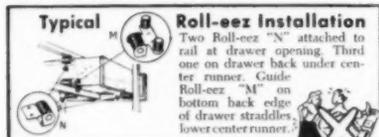
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aterials and Structures Report BMS 33; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 20, 1940.—23 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Samples; 3. Composition Studies; (a) Methods; (b) Analytical results; 4. Physical Determinations; (a) Current tests; (b) Proposed tests; (i) Shrinkage; (ii) Bond; (iii) Tenacity; (iv) Rate of hardening; (v) Oil retention; (vi) Consistency; (vii) Density; (viii) Volatile loss; (c) Comparison of results of current and proposed tests; 5. Relation of Type of Building Material and Width of Joints to Performance; (a) Vehicle; (i) Linseed oil; (ii) Soybean oil; (iii) Fish oil; (iv) Tung oil; (v) Miscellaneous; (b) Pigments; (c) Thinners; 7. Relation of Physical Properties to Performance; 8. Primers and Their Effectiveness; 9. Durability; (a) Exposure of strain-test specimens; (b) Exposure of rigid joints; (c) Inspection of buildings; and 10. Summary.

**ABSTRACT.** One phase of this study was concerned with the development of test procedures for the acceleration of data to form the basis of a specification. By inspection of several installations and numerous specimen joints after exposure to the weather for several years, it was decided that tests for shrinkage, rate of hardening, bond, tenacity, staining, and slumping tendency afford a good basis for predicting the performance. Since calking compounds are commercially used in contact with porous materials whose absorptive properties materially affect the performance, it is necessary to employ an accessory porous material in the tests. For this purpose a certain limestone has been selected because of its uniformity. The test procedures have been so devised that three specimens are prepared for each sample and on these eight properties are determined. A study of the composition of proprietary compounds has shown that a large variety of formulations are used. Oils most commonly used are fish, soybean, linseed, and tung. Coffees and rapeseed oils were employed in some mixtures whereas there were a few brands in which the vehicle consisted of rosin, talow, or synthetic resin. In a considerable number of the proprietary compounds, the volatile content was too high for good performance. A study of compositions in relation to performance has indicated that pretreatment of the oil is of first importance, and that considerable care must be exercised in selecting fillers as well as keeping the volatile content very low. Certain factors which may affect the performance of plastic calking materials in service have been studied. Compounds that give good service in one type of masonry do not always give similar results on all other types. Often very porous masonry absorbs less of the vehicle than much denser materials do. Capillary forces of the pores seem to be of considerable importance. A compound may be satisfactory in wide joints but fail in narrow joints. Primers have been found to have some value in reducing shrinkage of mixtures of pronounced staining characteristics, but they may affect the bond adversely. Good mixtures do not require primers. The penetration of moisture through masonry walls is usually confined to joints which were improperly filled or to joints which opened subsequent to construction on account of structural movements. Joints which are particularly apt to open from structural movements are those between the masonry and the frames of doors or windows. Plastic calking materials have come into extensive use for filling certain joints in masonry as well as in some other types of construction. They are intended to remain sufficiently pliable to yield and maintain a seal in joints that vary in width to such an extent as to render the use of mortar or other rigid joint filler impracticable. Although the cost of the calking is relatively small, the failure to properly maintain a seal may result in costly repairs. Because considerable difficulty had been experienced in obtaining entirely satisfactory service from the plastic calking compounds, the above described study has been made, based on tests devised to determine the quality of such materials. It has been found that the performance of plastic calking materials is influenced, to a large extent, by the nature of porous materials with which the compounds are placed in contact. There is a marked variation in uniformity of all

brands studied, which indicates that more rigid control is necessary in the manufacture of such products.

(713) **STABILITY OF SHEATHING PAPERS AS DETERMINED BY ACCELERATED AGING** by Samuel G. Weissberg, Daniel A. Jessup, and Charles G. Weber; Building Materials and Structures Report BMS 35; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued December 22, 1939.—7 pages; Out of print. See your librarian.

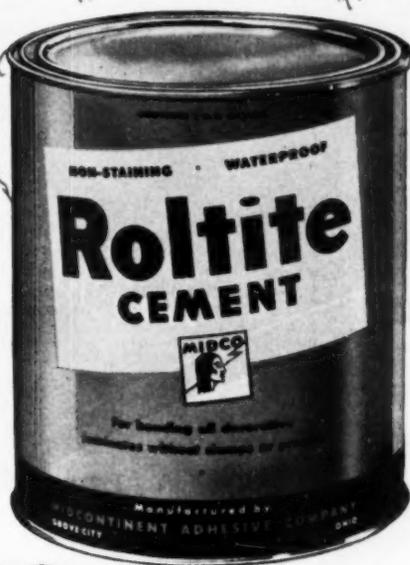
Includes a consideration of: 1. Introduction; 2. Description of Samples; (a) Laminated paper products; (b) Single-ply, asphalt-treated; (c) Metal-foil laminated products; (d) Rosin-sized paper; 3. Determination of Stability by Accelerated Aging; (a) Permeability to air, water, and water vapor; (b) Strength; (c) Shrinkage; and 4. Summary and Conclusions.

**ABSTRACT.** The more familiar types of sheathing papers were tested to obtain authoritative information on how well they can be expected to retain their desirable qualities in service. Accelerated aging was used, because to obtain comparable data from natural aging would require much more time. The aging treatment included cycles of wetting, freezing, drying, and baking; and the effects of the treatment were observed by the comparison of the properties before and after aging. Important properties of this class of papers are resistance to the passage of air, water, and water vapor; hence, the judgment of stability was based largely on the degree of retention of those attributes. In general, the papers lined with metal foils were least affected by aging. The asphalt-treated papers differed widely. The single-ply papers as a class had lower initial resistance to water and moisture vapor than the laminated papers but retained the resistance somewhat better than the latter, although one of the duplex papers received a very high rating. Rosin-sized papers had unsatisfactory aging properties.

(714) **STRENGTH, ABSORPTION, AND RESISTANCE TO LABORATORY FREEZING AND THAWING OF BUILDING BRICKS PRODUCED IN THE UNITED STATES** by John W. McBurney and Joseph C. Richmond; Building Materials and Structures Report BMS 60; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued November 5, 1940.—56 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Sampling and Distribution of Sources; 3. Methods of Testing; 4. Presentation of Data, by Producing Districts; (a) Table 1. Maine, New Hampshire, and Vermont; (b) Table 2. Massachusetts; (c) Table 3. Connecticut; (d) Table 4. Hudson Valley (New York City); (e) Table 5. New York State (except Hudson Valley); (f) Table 6. New Jersey; (g) Table 7. Delaware and Maryland; (h) Table 8. Philadelphia; (i) Table 9. Eastern Pennsylvania (except Philadelphia); (j) Table 10. West Virginia and Western Pennsylvania; (k) Table 11. Ohio; (l) Table 12. Detroit; (m) Table 13. Wisconsin; (n) Table 14. Chicago; (o) Table 15. Indiana, Illinois (except Chicago), and Missouri; (p) Table 16. Nebraska, Iowa, Kansas, and Minnesota; (q) Table 17. Utah and Wyoming; (r) Table 18. Colorado; (s) Table 19. Washington, Oregon, and California; (t) Table 20. Texas; (u) Table 21. Arkansas, Louisiana, Mississippi, and Alabama; (v) Table 22. Tennessee; (w) Table 23. Kentucky; (x) Table 24. North Carolina; (y) Table 25. Virginia and the District of Columbia; and 5. Selected References.

**ABSTRACT.** This paper reports the compressive and transverse strengths, water absorptions, saturation coefficients, and either the number of cycles of freezing and thawing required to produce failure or the loss in weight after 51 cycles for each of 3,368 bricks representing 525



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gradings produced by 209 manufacturers. Average results for all tests except freezing and thawing are given for an additional 197 gradings of samples, comprising a total of 1390 specimens. These 197 gradings include samples from 20 additional manufacturers. Tests were conducted over a 10-year period on bricks collected from 36 of the 48 States.

- (715) INVESTIGATION OF FAILURES OF WHITE-COAT PLASTER by Lansing S. Wells, Walter F. Clarke, Edward S. Newman, and Dana L. Bishop; Building Materials and Structures Report BMS 121; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C. Issued February 1, 1951.—42 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Plaster and Plastering; 3. Description of Failures; 4. Discussion of the Formation and Subsequent History of White-Coat Plaster; 5. Investigation of White-Coat Samples Taken after Failure; 6. Investigation of Some Base Coats; 7. Possible Causes of Failure of White-Coat Plaster other than Hydration of Magnesia; 8. Preventing Failures of White-Coat Plaster in New Buildings; 9. Methods of Repairing Damaged Plaster; 10. Summary and Conclusions; and 11. References.

**ABSTRACT.** An investigation was made of a particular kind of plaster failure that is characterized by the formation of blisters or bulges in the finish coat of plaster. Extensive surveys revealed that the failures are widespread; that several years elapse before the bulges appear and thereafter the number and extent of failures increase as the age of the buildings increases; that the failures occur more extensively and rapidly during warm humid weather; and that there is a marked similarity in the failures regardless of the kind of plaster base coats, type of construction base, varying job conditions, and type of workmanship. The usual white coat is prepared from a lime putty gaged with plaster of paris (gypsum gaging plaster). Chemical analysis of 88 samples of white-coat plaster that had failed showed that in every instance a dolomitic lime had been used in preparing the white coat. Regularly hydrated dolomitic limes contain about 32 percent of total MgO (by weight), of which only about 5 percent is hydrated and the remaining 27 percent is still present as unhydrated MgO. This highly incomplete hydration is due to the fact that the magnesia has been badly overburned in the production of dolomitic quicklimes (which contain CaO and MgO in nearly equal molecular proportions) and thus is inactive toward hydration in the usual hydrators. Furthermore, only about 20 percent of the hydration of the magnesia is completed at the end of the customary 1-day soaking period. The amounts of  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ,  $\text{CaCO}_3$ ,  $\text{Ca(OH)}_2$ , and  $\text{Mg(OH)}_2$  in the hardened plasters were calculated from the chemical analysis and closely checked by the method of heat of solution. The presence of  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ,  $\text{Mg(OH)}_2$ ,  $\text{Ca(OH)}_2$ , and  $\text{CaCO}_3$  were conformed by thermal analysis. The average amount of hydration of the MgO for 88 samples of failed white coat was 59.0 percent—much in excess of the 20 percent attained after the customary 1 day of soaking the lime as a putty. Hydration of magnesia must, therefore, occur on the wall. The hydration of MgO is attended by marked expansion. Failures were also observed in base coats where dolomitic lime containing considerable unhydrated MgO was used in their preparation. It was shown that suggested causes other than hydration of MgO with its attendant expansion cannot account for the bulges that occur in plaster several years after a building has been erected. The precautions that should be exercised in specifying a proper lime in order to prevent future failures are discussed. The cost to the Nation of continual repairs of plastered surfaces is difficult to appraise, but it runs into millions of dollars annually. Following the conclusion, set forth in this report, that delayed hydration and expansion of the magnesia in the hydrated dolomitic lime used is responsible for the blister type of failure, the National Bureau of Standards has cooperated in developing methods for the preparation of white-coat

plaster that is not subject to these changes, and these methods have been introduced into actual production.

- (716) PHYSICAL PROPERTIES OF SOME SAMPLES OF ASBESTOS-CEMENT SIDING by Cyrus C. Fishburn; Building Materials and Structures Report BMS 122; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued July 6, 1951.—15 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Siding Samples; 3. Tests of the Siding Samples and Discussion of Test Results; 4. Tests Made by the British Building Research Board; and 5. Conclusions.

**ABSTRACT.** Measurements were made of the water absorption, weight, porosity, dimensional stability, flexural strength, and flexibility of 23 samples of American asbestos-cement siding furnished by eight manufacturers. A report of an investigation on the weathering of British asbestos-cement roofing products was studied and is briefly reported in this paper. The modulus of elasticity of the siding samples increased with decrease in absorption. The British investigation indicated that samples of roofing products having a high resistance to freezing and thawing also had low absorption and high modulus of elasticity. Slight decrease in length and in moisture movement were noted with repeated cycles of wetting and drying.

- (717) EFFECT OF AGING ON THE SOUNDNESS OF REGULARLY HYDRATED DOLOMITIC LIME PUTTIES by Lansing S. Wells, Walter F. Clarke, and Ernest M. Levin; Building Materials and Structures Report BMS 127; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 25, 1952.—14 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Scope; 3. Materials; 4. Hydrated Lime; 5. Cement; 6. Procedure and Apparatus; 7. Preparation and Storage of Putty; 8. Determination of Free Water in the Putty; 9. Determination of Ignition Loss of the Dried Putty; and 10. Preparation and Testing of Autoclave Bars; 11. Calculations; 12. Results and Discussion; 13. Summary and Conclusions; and 14. References.

**ABSTRACT.** Regularly hydrated dolomitic limes are potentially unsound because they contain unhydrated magnesia that may hydrate subsequently in the set plaster, causing disruptive expansion. It is important to know the time required to soak these limes as putties so that sufficient magnesia will have been hydrated to give a sound putty. The customary soaking period of 1 day is inadequate, as evidenced by the prevalence of white-coat expansion failures. Consequently, the progressive hydration of magnesia in dolomitic lime putties upon aging and the attendant decrease in autoclave expansion of cement-lime putty bars were studied for 18 regularly hydrated dolomitic limes representative of commercial production. The limes differed markedly in regard both to the time required to reach a given percentage of expansion and to the extent of hydration at the given expansion. The shortest time of aging required to reduce the expansion to 1 percent (a suggested specification limit for soundness) was 3 weeks, whereas the longest time was in excess of 32 weeks. When the expansion had been reduced to 1 percent, the proportion of total magnesia hydrated ranged from 83 to more than 97 percent. Inasmuch as long and variable aging periods are impractical, suitable alternatives, including the use of newly developed sound hydrated limes, are discussed. The Bureau of Standards cooperated in developing methods for producing dolomitic limes so highly hydrated that expansion by further hydration would be negligible. It did so because regularly

hydrated (type N-normal finishing) dolomitic lime caused extensive blister-type failures in white-coat plaster.

- (718) ATMOSPHERIC EXPOSURE TESTS OF NAILED SHEET-METAL BUILDING MATERIALS by Theodore H. Orem; Building Materials and Structures Report BMS 128; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued March 28, 1952.—24 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials (aluminum; aluminum alloy; aluminum-coated steel; galvanized steel; and zinc alloy); 3. Description; 4. Results and Discussion; and 5. Conclusions.

**ABSTRACT.** Tests of nailed metallic building sheets of aluminum, aluminum alloy, aluminum-coated steel, galvanized steel, and zinc alloy exposed for a period of 2 years to the atmospheres of Washington, D. C., and Hampton Roads, Va., are described. The tests indicate that improper installation practices can cause accelerated corrosion of such materials, but which, when properly installed, may be expected to give long satisfactory service. Important conclusions and recommendations are given regarding the installation of sheet-metal building materials. While it is not yet possible to establish the relative resistance to corrosion of the different materials because of the short duration of the tests, the deleterious corrosion of some of the materials that has already taken place because of improper installation warrants reporting on this phase of the project at this time. The information may indicate how to avoid undue maintenance costs resulting from improper installation.

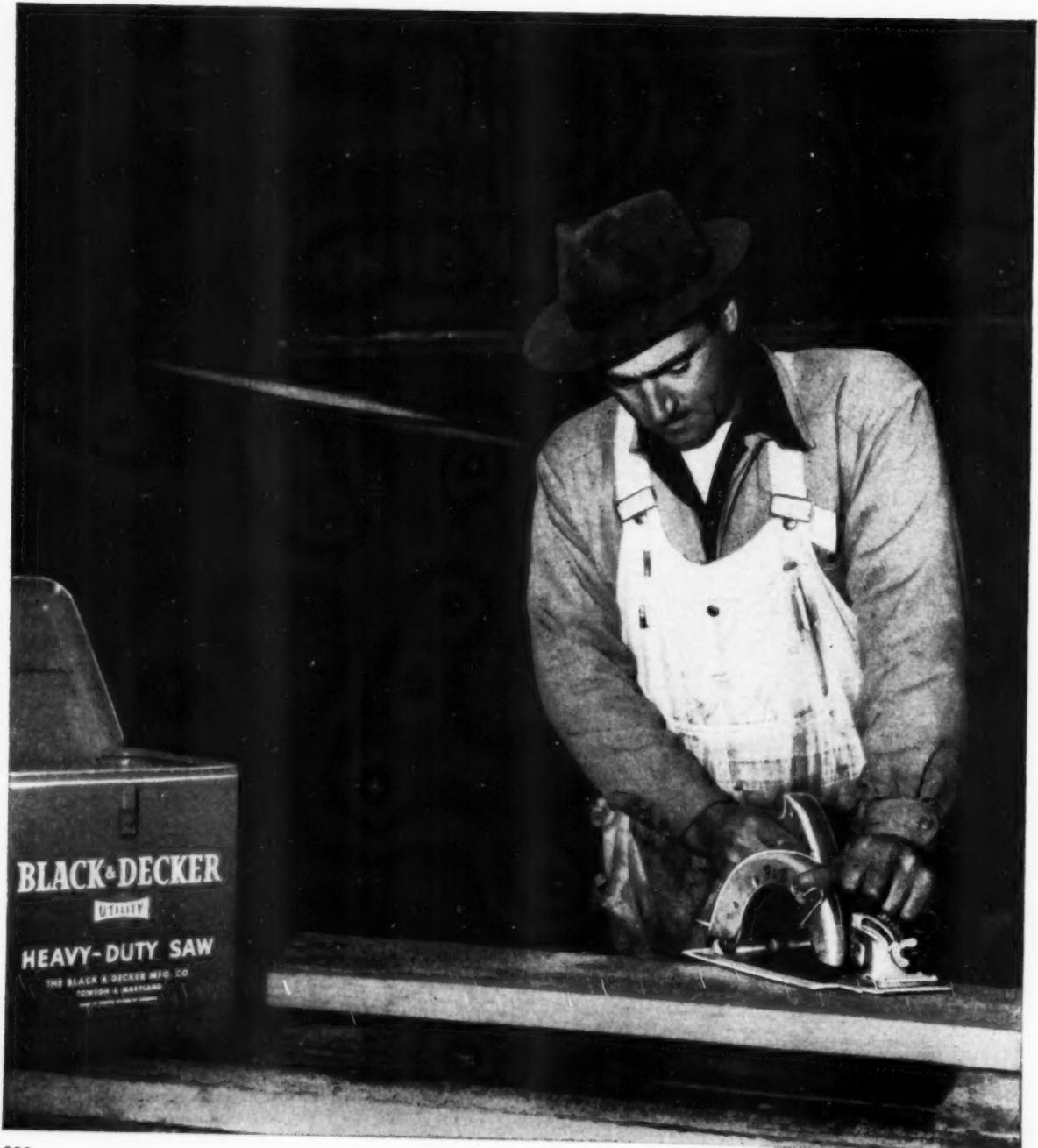
- (719) SOME PROPERTIES OF PAPER-OVERLAID VENEER AND PLYWOOD—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis and compilation of the results here reported: Alexander W. Ely, C. O. Erickson, and Robert J. Seidl (engineers), Frank J. Spinar (chemist), Donald J. Fahcy (technologist), and F. A. Streng (technical writer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director; published by the Housing and Home Finance Agency, Technical Staff, Washington, D. C., as its "Technical Paper No. 9," in May 1948.—26 pages.

Includes a consideration of: 1. Introduction; 2. Preparation of Overlay Materials; 3. Strength and stiffness tests; (a) Test specimens; (b) Testing procedures; (i) Tension test of paper overlay; (ii) Transverse bending tests of overlaid veneer; (c) Results of tests; (i) Tensile strength of overlays; (ii) Bending properties of overlaid veneer; 4. Abrasion Tests; (a) Test Specimens; (b) Testing Procedures; (c) Results of Tests; 5. Vapor Transmission Tests; (a) Test Specimens; (b) Testing Procedure; (c) Results of Tests; 6. Dimensional Stability Tests of Overlaid Veneers; (a) Test specimens and procedures; (b) Results of tests; 7. Dimensional Stability Test of Overlaid Plywood and Sandwich Constructions; (a) Preparation of test panels; (b) Testing procedure; and (c) Results of Tests.

**ABSTRACT.** This report covers the effect of phenolic resin on paper overlays for veneer and plywood, including test data on strength and stiffness, abrasion resistance, water vapor transmission, and dimensional stability. (Paper overlays impregnated with phenolic resin are coming into use to mask defects in ve-



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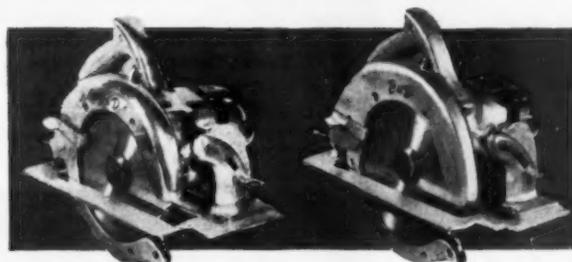
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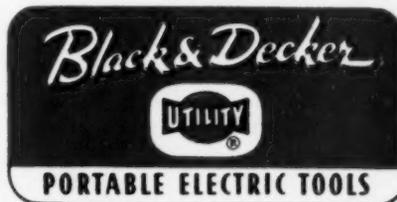
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neer and plywood. They were found by test to improve certain characteristics of the veneer.)

**(720) PROPERTIES OF FOUR EXPERIMENTAL FLUSH-TYPE DOORS**

(Including a Tentative Test Procedure)—Prepared at the Forest Products Laboratory, Forest Service, U. S. Department of Agriculture. The following staff members were in charge of test procedures, analysis, and compilation of the results here reported: W. E. Bonser, G. E. Heck, O. C. Heyer, Paul J. Hunt, L. W. Wood, and W. G. Youngquist (engineers), and F. A. Streng (technical writer). The research was supervised by R. P. A. Johnson, Chief of the Division of Timber Mechanics, with the assistance of R. F. Luxford. The project was sponsored by the Housing and Home Finance Agency, Technical Staff, of which Leonard G. Haeger was Director; published by Housing and Home Finance Agency, Technical Staff, Washington, D. C., August 1948, as its "Technical Paper No. 10,"—8 pages; price: not stated. Order copies from the Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Introduction; 2. Description of Test Doors; 3. Methods of Test; (a) Racking parallel to plane of door; (b) Racking perpendicular to plane of door; (c) Impact by falling ball; (d) Differential moisture exposure; (e) Cyclic moisture exposure; (f) Immersion tests; 4. Results of Tests; (a) Racking; (b) Impact; (c) Differential moisture exposure; (d) Cyclic moisture exposure; and (e) Immersion test. ABSTRACT. A report covering experimental work, including a test procedure on flush-type doors, including racking, perpendicular and parallel to the plane of the door, falling ball impact, exposure to cycles of low and high relative humidity, a warping test, and a water immersion test. Flush-type door constructions are compared with the conventional five-panel door.

**(721) STRUCTURAL PROPERTIES OF LIGHT-GAGE TUBULAR COLUMNS** by William A. Russell, Structural Engineer, Housing and Home Finance Agency. The investigations on which this report is based were performed in the laboratories of the National Bureau of Standards, U. S. Department of Commerce, by David Watstein and C. T. Valenti, Jr., structural engineers, under the general direction of Douglas E. Parsons, Director of Building Technology at the Bureau; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., in October 1953, as its "Housing Research Paper No. 21,"—39 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Specimens; 3. Auxiliary Test Specimens; 4. Description of Material; 5. Preparation of Specimens; 6. Loading Fixtures; 7. Test Methods; 8. Test Results; 9. Other Observations; 10. Comparison of Observed and Computed Maximum Loads; 11. Comparison of Observed Maximum and Allowable Loads; 12. Test Results of Auxiliary Specimens; 13. Analysis of Test Results; 14. New Formula for Concrete-Filled Pipe Columns; 15. Column Chart; 16. The Lally Formula; 17. Conclusions; and 18. Column Test Charts (17 pages). ABSTRACT. This paper presents factual data on the behavior and safe load-carrying capacity of small, light-gage tubular steel columns, both hollow and concrete filled, suitable for the light loads encountered in dwelling construction. Such columns behave no different-

ly than similar heavy-gage pipe columns and accordingly, safe load capacity may be computed by means of the same formulae used for heavy-gage tubular columns. Discrepancies between existing formulas for concrete-filled pipe columns are discussed and a suggested formula is presented in chart form which permits rapid computation of safe load values.

**(722) INFLUENCE OF THE WASH FROM BRONZE ON THE WEATHERING OF MARBLE** by Daniel W. Kessler and Ross E. Anderson; Building Materials and Structures Report BMS 137; published by the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C.—Issued 1953.—11 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Outline of Program; 3. Description of Materials; 4. Tests on Fresh Marble; 5. Description of Exposure Tests; 6. Results of Exposure Tests; 7. Observations on Various Marbles Exposed to Bronze; 8. Discussion of Results; (a) Exposure tests; (i) Untreated specimens; (ii) Paraffin-treated specimens; (iii) Warping of marble; (b) Observations on structures; (c) Effect of infiltrating matter; 9. Summary; and 10. References. ABSTRACT. This investigation was made to determine whether rain water flowing over bronze work and then over marble in monuments or other structures causes deterioration of the marble. Experimental work included exposure tests, extending over a period of 13½ years, in which many specimens of a white calcite marble were exposed to the wash from three bronzes of typical compositions. Tests for flexural strength, abrasive resistance, absorption, and bulk density were made on some of the specimens after exposure periods of 5, 10, and 13½ years to determine the changes in test values. Several buildings and monuments were inspected where various marbles had been exposed to the wash from bronze for periods ranging from 20 to 98 years. It was found that some marbles are not appreciably injured by such conditions, whereas others showed advanced stages of disintegration within a period of 30 years. Some marbles develop both green and brown discolorations, and disintegration usually occurs in the brown areas. The green staining matter does not appear to have any appreciable effect on the durability of marble. Treatment of the marble with molten paraffin to seal the pores does not prevent discoloration except for a period of 2 or 3 years. Tests indicated that this treatment materially reduces the flexural strength and abrasive resistance of marble.

**(q) Quantities of Building Materials Consumed**

**(751) THE MATERIALS USE SURVEY: A STUDY OF THE NATIONAL AND REGIONAL CHARACTERISTICS OF ONE-FAMILY DWELLINGS BUILT IN THE FIRST HALF OF 1950** (revised edition) by E. Everett Ashley, 3d, Philip A. Randall, George R. Kinzie, and Robert Strelitz, Max Lipowitz, Staff Technician; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., March 1953.—26 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. A Discussion of the Material; (a) Reason for a Survey; (b) Regional patterns; (c) Comparison between 1940 and 1950 houses;

(d) Reliability of 1950 data; (e) Tabular arrangement; (f) Questionnaire; (g) Care in the use of the data; 2. Regional Characteristics; (a) Map showing regional division of U. S. for HHFA Materials Use Survey; (b) General characteristics of single-family detached houses built during the first half of 1950 in the five regions (Table 1); (c) Structural characteristics, by regions (Table 2); (d) Plumbing, heating and wiring characteristics, by regions (Table 3); (e) Water, sewage, and drainage characteristics, by regions (Table 4); (f) Special equipment characteristics, by regions (Table 5); 3. Material Quantities Used in the Production of 1,000 Single-Family Detached Houses Built in the First Half of 1950 (Table); 4. Appendix A: Statistical Technique Used in the Survey; (a) Nature of survey; (b) Expanded coverage; (c) Sample design; (d) Weighing; (e) Adjustments for structural differences; (f) Regional data; 5. Appendix B: Form Used in the Survey.

ABSTRACT. This is a monograph presenting, in detail, information on structural characteristics and material used in single-family detached dwellings put under construction during the first half of 1950. This report has been prepared to assemble all of the usable data on material consumption patterns. The information, which is shown on both a national and regional basis, should be of great value to manufacturers and distributors of building materials as well as to home builders. It was prepared jointly by the Housing Economics and Housing Technology Branches of HHFA's Division of Housing Research, with the cooperation of the Washington staff of the F.H.A. It replaces a preliminary, 47-page version, by the same title, published in November 1952.

**(752) "TRAILER COACH INDUSTRY SURVEY FOR THE YEAR 1950"** by Philip A. Randall and Robert L. Strelitz; in *Housing Research*, Spring 1952, pages 15-27; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Development of the Survey; 2. Size of the Survey Sample; 3. Estimated Industry-Wide Aspects of Trailer Coach Production—1950; 4. Results of Trailer Coach Industry Survey; (a) Period of business operation; (b) Production data; (c) Estimates of production capacity; (d) Plant facilities; (e) Major factors limiting production capacity (54 respondents); (f) Manpower requirements; (g) Distribution; (h) Manufacturers' 1950 sales by dealer-take volume; (i) Methods of transporting; (j) Marketing; 5. Average Materials Use; (a) Method of development of the average use of materials per 1,000 trailers; (b) Tables.

ABSTRACT. The trailer coach industry survey described here is the first of its kind attempted on a comprehensive basis to permit computation of all materials used in house trailers manufactured during a certain period. The results are available to calculate future trailer coach materials requirements and the effects of any recommendations for conservation of critical materials and possible substitutions in materials use.

**(753) HOUSING AND THE EMERGENCY: AN ANALYSIS OF HOUSING MATERIALS REQUIREMENTS (PART I. STEEL, IRON, COPPER, ALUMINUM AND CEMENT)** by Leonard G. Haeger; published by the National Association of Home Builders, July 1951.—30 pages; price: Not stated. Order copies from National Association of Home Builders, 1028 Connecticut Avenue, N. W., Washington, D. C.

Includes a consideration of: 1. The National Emergency; 2. Housing in the Defense Mobilization; 3. Housing Need in the Defense Economy; 4. Basic Material Requirements and Production in the Defense Emergency; 5. Basic Material Requirements for Housing; 6. Material Requirements for all Construction; 7. Detailed

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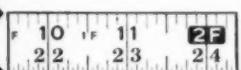


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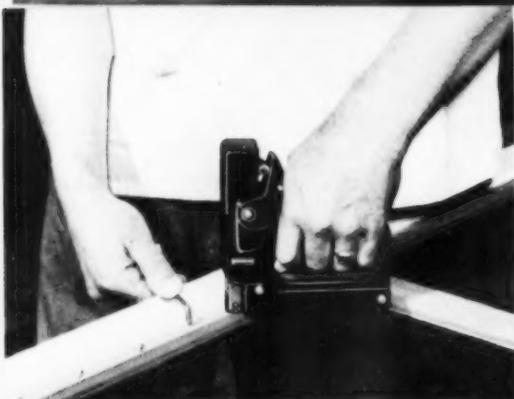
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Construction Material Requirements; 8. Manpower Requirements; 9. Conclusions; 10. Characteristics of Individual Dwelling Units; 11. Steel and Iron Weight Calculations; 12. Copper Weight Calculations; 13. Aluminum Weight Calculations; 14. Finish Hardware Weight Calculations; 15. Estimated Consumption of Selected Materials; (a) Steel; (b) Copper; (c) Aluminum; (d) Cast iron and pipe; (e) Reinforcing bars; (f) Wire nails; (g) Portland cement; and 16. Distribution of Man Hours per Dwelling Unit.

**ABSTRACT.** This study was made for the home building industry to fill a long felt need for factual information concerning the consumption of selected building materials by the industry. It is intended to serve as a guide to the use of these critical materials in the production of new housing. In the preparation of the work the author was aided by consultation with the *National Association of Home Builders—Producers' Council Committee on Production and Distribution of Building Materials*. The Co-Chairmen of this Joint Committee were Rodney M. Lockwood of NAHB, and William Gillett of the Producers'

Council. Assistance in the preparation of the study was also given by the Division of Construction Statistics of the Bureau of Labor Statistics, by the Building Materials Division of the National Production Authority, and by the Division of Housing Research of the Housing and Home Finance Agency.

## (r) Self-Help Housing Construction

(761) "BUILDING SELF-HELP HOMES" by William A. Russell; in *Housing Research*, Fall 1951, pages 27-34; published by the Housing and Home Financing Agency, Division of Housing Re-

search, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Simplified Building Techniques; 2. Self-Help Methods Cut Costs; 3. Fire-Resistance—An Added Benefit; 4. Tuskegee Develops Materials and Techniques; and 5. HIFA Guide for Self-Help Builders.

**ABSTRACT.** Tuskegee self-help houses offer a solution for many low-income families who cannot muster enough cash to acquire an adequate home. An HIFA research project at Tuskegee is aimed at developing self-help building methods and making them available to families and groups of families throughout the Nation. In addition to helping many Americans acquire better housing, Tuskegee's self-help methods may be useful also in rehabilitating housing in war-torn areas. Dr. F. D. Patterson, President of Tuskegee University, was project director.

## PART V

### (a) Analysis of the Industry

(801) "THE CONSTRUCTION INDUSTRY"—Chapter 6 (pages 146-163) of *URBAN LAND ECONOMICS* by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, N. Y.; 1949.—533 pages; price: \$6.50

This chapter considers: 1. General Nature of the Industry; 2. Productivity; 3. Importance in the National Economy; 4. Cyclical Movements; 5. Amplitude and Length of Cycles; 6. Cyclical Sequence of Events; 7. Cyclical Factors; 8. Cyclical History—1918 to 1946.

(802) "THE BUSINESS OF HOUSEBUILDING"—Chapter 3 (pages 59-94) of *AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings* By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. HOUSEBUILDING AS AN INDUSTRIAL ACTIVITY; a. The Processes of Housebuilding; b. Housebuilding and Construction; c. A Problem of Segregation; 2. SIZE AND CHARACTERISTICS OF THE HOUSEBUILDING INDUSTRY; a. Production in Terms of Labor and Materials; b. Characteristics of House Builders; 3. SEASONAL NATURE OF HOUSEBUILDING; a. Reasons for Seasonal Variation; b. Smoothing the Seasonal Curve; 4. CAPACITY OF THE HOUSING INDUSTRY; a. Physical Capacity; b. Efficiency of Operation; c. Limit of Profitable Operation; 5. SUMMARY.

(803) "THE MANAGEMENT OF THE HOUSEBUILDING INDUSTRY"—Chapter 4 (pages 95-130) of *AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings* By Miles L. Colean; The Program By The Housing Committee; published by The

Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. INITIATION AND GENERAL MANAGEMENT; a. The Buyer; b. The Land Developer and Subdivider; c. The Architect; d. The Builder; e. The Subcontracting System; 2. MANAGEMENT AND TRADE RESTRAINT; a. Purpose of Trade Restraints; b. Effects of Trade Restraints and Combinations; 3. LABOR'S RELATIONS TO MANAGEMENT; a. Combating Insecurity; b. Working Rules; 4. THE ROLE OF MANUFACTURERS AND DISTRIBUTORS; a. The Rigidity of Prices; b. The Background of Price Rigidity; c. Role of the Materials Distributor; 5. THE ROLE OF THE FINANCIER; a. Credit Arrangements; b. Dominance of Financial Institutions; 6. THE IMPACT OF GOVERNMENT ON HOUSEBUILDING; a. Government as a Stimulator; b. Government as Regulator; 7. SUMMARY.

(804) "CHANGES IN HOUSEBUILDING ORGANIZATIONS—Section 3 of Chapter 5: Industrial Trends in Housebuilding, of *AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings* By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

This section considers: a. The Operative Builder; b. The Investor's Building Agent; c. The Dealer-Builder; and d. The Factory Prefabricator.

(805) "THE NATURE OF THE HOME BUILDING INDUSTRY"—Chapter 7 (pages 23-25) of *HOUSING . . . USA!* published by The National Association of Home Builders, Washington, D. C. Not dated, but published in September 1952.—36 pages; price: 10¢. Free to members of NAHB.

(806) "HOME BUILDING"—Chapter 2 (pages 220-258) in Section Five: Land Development and Home Building, of *THE REAL ESTATE HANDBOOK*; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter traces the step-by-step operations of a home builder as follows: 1. Selecting a Livable Neighborhood; 2. Selecting the Home Site; 3. Designing the Home; 4. Heating the Home; 5. Storm Windows; and 6. Solar Orientation.

(807) "THE BACKWARDNESS OF THE HOUSEBUILDING INDUSTRY" (Conclusions concerning)—Section 1(b) of Chapter 12: Conclusions and Recommendations of the Housing Committee, of *AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings* By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

(808) *HOUSEBUILDING IN TRANSITION* by Sherman J. Maisel; published by University of California Press, 1953.—390 pages; price: \$5.00. Order copies from University of California Press, Berkeley, California, or Los Angeles, California.

Includes a consideration of: 1. Introduction; 2. The Housebuilding Industry; 3. The Small Builder; 4. The Medium Firm; 5. The Large Firm; 6. Supply of Factors; 7. Evaluating the Efficiency and Performance of Housebuilding; 8. How Efficiency Grows With Size; 9. Effects of External Restrictions; 10. Performance of Housebuilders; and 11. The Future. NOTE: In addition to 62 Tables and 11

Figures, the work has 10 Appendices, as follows: A. General Method of Procedure and Reliability of Estimates; B. House-building Production; C. Size and Type of Housebuilding Firms; D. Housebuilders' Operations; E. Information on Firms' Age, Characteristics, Ownership, and Financial Operations; F. The Product; G. Structure of the Trade-Contracting Industries; H. Pricing of the Composite House; I. Materials Supply; J. Data on the Labor Force, Entry, and Profits. **ABSTRACT.** This book is a publication of the Bureau of Business and Economic Research, University of California.

## (b) Management Problems

- (821) "OFFICE RECORDS AND INSTALLMENT PAYMENT POLICIES" (in Subdividing)—Chapter 30 (pages 291-299) of **REAL ESTATE SUBDIVISIONS** by Stanley L. McMichael; published by Prentice-Hall, Inc.; New York, N. Y., 1949.—394 pages; price: \$5.75.

This chapter considers: 1. Introduction; 2. Original Files and Tract Information; 3. Engineering Work; 4. Street Improvement; 5. Utilities; 6. Record Map; 7. Title Papers; 8. Original Sales Records; and 9. Procedure for Operating the System. This chapter was written by Frank D. Baillet.

- (822) "LICENSE LAWS GOVERNING BROKERS AND SALESMEN"—Chapter 1 (pages 391-417) in Section Nine: **Brokers' License Laws and Code of Ethics, of THE REAL ESTATE HANDBOOK**; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00.

This chapter considers: 1. History; 2. Objectives; 3. Codes of Ethics; 4. Real Estate Frauds; 5. Constitutionality; 6. Mandatory Qualifications for Licensing; 7. Bonded Brokers; 8. How to Obtain a License; 9. Preparation for Examination; and 10. Charts. (The charts, indicating license law requirements in the various states, as of January 1946, were prepared by Mr. Robert W. Semenov, Secretary-Treasurer of the National Association of License Law Officials.)

- (823) **PUBLIC RELATIONS FOR HOME BUILDERS**; published by The National Association of Home Builders, Washington, D. C. Not dated.—12 pages, multilithed; price: not stated.

Pamphlet containing illustrations from a film produced by NAHB. Contains several interesting merchandising suggestions.

- (824) "TAXES AND ASSESSMENTS"—Chapter XXIV (pages 451-469) of **REAL ESTATE ANALYSIS** by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00.

Includes a consideration of: 1. Local and Federal Government; 2. Taxes and Business in General; 3. Principles of Taxation; 4. Taxes and Real Estate; 5. Taxes and the Sale of Real Estate; 6. Taxes and New Construction; 7. One Extreme Example; 8. Taxes and the Homeowner; 9. Taxes and Investment Property; 10. Failure to Modernize Tax Systems; 11. Tax Delinquencies; 12. The Tax Load; 13. The Assessed Valuation; 14. The

Local Basis of Assessed Valuation; 15. Tax Limitations; 16. Tax Exemptions; 17. Assessments for Improvements; and 18. Taxes in General and Property Values.

- (825) **RECORD KEEPING FOR THE SMALL HOME BUILDER** by R. L. Brummet and D. A. Thomas; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., January 1952.—85 pages; price: \$1.25. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Problems of the Small Home Builder; (a) The need for complete and accurate accounting; (b) Estimating, recording, and controlling costs; (c) Financing; (d) Controlling material use; (e) Reporting; (f) Other problems; 2. Framework of the System; & Estimating; (a) Cash requirements and financing operations; (b) Goals or yardsticks for the measurements of operating efficiency; (c) Determining bid or selling price; (d) The estimating process; (e) Illustration of the estimating process; (f) Cost estimate check lists; 4. Classifying and Recording; 5. The Job Record; 6. Record Keeping for Materials; (a) Use of stock records; (b) Use of materials requisitions; (c) The physical inventory; (d) Materials returned to stock; (e) Materials transfers; 7. Payroll procedure; (a) Timekeeping; (b) Preparing the payroll; (c) Paying the employees; (d) Recording the payroll; (e) Keeping of payroll data; 8. Reports; (a) General operational reports; (i) Job progress report; (ii) Statement of resources received and used; (b) Financial statements; (i) Income statement; (ii) Statement of financial condition; (c) Report to Governmental units; (i) Requirements of Federal governing units; (ii) Upon hiring new employees; (iii) From each payment of wages to an employee; (iv) By the 15th day of each month; (v) On or before each April 30, July 31, October 31, and January 31; (vi) When an employee's withholding exemption changes; (vii) On or before each January 31 and at the termination of employment; (viii) On or before January 31 of each year; (ix) On or before February 15; (x) Requirements of State governing units; (xi) Requirements of city governing units; (xii) Builders' social security and income taxes; 9. Supplementary considerations; (a) Record keeping for fixed assets; (b) Record keeping for lots on hand and development of tracts of land; (c) Record keeping for receivables and payables; (d) Record keeping for cash on hand; (e) Reconciliation of the cash balance; (f) Income tax requirements; 10. Appendix A: The Use of Conventional Journals and Ledgers and a List of Suggested Account Titles; 11. Appendix B: Publications Dealing With the Setting of Standards of Efficiency and the Problems of Estimating Building Costs; 12. Appendix C: Description of Recommended Forms and Some Suggestions for Determining Quantities Needed.

**ABSTRACT.** A manual which provides a simple but complete bookkeeping system for the small home builder. The record-keeping system shown in this manual, explained in layman's language, is simple enough for the small home builder or a member of his family to follow in setting up and keeping a set of books. The chapters cover: estimating process covering planning and financing operations; measuring efficiency, figuring bids and selling prices; classifying and recording business transactions; keeping track of materials; payroll procedure; reports and financial statements. It is illustrated with forms, showing quantities and costs of materials and labor, and other items, as they occur in everyday building operations. *Included also is a price list and order blank for purchase of the recommended forms.* An appendix describes the use of financial journals and ledgers, and the recommended forms and publications regarding efficiency standards and estimating problems. This manual was prepared within the University of Michigan's School of Business Administration, under the supervision of H. F. Taggart, Assistant Dean, as a research project sponsored by the Housing and Home Finance Agency's Division of Housing Research. HIFA staff technicians for the project

were E. Everett Ashley, 3d, and Max Lipowitz. Robert W. King, HIFA accounting officer, reviewed the text and forms. Throughout the manual, copies of completed forms are folded in, at the proper points, to illustrate the text.

- (826) **FIELD INSPECTORS' CHECK LIST FOR BUILDING CONSTRUCTION—Report of Subcommittee on Structure, Central Housing Committee on Research, Design, and Construction** (Vincent B. Phelan, Chairman); **Building Materials and Structures Report BMS 81**; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued April 8, 1942.—68 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Preliminary Stage; (a) Preparatory steps; (b) Schedule of progress; (c) Examination of site; (d) Layout; (e) Storage of materials and equipment; (f) Inspection of work; (g) File records; (h) Sample constructions and advance tests; 3. Foundation Stage; (a) Soil load tests, specified or additional; (b) Site preparation; (c) Earthwork; (d) Utilities; (e) Footings, foundation walls, piers; (f) Backfilling; 4. Structural-framing Stage; (a) General preparations; (b) Superstructure framing; (c) Utilities; (d) Concluding check up of Stage 4; 5. Intermediate Stage; (a) General requirements; (b) Thermal insulation; (c) Sheet-metal work; (d) Weather-proofing; (e) Roofing; (f) Plumbing; (g) Heating; (h) Air conditioning; (i) Electrical work; (j) Miscellaneous metal work; (k) Metal windows; (l) Lathing; (m) Plaster and stucco; (n) Sash and doors; (o) Weatherstripping; (p) Glazing; (q) Millwork; (r) Finish flooring; (s) Screening; 6. Finishing Stage; (a) Hardware; (b) Painting and decorating; (c) Lighting fixtures; (d) Masonry; (e) Concluding check up of Stage 6; 7. Final Records; (a) Guaranties; (b) Reports of final inspections; (c) Instructions; (d) Recommendations of contractor or manufacturer; (e) Settlement; (f) Changes; (g) File copies; (h) Waivers of lien; (i) Contractors' affidavits; (j) Utility approvals; (k) Occupancy certificate; 8. Appendix A: Concrete; (a) Records for concrete work, daily or periodic; (b) Forms for concrete; (c) Reinforcement; (d) Materials; (e) Mixing at job; (f) Ready-mixed concrete (centrally mixed, truck-mixed, "shrink-mixed"); (g) Mixing efficiency; (h) Discharging operation; (i) Placing of concrete; (j) Vibrating of concrete, internal; (k) Construction joints; (l) Surface of concrete in place; (m) Cold-weather construction; (n) Hot-weather construction; (o) Finishing of surfaces made without forms; (p) Curing; (q) Removal of forms; (r) Correction of defects; 9. Appendix B: Masonry; (a) Records for masonry work, daily or periodic; (b) Construction; (c) Finished surfaces; (d) Chimneys; (e) Appendix C: Waterproofing, damp-proofing, and calking; (a) Materials for waterproofing, damp-proofing, and calking; (b) Workmanship; 11. Appendix D: Structural Steel; (a) Materials for structural steel work; (b) Fabrication and erection; (c) Prefabricated units; 12. Appendix E: Carpentry; (a) Materials for framing; (b) Lumber; (c) Framing; (d) Sheathing; (e) Siding.

**ABSTRACT.** As an authoritative guide for the inspection of materials and workmanship in building construction, this Check List has been prepared by a representative committee of Federal agencies engaged in activities relating to the design and erection of buildings. It is based, to a large extent, upon the experience of the members of the committee collaborating in its preparation and is intended to assist a field inspector in the performance of his duties and to insure that no important step is overlooked as construction progresses. The list is in no sense a specification outline. In arrangement it follows normal construction procedures and interlocking operations in regular order rather than by individual trades and should be a helpful daily reminder to the general field inspector. As the title indicates, this volume is a 68-page 'check list' in outline form.

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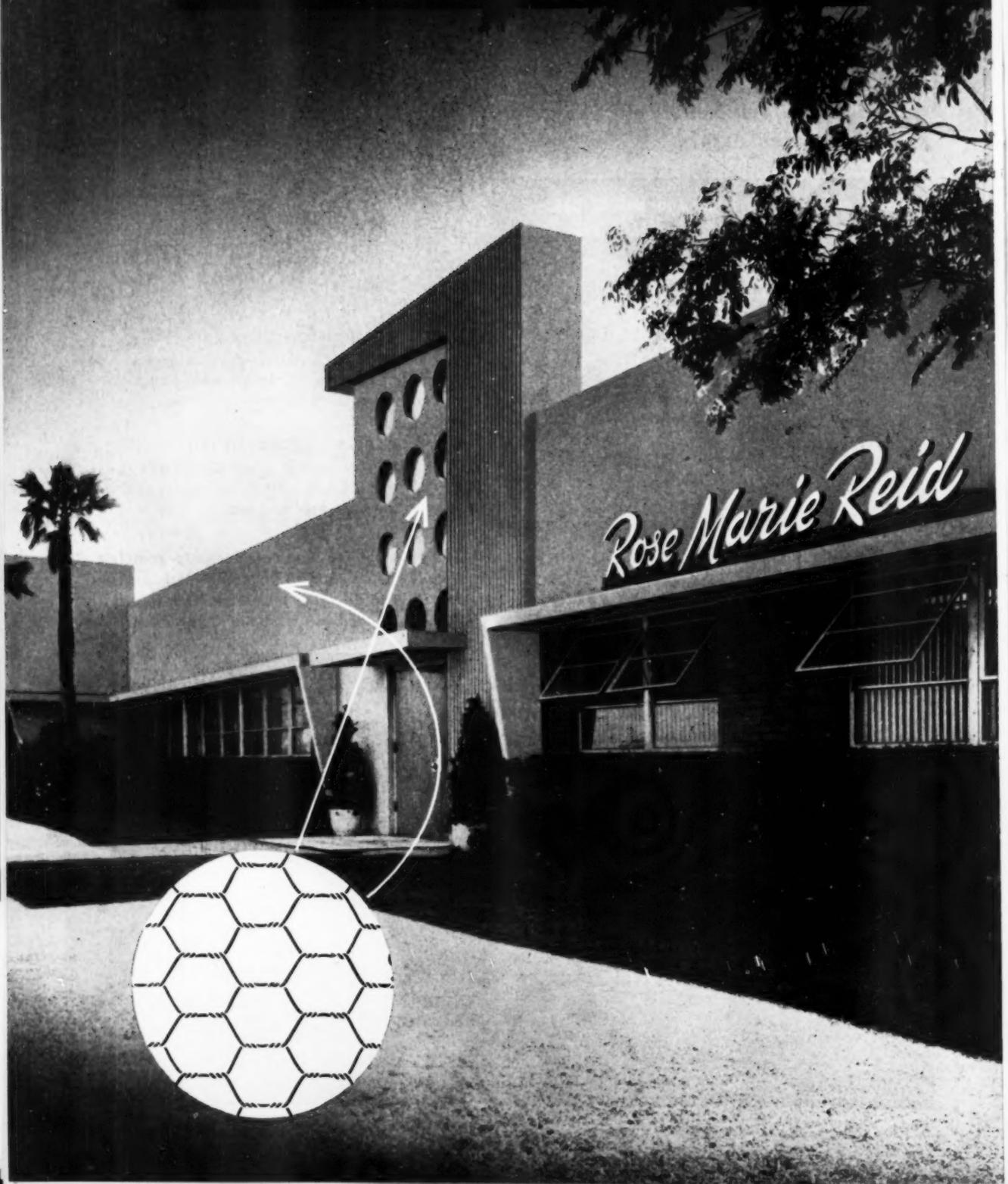
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## PART VI

### (a) Theory and Principles of Housing Finance

# FINANCING

(841) "TYPES AND USES OF REAL ESTATE FINANCING—Chapter 1 of (pages 293–296) in Section Seven: Financing, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. The Broker's Function; 2. First Mortgage; 3. Second or Junior Mortgage; 4. Amortized Mortgage; 5. Contract for Deed; 6. Straight Term Mortgage; 7. First Mortgage Bond Issue; 8. Junior Mortgage Bond Issues; 9. Stock Issue; 10. Land Trust Certificate; 11. Construction Loan; 12. Leasehold as Financing Surety; 13. Combination of Plans; 14. Use of Financing; and 15. Mortgage Moratoriums.

This chapter is largely based on lectures on real estate fundamentals by L. E. Fraley, formerly Sales-Manager of John W. Galbreath & Co., Cleveland, Ohio, and Harry Grant Atkinson of the National Association of Real Estate Boards.

(842) "FINANCING HOME OWNER-SHIP"—Chapter 2 (pages 297–310) in Section Seven: Financing of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Savings and Loan Function; 2. Types of Loans; 3. SHORT-TERM LOANS; 4. Unsound Premise; 5. High Cost of Operation; 6. Mortgage "Commissions"; 7. Danger to Lender and Borrower; 8. LONG-TERM LOANS; 9. Share-accumulation Plan—Method; 10. Depression Experience; 11. Disadvantages to Borrower; 12. Direct-reduction Loan Plan—Method; 13. Advantages; 14. Variations; 15. Cancel-and-Endorse Plan—Method; 16. Advantages and Disadvantages; 17. Comparison of Loan Plans.

This chapter is based on the book SAVINGS AND LOAN PRINCIPLES by Merton Bodfish and A. D. Theobald, published by Prentice-Hall, Inc., New York, N. Y.

(843) "THE BROKER'S FUNCTIONS IN FINANCING"—Chapter 3 (pages 311–321) in Section Seven: Financing of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Broker's Financial Interest; 2. The Mortgage Banker or Broker; 3. Mortgage Brokerage Fees; 4. The Selection of Type of Loan; 5. Sources of Real Estate Loans; 6. Federal Housing Administration—FHA; 7. What the Lender Considers; 8. Preparation and Execution of Mortgage and Deed of Trust; 9. Special Provisions; 10. Information Broker Should Have about Lenders in his Locality; 11. Comparison between Individual and Institutional Lenders; 12. Foreclosure; and 13. Bibliography.

This chapter is based, in part, on material in Prentice-Hall's Real Estate Service.

(844) "NEW HOME PRICE SHIFTS, 1951-1952 UNDER CREDIT CONTROLS AS AMENDED IN 1951" by Henry B. Schechter; in *Housing Research*, March 1953, pages 33-42; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Housing Volume; 3. Price Distribution; 4. Conventionally Financed Homes; 5. Square Foot Area; 6. Income Distributions; and 7. Technical Note on Sources. ABSTRACT. Changes in housing credit regulations for houses in different price classes affect the percentage of the total volume of new housing being produced in various price classes as well as the total volume of new housing. Special tabulations of data on commitments issued by the Federal Housing Administration to insure loans, monthly data on prices of homes purchased with Veterans Administration guaranteed loans, and other available information have been utilized in this article to trace, to the extent feasible, the effects of the significant change in housing credit regulations made on September 1, 1951, upon the price distribution and total volume of new housing. The article was prepared under the direction of Dave Lowery, Chief of HHFA's Housing Finance Branch.

(845) "HOME FINANCING 1949-51—CHANGES UNDER CREDIT CONTROLS" by Henry B. Schechter; in *Housing Research*, Winter 1951-1952, pages 7-18; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Highlights; 2. Pre-Regulation X Financing Patterns; 3. Housing Volume; 4. Pre-Regulation Buyers Ineligible Under Regulations; 5. Home Price Distributions; 6. Income Distribution of Buyers—FHA Program; and 7. Source and Reliability of Sample Data.

ABSTRACT. This article reviews changes in mortgage financing patterns which developed during the first year of emergency real estate credit restrictions. The basic information presented here, much of it previously unpublished, has been gathered principally under contract and by staff activity of the HHFA Division of Housing Research. This discussion includes pre- and post-Regulation X comparisons of housing volume, home price distribution, and income distribution of home buyers. The article was prepared under the direction of Dave Lowery.

(846) "HIGHLIGHTS OF OUTSTANDING RESIDENTIAL MORTGAGE DEBT ANALYSIS." by Henry B. Schechter; in *Housing Research*, October 1953, pages 41-54; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Dollar Amount and Age of the Debt; 2. Distribution of the Debt by Type of Lender and Type of Loan; 3. Number of Total and Owner-Occupied Mortgaged Properties; 4. Debt in Relation to Market Value; 5. Debt Service and Purchase Price in Relation to Income; 6. Veteran Status of Owners; 7. The Interest Rate; 8. Purpose of Loans; and 9. Tables.

ABSTRACT. This article presents a few highlights of figures on total outstanding mortgage debt and of significant relationships which indicate strong and weak points of the outstanding debt on owner-occupied homes. It permits a cross-sectional view of relationships, such as debt to value and debt service to income for conventional, FHA-insured, and VA-guaranteed mortgages as of August 1950. The data on residential financing from the 1950 Census of Housing were made available in advance of publication by the Bureau of the Census to the Housing and Home Finance Agency for working purposes. This article was prepared under the direction of Dave Lowery.

(847) "NATIONAL AND LOCAL MORTGAGE MARKET STRUCTURES" by Henry B. Schechter; in *Housing Research*, October 1952, pages 9-22; published by the Housing and Home Finance Agency, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Three local mortgage markets, having three different types of market structure, have been studied in contract research projects sponsored by the HHFA. The three studies were conducted in Hagerstown, Maryland by the University of Maryland, in Jacksonville, Florida by the University of Florida, and in the San Francisco Bay Area by the University of California. This article integrates certain significant findings from the three local mortgage market studies with recent mortgage finance data on a local and regional basis from other sources. An analysis of the material points to certain effects upon local markets which are related to the current national and local mortgage market structures. Includes a consideration of: 1. Local Mortgage Market Structures; 2. Effects Upon Housing Markets; 3. Extent of Area Differences; 4. Changes in Investment Policies; and 5. Conclusion. The article was prepared under the direction of Dave Lowery.

NOTE: For a summary report on each of the first two surveys cited above, see "Small City Mortgage Market: Hagerstown" by Henry B. Schechter, and "Metropolitan Mortgage Market: San Francisco" by Dr. Paul F. Wendt and Daniel B. Rathbun, on pages 9-16 and 17-25 respectively, of *Housing Research* for Fall 1951, which are cited in the present reading list as items (875) and (876).

(848) "HOUSING INVESTMENT AND FINANCE"—Chapter 9 (pages 225–256) of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes a consideration of: 1. THE AVAILABILITY OF EQUITY FUNDS; a. Funds for Use—Ownership; b. Investment in Rental Properties; c. Co-operative and Trustee Forms of Ownership; 2. DETERRENENTS TO EQUITY INVESTMENT; a. Nonliquidity of Housing Investment; b. Effects of the Real-Estate Tax System; c. Problems of Value and Management; 3. THE USE OF LONG-TERM CREDIT; a. The Mortgage as a Financial Investment; b. The Mortgage Interest Rate; c. Sources of Mortgage Finance; 4. SUMMARY.

(849) "RELATION OF FINANCE TO THE PROBLEM OF DISTRIBUTION"—Section 3 of Chapter 11: Removing the Obstacles, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

This section considers: a. Encouragement of Rental-Housing Investment; and b. Developing New Methods of Housing Finance.

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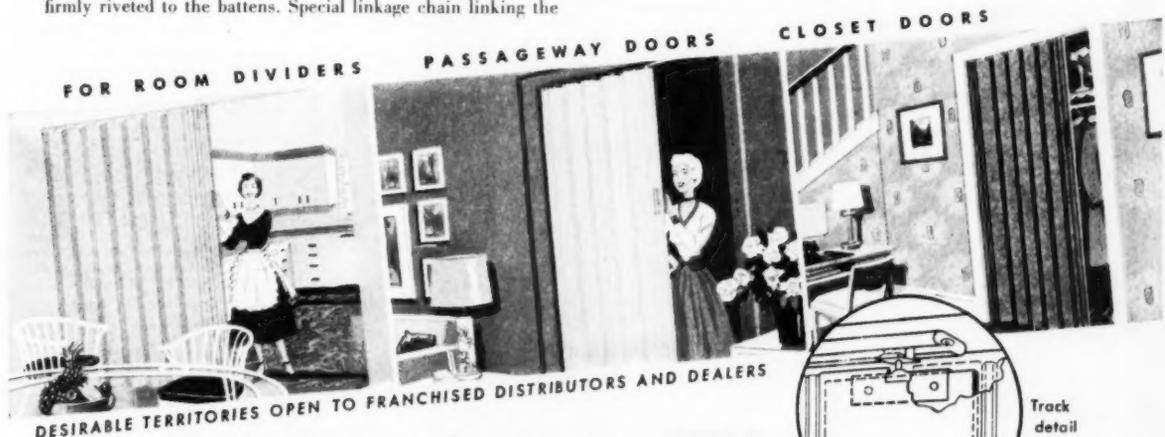
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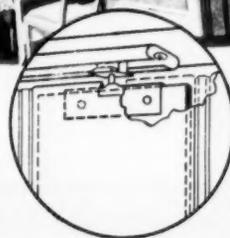
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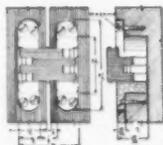


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(850) "PROBLEMS IN INVESTMENT AND FINANCE" (Conclusions concerning)—Section 1(d) of Chapter 12: Conclusions and Recommendations of the Housing Committee, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; Price: \$3.00

(851) "GOVERNMENT AND HOUSING FINANCE"—Section 2 of Chapter 10: Government and the Housing Market, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Colean; The Program By The Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

This section considers: a. The Federal Home Loan Bank Board and Affiliates; b. The Federal Housing Administration; and c. Questions Raised by the Dual Financial System.

(852) "MORTGAGES" — Chapter IX (pages 157—173) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. What is a Mortgage?; 2. Origin of Mortgages; 3. Rules which Govern Mortgages; 4. An Early Example of Equity; 5. Kinds of Mortgages; 6. Priority of Lien; 7. Form of Mortgage; 8. Description of Debt Secured; 9. Covenants Peculiar to Mortgages; 10. Delivery; 11. Rights of a Mortgagee; 12. Assignment of Mortgages; 13. Payment of Mortgage Debt; 14. Partial Release of Mortgage; 15. Form of Release; 16. Default; 17. Jurisdiction of the Courts; 18. Foreclosure by Court Proceeding; 19. Effect of Foreclosure on Junior Mortgages; 20. Foreclosure under Power of Sale; 21. Deficiency Judgments; 22. Purchase-Money Mortgage; 23. Mortgage Moratorium Legislation; and 24. Package Mortgages.

(853) "REAL ESTATE FINANCING AND RISKS"—Chapter XIX (pages 345—364) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. The Recent Rise in Prices; 2. Amount of Mortgage Debt; 3. Equity and Borrowed Capital; 4. Other Reasons for Scarcity of Equity Capital; 5. Corrective Market Action; 6. Not Real Estate Only; 7. Other Factors Affecting the Flow of Equity Capital; 8. Dependence on Borrowed Capital; 9. Early Home-Financing Procedures; 10. Examples of Early Building and Loan Practices; 11. The End Risk of Real Estate Financing; 12. Equity Financing in Practice; 13. Other Contributing Factors; 14. Risks and the Cost of Doing Business; 15. The Interest Rate; 16. Other Loan Costs; 17. The Narrowing Spread; 18. Analysis of Personal Risks; 19. Property Risk; 20. Economic Risks; and 21. Basic Position of Finance.

(854) "LOANS AND TERMS" (Construction Loans, etc.)—Chapter XX (pages 365—380) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Construction Loans—A Special Problem; 2. Construction Loans—the Equity Question; 3. Construction Loans—The Legal Aspects; 4. Construction Loans—Procedure; 5. Construction Loans—Disbursements; 6. Construction Loans—Completion Bonds; 7. Why Make Construction Loans?; 8.

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Loans for Reconditioning and Repairs; 9. F.H.A. Title I Loans; 10. Volume of Title I Loans; 11. Nature and Use of Loans Funds; 12. Title I Loans—Sundry Types; 13. Long-Term Mortgage Financing; 14. The Monthly-Payment Loan; 15. Loan Maturities; 16. Prepayment Rights; 17. Loan Percentage; 18. Variable Interest Rates; and 19. The Influence of Competition.

(855) "SOURCES OF FUNDS—PRIMARY MARKETS"—Chapter XXI (pages 381—402) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Availability of Mortgage Funds; 2. Distribution of the Non-Farm Mortgage Debt; 3. Mortgage Recordings of \$20,000 and Less—1946; 4. Primary and Secondary Sources; 5. Savings and Loan Associations; 6. Lending Powers—Savings and Loan Associations; 7. Life Insurance Companies; 8. Mutual Savings Banks; 9. Commercial Banks; 10. Individual and Other Lenders; 11. Mortgage Companies; 12. Other Means of Financing; 13. First Mortgage Bonds; 14. Other Mortgage Bonds; 15. Debenture and Income Bonds; 16. Leasehold Mortgage Bonds; 17. The Organized Exchange; 18. The Volume of Real Estate Securities Sold; 19. The Amott-Baker Price Average; 20. Appraisal of Price Changes; and 21. Appraisal of Future Prospects.

(856) "SOURCES OF FUNDS—SECONDARY MARKETS"—Chapter XXII (pages 403—428) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Reserve Credits in the Urban Real Estate Field; 2. Other Views on Mortgage Reserve Credit; 3. Emergency or Permanent Need; 4. Purposes of Reserve Mortgage Credit; 5. Marketability of Mortgages; 6. Safety and Liquidity; 7. The Federal Housing Administration; 8. Title II Provisions; 9. Section 207 Provisions and Activities; 11. Insurance Premium and Settlement; 12. Record of Defaults; 13. Some Observations; 14. The Sources of Secondary Funds; 15. The Reconstruction Finance Corporation; 16. The R.F.C. Mortgage Company; 17. The Federal National Mortgage Association; 18. The Home Owners' Loan Corporation; 19. The Federal Home Loan Bank System; 20. F.H.L.B. System—Pattern of Operations; 21. F.H.L.B. System—Sources of Funds; 22. F.H.L.B. System—Extent of Operations; 23. Other Secondary Market Facilities; and 24. Further Developments.

(857) "URBAN LAND CREDIT"—Chapter 8 (pages 207—232) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, N. Y., 1949.—533 pages; price: \$6.50

This chapter considers: 1. Function of Land Credit; 2. Forms of Land Credit; 3. Mortgage Financing; 4. Junior Mortgages; 5. Land Contracts; 6. Long-term Lease; 7. Home Financing; 8. Financing Construction; 9. Ground-rent Financing; 10. Refinancing; 11. Lending Terms; 12. Loan Servicing; 13. Pattern of Mortgage Lending; 14. Mortgage Risk Analysis; and 15. Financing Income Properties.

(858) "THE HOME MORTGAGE MARKET"—Chapter 9 (pages 233—279) of URBAN LAND ECONOMICS by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: \$6.50

This chapter considers: 1. Organization of the Market; 2. Mortgage Lenders; 3. Individuals; 4. Savings and Loan Associations; 5. Banks and Trust Companies; 6. Mutual Savings Banks; 7. Life Insurance Companies; 8. Other Lending Agencies; 9. Background of Federal Intervention; 10. Federal Home Loan Bank System; 11. Federal Savings and Loan Associations; 12. Federal Savings and Loan

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(859) "FINANCING PROBLEMS" (of Subdividing)—Chapter 12 (pages 100—106) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: \$5.75

This chapter considers: 1. Introduction; 2. Methods of Subdivision Financing; 3. Acquisition of Land; 4. F.H.A. Support; 5. Observance of Laws; 6. Sale of Stock; 7. Calculating Profit Bearing Possibilities; 8. Timing of Operations; 9. Sales Expenses; 10. Conclusions.

**(b) Application of the  
Method (Prototype  
Studies)**

(871) FINANCING HOUSE CONSTRUCTION IN THE NORTHWEST: A SURVEY OF SELECTED CITIES by Bayard O. Wheeler, College of Business Administration, University of Washington; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1951, as "Housing Research Paper No. 17."—55 pages; price: 30¢. Order copies from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Purpose and Scope of Study—Summary; 2. The Construction Credit Market; 3. Basic Concepts—Definitions; 4. Market Practice—Steps in the Construction Loan Process; 5. Construction Investment by Builder and Lender; 6. Cost to Builder of Construction Loan Funds; 7. Term (Length) of Construction Loans; 8. Conditional Requirements of Builders to Qualify for Construction Credit; 9. Inspections and Advances; 10. Liquidation of Construction Loans; 11. Net Yield on Construction Credit; 12. Adequacy of Construction Loan Funds; 13. Conclusions—The Influence of Construction Credit Upon the Cost and Volume of Building; 14. Appendix: The Field Survey—Method and Content.

**ABSTRACT.** A report on the results of a survey of the market practices of the construction loan field in the Northwest. It embraces the many steps involved in the process of financing single-family dwellings in four major Northwest cities. The construction loan credit markets in Boise, Idaho; Portland, Oregon; Seattle and Spokane, Washington, are surveyed and their components identified, with a comprehensive discussion of the flow and yield of construction investment funds. The place and significance of commercial banks, insurance companies, mortgage loan companies, mutual savings banks, and savings and loan associations, in the field of housing construction financing is explained. The various mortgage lending policies, as they affect home construction financing, are enumerated and their influence traced. The role of primary and secondary lenders, and their effect on the market, are reported. The entire survey was sponsored by the H.H.F.A. Staff technicians for the H.H.F.A. on the project were Dave Lowery and Fielding L. Huesmann.

(872) THE SAN FRANCISCO BAY AREA RESIDENTIAL MORTGAGE MARKET by Paul F.

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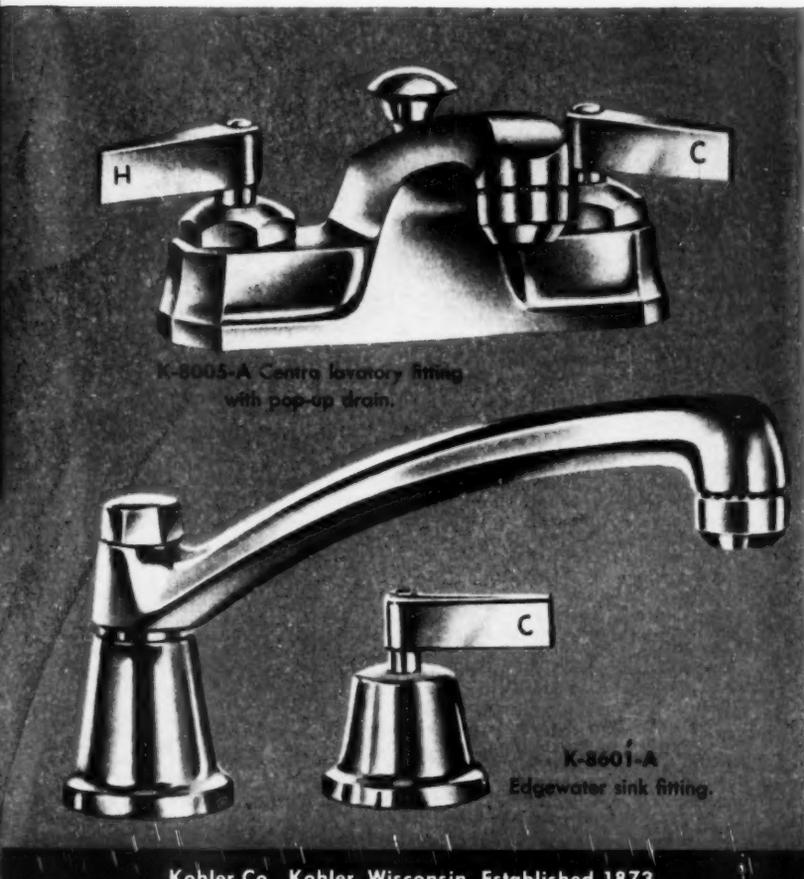
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Wendt and Daniel B. Rathlum, School of Business Administration, University of California; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1952, as "Housing Research Paper No. 20."—48 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Postwar Housing Market Developments in the San Francisco Bay Area; 2. The Supply of Mortgage Funds in the Bay Area; (a) Institutional structure; (b) Determinants of institutional structure; (c) Construction loans; (d) Conventional lending; (e) Insured and guaranteed loans; (f) Multifamily dwelling loans; (g) Secondary market; (h) Mortgage instruments; (i) Relation to other mortgage markets; 3. Review of Loan Policies and Procedures; (a) Banks; (i) Legal Controls; (ii) Mortgage lending policies; (iii) Practices of subgroups of lenders; (iv) The changing role of banks; (b) Savings and loan associations; (i) Legal controls; (ii) The role of savings and loan associations in the Bay Area; (ii) Mortgage lending policies; (iv) The future of savings and loan associations in the Bay Area; (c) Insurance companies; (i) Legal controls; (ii) Mortgage lending policies; (d) Individuals and other mortgagors; (i) Legal controls; (ii) Mortgage lending policies; (iii) Mortgage lending to minority groups; (iv) Department of Veterans Affairs, the State of California; 4. Synopsis; and 5. Appendix (Tables).

**ABSTRACT.** This report analyzes the organization and operations for mortgage financing in the San Francisco Bay Area in the years 1946-50. It describes the institutional structure for mortgage lending in the Bay Area and analyzes the role of the various types of lenders operating in the Area with regard to the different types of mortgage financing. It reviews the loan policies of the different lenders, pointing out the types of lenders which are most influential in making government-insured or guaranteed loans and conventional loans for long-term financing or for construction financing, which lenders are more active in making loans on multi-family dwelling properties and what is the relationship between outside sources of mortgage funds and mortgage lending in the Bay Area. The report also describes the legal framework within which each type of lender operates in the Bay Area and provides a brief description of housing market developments since World War II. The entire study was sponsored by the H.H.F.A. Staff technicians for the project were Dave Lowery and Henry B. Schechter.

(873) **CLOSING COSTS AND SETTLEMENT PAYMENTS IN THE JACKSONVILLE, FLORIDA MORTGAGE MARKET, FEBRUARY 15-AUGUST 15, 1950;** by the Bureau of Economic and Business Research, College of Business Administration, University of Florida; George B. Hurff, Director; Wylie Kilpatrick, Felix Muchlner, and Carter C. Osterbind, Research Professors; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1952, as "Housing Research Paper No. 22."—36 pages; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Three Basic Definitions; 3. The Classification of the Closing Costs in Settlement Statements; (a) The costs of mortgage financing incident to the purchase of property; (b) The cost of services incident to property ownership; (c) The cost of services and the fees and taxes incident to the purchase of property; (d) Costs related to construction of new houses; 4. Difficulties in Determining Cost, Its Incidence and Components; 5. Individual Closing Cost and Payment Items; (a) Title Insurance; (b) Mortgage Service Charge; (c) Hazard Insurance; (d) FHA insurance; (e) Property survey; (f) Closing fee; (g) Appraisal report; (h) FHA examination

fee; (i) Intangible tax on the mortgage; (j) Stamps on the note; (k) Inspection fees; (l) Credit report; (m) Prepaid interest; (n) Taxes; (o) Recording fees; (p) Stamps on deeds; (q) Construction loan fee; (r) Builders' risk insurance; (s) Water-tap deposit; (t) Summary comparison of typical closing costs; 6. Down Payments; 7. Summary of All Stated Settlement Items Borne or Paid by Mortgagor for Typical Loans; 8. Variations in Closing Costs and Payments and Lenders' Practices as Revealed by Their Typical Settlement Statements; 9. Appendix; (a) Information sources for tables; (b) Schedule of fees; and (c) Rates for title insurance.

**ABSTRACT.** The findings on loan closing costs and other settlement payments presented in this publication were obtained as part of a comprehensive study of operations of the residential mortgage market in Jacksonville during a 6-month period in 1950. This report provides for the first time an organized framework for discussion of the complex subject matter on closing costs. It provides an orderly organization of terms involved in the settlement of a home purchase transaction. In addition to the classification, the individual closing cost items are analyzed to show the services covered by each cost item. Finally, the report shows the magnitude of closing costs as found in the Jacksonville area during the period of the study. The entire study was sponsored by the H.H.F.A. Staff technicians for the project were Dave Lowery and Henry B. Schechter.

(874) **RESIDENTIAL MORTGAGE FINANCING, JACKSONVILLE, FLORIDA, FIRST SIX MONTHS OF 1950** by the Bureau of Economic and Business Research, College of Business Administration, University of Florida; George B. Hurff, Director; Wylie Kilpatrick, Felix Muchlner, and Carter C. Osterbind, Research Professors; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., December 1952, as "Housing Research Paper No. 23."—97 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Some Highlights of the Market; 2. Introduction; (a) Purpose and scope of the study; (b) The plan of presentation; (c) Principal sources of information; 3. The Jacksonville Mortgage Market; (a) Concept of a market; (b) Scope of the market; (c) A brief comment on the development and economic characteristics of Jacksonville; (d) Market components and attributes; (i) The mortgagors; (ii) The mortgagors; (iii) The builders of the pledged property; (iv) The sales contract and terms of settlement; (v) The mortgage contract; (vi) The real property securing the contract; (vii) The assignees; 4. The Position of the Borrower; (a) VA-guaranteed, FHA-insured, and FHA-VA combination mortgages on new residential structures; (b) VA-guaranteed, FHA-insured, and FHA-VA combination mortgages on existing structures; (c) Conventional mortgages on new and existing residential structures; (d) Characteristics of mortgages; (i) Interest rates; (ii) Amortization; (iii) Monthly payments; (e) Characteristics of Mortgagors; 5. The Role of the Lender; (a) Market-Wide Policies of Mortgagors; (i) Policies governing the approval of loan applicants; (ii) Interest rates; (iii) The use of the credit report; (iv) Policies as to the mortgage contract; (b) Summary comment on the roles of lender groups; (c) Role of the institutional lenders; (i) The role of real estate firms—and brokers; (ii) The role of the insurance companies; (iii) Role of savings and loan associations; (iv) Role of lumber and building supply companies; (v) The role of banks; (vi) The role of others; (d) Role of individual investors; (i) Number, type, and dollar volume of residential mortgages originated by individuals; (ii) Principal, interest rates, and amortization of first mortgages originated by individuals; (e) The scope and volume of lenders' operations; (f) Role of the lender; 1947-50; (ii) Participation of institutional lender groups: 1947-50; (iii) The participation of individual lenders; 1947-50; 6. The Role of the Builder and

his influence on mortgage financing; (a) The size of building firms; (b) Other characteristics of builders; (c) Construction loans; (d) Land purchase policies of builders; (e) Summary comments; 7. The Secondary Market; (a) Assignments; (b) Geographic location of major assignees; (c) Sources of long-term mortgage funds; (d) Legal position of out-of-state mortgagors; 8. Techniques; (a) Supplementing currently published housing finance data on a reporting basis; (b) Veterans Administration records as a source of information on mortgage financing and other settlement payments; (c) County records as a source of information on the flow of mortgage funds; (d) Data sources for special studies; (i) Mortgagor interviews; (ii) Interviews with lending institutions; (iii) Builder interviews; (iv) Information from county and city records; (v) Veterans Administration records in field offices; (vi) Information from confidential records; (vii) Other sources of information which could be used in special studies; (e) General comments; 9. Appendix A: Procedure and Sample Techniques Employed in Interviews of Mortgagors Initiating Residential Mortgages of \$500 to \$20,000 (inclusive) as Recorded in Jacksonville, Florida, for the Period February 15-August 15, 1950; (a) Introductory note; (i) Purpose of sample; (ii) Determination of the universe; (iii) Procedure of mortgagor interviews; (iv) Classification and designation; (v) Sampling techniques and results; (vi) Verification of 96 LCO mortgages; (vii) Extension of the preliminary mortgage universe; (viii) Mortgages selected for special study, including the pilot sample and the verified mortgages; 10. Appendix B: Tables, and Questionnaire Form.

**ABSTRACT.** This is a report analyzing the organizational structure for the financing of homes and its operation in the Jacksonville, Florida metropolitan area during the first 6 months of 1950. The material in this report, gathered in a survey sponsored by the H.H.F.A., analyzes the roles of the various types of lending institutions, the home builders and the home buyers with respect to mortgage financing in Jacksonville. Data are presented which bring out very clearly the major dependence of the Jacksonville housing market upon an influx of mortgage funds from outside sources. The support of Government home financing programs and the Government secondary market, as well as the support of large private outside lending institutions, is analyzed and measured in quantitative terms. The function and the importance of each type of local lender and outside lender operating in the Jacksonville mortgage market are described. The work underlying this report was carried on as part of an extensive program of studies of home financing and the mortgage market by the Housing and Home Finance Agency. See, for example, items (847), (873), and (39) of the present reading list. Professor Albert A. Ring of the University of Florida contributed importantly to the present study. H.H.F.A. staff technicians on the project were Dave Lowery and Henry B. Schechter.

(875) **"SMALL CITY MORTGAGE MARKET: HAGERSTOWN"** by Henry B. Schechter; in *Housing Research*, Fall 1951, pages 9-16; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

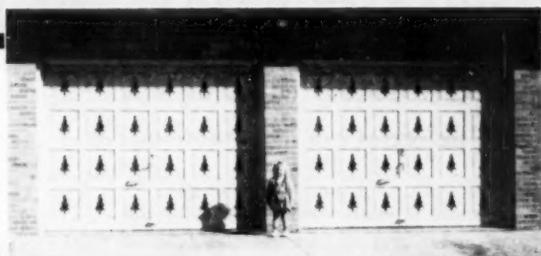
Includes a consideration of: 1. Economic Background; 2. Construction Financing Funds and Methods; 3. Financing Large-Scale Projects; 4. Sources of Long-Term Funds; 5. Mortgage Lending Practices; 6. The Borrowers; 7. Types of New Houses Provided; 8. Housing for Negroes; 9. Liquidation Experience of Mortgage Loans; 10. Credit Regulations; and 11. The Defense Housing Situation.

**ABSTRACT.** In 1950 the H.H.F.A. sponsored three research projects designed to produce a composite picture of mortgage market operations in representative United States localities. Though started before the emergency situation of 1950 developed, these studies are yielding valuable information on typical local situations into which stricter controls of real estate credit have been injected. The first article, presented here, describes



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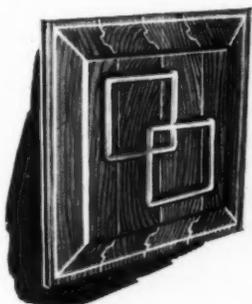
With the present day trend of incorporating the garage directly into the house—every builder recognizes the value and importance of a garage door with genuine eye appeal.

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mortgage activity in a small city on the eve of Regulation X. It is based on results of an HHFA research project conducted by the University of Maryland. For the second article of the series, which deals with the San Francisco Bay Area, see item (876) of this reading list. HHFA staff technicians on the Hagerstown and San Francisco projects were Harry L. Severson and Dave Lowery.

(876) "METROPOLITAN MORTGAGE MARKET: SAN FRANCISCO" by Dr. Paul F. Wendt and Daniel B. Rathbun; in *Housing Research*, Fall 1951, pages 17-25; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Structure and Loan Policies; 2. Conventional Loans Dominated by Banks; 3. Banks Supply Construction Credit; 4. Insured Lending led by Banks; 5. Banks Follow Leader on Policy; 6. Insurance Company Role Grows; 7. Saving and Loan Groups Play Lesser Part; 8. Individuals Still Important Mortgageors; 9. Government Agencies

and the Mortgage Market; 10. Lenders Use Private Secondary Market; 11. Effect of Credit Restrictions; 12. Backlog Exceeds Construction Volume; 13. Credit Curb Impact Delayed; 14. Loan Market Sensitive to Bank Policies; 15. Demand and Defense are Key Factors.

ABSTRACT. The San Francisco Bay Area is one of the fastest-growing metropolises in the United States. This article examines the intricate relationships among

different kinds of mortgage lenders in San Francisco and its satellite cities, and shows the place of each in metropolitan mortgage activities. The authors have prepared this article as a summary of preliminary results of an HHFA research project at the University of California. As in the case of item (875), above HHFA staff technicians for the project were financial economists Harry L. Severson and Dave Lowery.

## PART VII

## LABOR RELATIONS

(891) "THE SKEPTICISM OF LABOR"—Section 2 of Chapter 6: Problems in Industrial Change, of AMERICAN HOUSING; PROBLEMS AND PROSPECTS; The Factual Findings By Miles L. Coles; The Program By The Housing

Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

This section considers: a. Challenge of the CIO; and b. Change in AF of L Attitude.

## PART VIII

### (a) Building Codes and Regulations

## BUILDING, ZONING, and SUBDIVISION REGULATIONS

(901) "AN OUTLINE FOR RESEARCH ON BUILDING REGULATIONS" by Gilbert R. Barnhart; in *Housing Research*, Spring 1952, pages 29-38; published by the Housing and Home Finance Agency; Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Regulation as a Continuous Research Problem; 2. The Two Interested Groups; 3. General and Special Fields of Research; 4. Research as a Bridge Between Technology and Law; 5. The Relation of Building Regulations Research to General Building Research; (a) Changes in functions and uses of buildings; (b) The structure and internal standards of the building industry; 6. Direct Research on Building Regulations; (a) Purposes of public regulations; (i) Division of labor; (ii) Economic effects; (iii) Promotion of new purposes; (b) Technical provisions of public regulations; (i) Re-evaluation of hazards; (ii) Development of standards; (iii) Performance codes and test methods; (c) Administration of regulations; (i) Survey of legal powers; (ii) Survey of existing local codes and administrative agencies; (iii) Improvement of administrative powers and methods; 7. The Problem of Uniformity of Regulations; (a) The geographic scope of research; (b) Distribution of research findings through training courses; and 8. Summary.

ABSTRACT. Writing, administering, and keeping up to date the building codes and regulations in each city is a very large job. The purpose of this article is to demonstrate that this job requires continuous research through the cooperative efforts of many individuals and groups.

(902) "BETTER BUILDING CODES THROUGH BETTER ADMINIS-

TRATION" by Gilbert R. Barnhart; in *Housing Research*, March 1953, pages 53-58; published by the Housing and Home Finance Agency Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. The Challenge to Local Government; 2. The Administrative Factor in Use of National Code Standards; 3. The Concept of Effective Administration; 4. The HHFA Training Materials; 5. Defining Purposes; 6. State-Local Relationships; 7. Legal Principles; 8. Administrative Procedure; 9. Building Officials and Housing Codes; 10. Building Officials' Public Relations; and 11. Conclusion.

ABSTRACT. When building codes are discussed, the local government machinery for enforcing them usually receives far less attention than the technical requirements. However, effective local use of good technical requirements depends upon the capacity of the local building official and upon the administrative facilities available to him. The importance of improving code administration was pointed out in *Housing Research* No. 3, in an article entitled "An Outline for Research on Building Regulations," for which see item (901) of this reading list. Some materials for this purpose are now available as the result of HHFA contract research. The present article further discusses the role of administration in the local application of technical standards, and describes the use of the HHFA materials for the training of local building officials.

(903) "MODEL EMERGENCY BUILDING ORDINANCE"—Prepared by the Technology Branch of the Division of Housing Research, Housing and Home Finance Agency with the advice and assistance of the Advisory Committee on Administration of Local Building Regulations; published by the Housing and Home Finance Agency, Division of

Housing Research, Washington, D. C., July 1951.—8 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Introduction; 2. Model Ordinance; and 3. Notes on the Model Ordinance.

ABSTRACT. A pamphlet containing model provisions for building codes and related ordinances which authorize the building official, during periods of shortages, to permit builders to use available alternate and substitute materials and methods of construction. The pamphlet includes a set of notes which explain the purpose of each provision in the model ordinance.

(904) PREPARATION AND REVISION OF BUILDING CODES by George N. Thompson; Building Materials and Structures Report BMS 19; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1939.—18 pages; price: not available. Superseded by Building Materials and Structures Report BMS 116, listed immediately below as item (905).

(905) PREPARATION AND REVISION OF BUILDING CODES by George N. Thompson; Building Materials and Structures Report BMS 116 (Supersedes BMS 19); published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 1, 1949.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. What the Building Code Is; 3. Extent of Code Requirements; 4. Police Power;

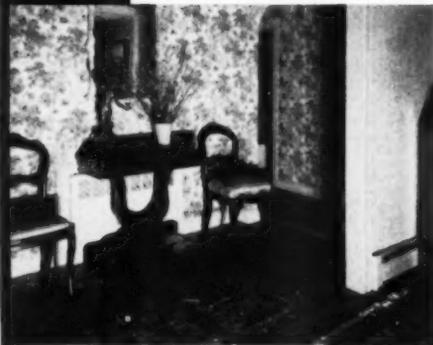
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5. Effect on Community; 6. Tests for Codes; 7. Methods of Starting Code; 8. Composition of Local Committees; 9. Study of City Needs; 10. Collection of Available Material; 11. Methods of Preparing Code; 12. Use of Consultant; 13. Code Arrangement; 14. Performance Basis; 15. Use of Standards; 16. Acceptance of New Materials and Methods; 17. Rules and Regulations; 18. Provisions for Changes in Code; 19. Enforcement; 20. Board of Appeal; 21. Appendix; 22. Conclusions; and 23. Selected References.

**ABSTRACT.** Building construction has been subjected for many years to legal control in the interest of safety and health. While there is general agreement on the need for this, specific applications in the form of building codes have been frequently criticized on the grounds of imposing excessive expense and of failing to make adjustments to changing conditions. The responsibility for preparing or revising building codes usually falls upon local committees. These are called upon to do a great deal of tedious and exacting work. One of their first problems is to determine what source material is available and how they should proceed. In this discussion, a description is given of how such work is done and useful sources of technical information are indicated. Some of the problems that are encountered by local committees are mentioned, including what basic principles are involved; methods of presentation, arrangement, and numbering; advantages of using national standards and ways of referring to them; methods of recognizing new materials and new methods of construction; extent of delegation of authority to the building official and safeguards against arbitrary action; and other questions of major importance. An attempt has been made to place committees in possession of sufficient information to proceed in their work with a minimum of lost motion. Not all questions can be answered with finality, since the situation is complicated by the existence of proposals of nearly equal merit and by differing judicial decisions. Such differences will no doubt continue to exist for some time; but they are not of sufficient importance to be allowed to obscure the main objective of providing adequate protection without creating too much of a drag on the building industry. Constructive work in the field of building-code requirements has been going on continuously for some time and will exert an ever-increasing influence. This discussion is offered to supplement such work and as a contribution to the orderly development of good requirements. Efficient use of building materials depends not only on accurate knowledge of their characteristics but also on the legal restrictions imposed by public authorities in the interest of safety. If these restrictions do not recognize late developments in design and construction that have been found to be safe, they may cause unnecessary expense, prevent the free exercise of ingenuity in design, and discourage the introduction of new materials and methods. This report discusses the great and growing mass of basic material which must be examined and endeavors to indicate a procedure through which full advantage may be taken of developments in the laboratory and in the field, while preserving the primary object of safeguarding the public.

(906) **BUILDING CODE REQUIREMENTS FOR NEW DWELLING CONSTRUCTION** - Recommended by the National Housing Agency and Prepared in Consultation with The National Bureau of Standards; Building Materials and Structures Report BMS 107 (Note: Supersedes report BMS 88); published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued January 1, 1947.—43 pages; Out of print. See your librarian.

Recommended minimum requirements for dwelling construction, developed by the National Housing Agency in consultation with the National Bureau of Standards, are presented for consideration by local authorities in revising their building codes. The requirements are based on an earlier publication "Recommended Building Code Requirements for New Dwelling Construction," which has been revised in the light of suggestions from governmental housing agencies, the Forest Products Laboratory, and many industrial organizations. They make free

use of national standards, with such additions, modifications, and exceptions as the experience of the housing agencies has demonstrated to be advisable in the case of dwelling construction. An appendix supplies information intended to be helpful in applying and interpreting the provisions of the requirements themselves. Pages 36-43 provide an exhaustive index. The separate sections of the work are too numerous to permit listing here.

(907) "A PROGRAM FOR LOCAL TRAINING OF BUILDING OFFICIALS." by Gilbert R. Barnhart in *Housing Research*, October 1953, pages 33-39; published by the Housing and Home Finance Agency, Washington, D. C. price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. What Can Training Do?; 2. The Professional Objectives of the Building Official; 3. The Organization and Technical Subject Matter of the Profession; 4. Organization of the Training Program.

ABSTRACT. There is increasing awareness that more effective community organization is needed for dealing with the forces which create blight and slums. This is leading to recognition that the function of the local building official can be an important part of such organization. The present article suggests a training program to be undertaken by building officials to prepare themselves and the personnel under their supervision for greater participation in community development. The material was originally presented in a speech at the annual meeting of the Building Officials Conference of America, at Dallas, Texas, April 6, 1953 by Mr. Barnhart.

(908) "LAG IN THE USE OF RESIDENTIAL BUILDING PERMITS" by Kathryn R. Murphy; in *Housing Research*, Winter 1951-1952, pages 47-50; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Building Permit Lapses; 3. The Lag Pattern; 4. Effect of New Patterns on the Starts Estimate; 5. Construction Cost and Permit Valuation; and 6. Conclusion.

ABSTRACT. Precise information on the national rate of home building is especially important during the emergency, to help achieve defense objectives. Lag and lapse in the use of building permits are factors used by the Bureau of Labor Statistics in computing its monthly estimates of nonfarm "dwelling starts." These factors are naturally subject to the impact of emergency economic regulations and changing defense requirements. HHFA therefore sponsored special studies by the BLS to determine recent changes in the lag and lapse pattern. Partial results of these surveys are summarized in this article by Kathryn Murphy of the Construction Statistics Division of BLS. Arthur C. Germand was HHFA staff technician on the project.

### (b) Plumbing Codes

(921) "DEVELOPMENT OF NATIONAL PLUMBING CODE" by Laurence Shuman; in *Housing Research*, Spring 1952, pages 46-51; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

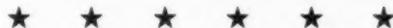


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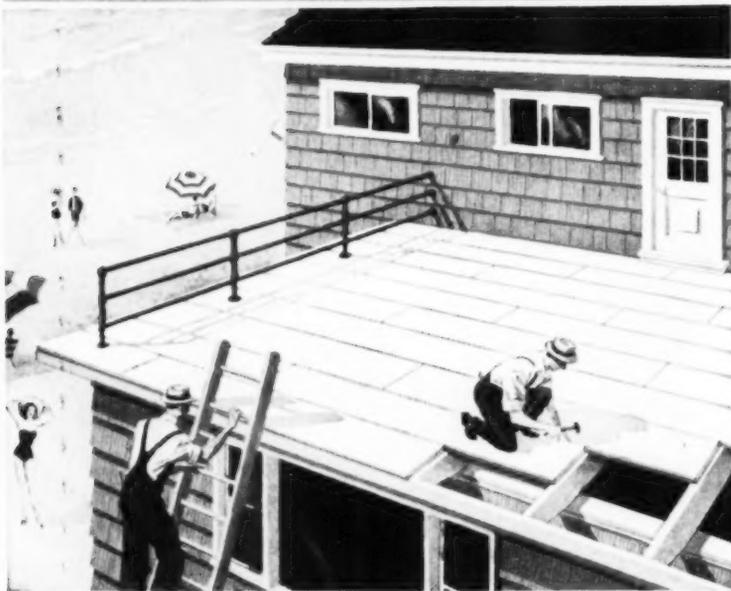
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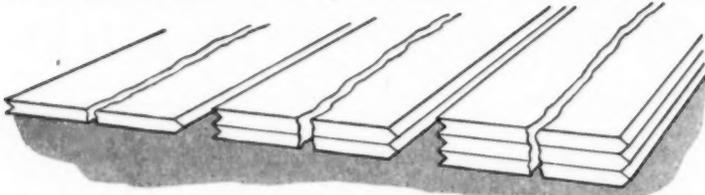
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Includes a consideration of: 1. Introduction; 2. The BH (Building and Housing) Codes, 2 and 13; 3. The Central Housing Committee—BMS 66 (for which see item (553) of this reading list); 4. American Standards Association—A.40.7; 5. Emergency Plumbing Standards—O.E.M.; 6. Uniform Plumbing Code for Housing—Technical Paper No. 6 (for which see item (1222)). It has since been superseded by the "Report of the Coordinating Committee for a National Plumbing Code," for which see item (922) of the present reading list.; 7. Western Plumbing Officials Association Code; 8. National Association of Master Plumbers Code; 9. American Society of Sanitary Engineering; 10. National Plumbing Code—item (922) of this reading list; and 11. Conclusion.

ABSTRACT. While the Housing Act of 1949 consolidated the responsibility for government housing research within the HHFA it should not be concluded that research activities of government in housing began at that time. An integrated approach to sound housing construction and planning, including plumbing, has long been an aim of government. As early as May 1921 a comprehensive effort toward the standardization and understanding of plumbing codes and principles of this country was made by the United States Department of Commerce. Cooperation of groups from all phases of the plumbing industry in and outside of government carried the work to its present sound position. The present article traces the development of plumbing research through its many phases to the final preparation and publication of a National Plumbing Code.

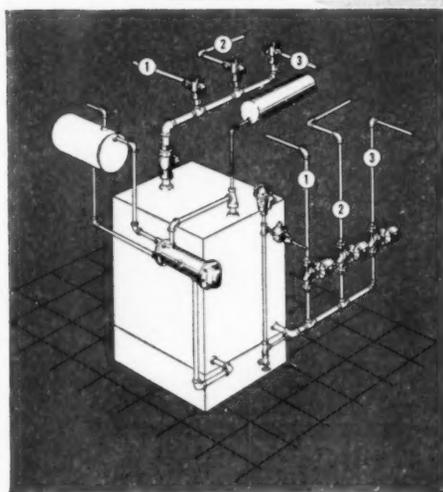
(922) REPORT OF THE COORDINATING COMMITTEE FOR A NATIONAL PLUMBING CODE—Prepared jointly by the Committee; published jointly by the Housing and Home Finance Agency, and by the Department of Commerce, National Production Authority (as Domestic Commerce Series No. 28), Washington, D. C., June 1951.—125 pages; price: 50¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Foreword; 2. National Plumbing Code Committee; 3. Basic Principles; 4. Definitions; 5. General Regulations; 6. Materials—Quality and Weight; 7. Joints and Connections; 8. Traps and Cleanouts; 9. Interceptors, Separators, and Backwater Valves; 10. Plumbing Fixtures; 11. Hangers and Supports; 12. Indirect Waste Piping and Special Wastes; 13. Water Supply and Distribution; 14. Drainage System; 15. Vents and Venting; 16. Storm Drains; 17. Inspection, Tests, and Maintenance; 18. Appendix A: Individual Water Supply; 19. Appendix B: Individual Sewage-Disposal System; 20. Appendix C: Air Gaps, Backwater Preventers, and Drinking Fountain Standards; 21. Appendix D: Sizing the Water-Supply System; 22. Appendix E: Data on Administration; 23. Appendix F: Trailer Coach Plumbing Standards; 24. Appendix G: Trailer Park Plumbing Standards.

ABSTRACT. This report of the Coordinating Committee for a National Plumbing Code represents a consensus of the members of the Coordinating Committee and its Advisory Committee. It is based on experience and conclusions reached from research in the field of plumbing conducted at the National Bureau of Standards, the University of Iowa, the University of Illinois, the Public Health Service Environmental Health Center at Cincinnati, and other laboratories. Such research has contributed facts which have made possible a better understanding of phenomena observed in service and has provided a valuable basis for development of improved code requirements. (The National Plumbing Code Coordinating Committee A. F. Dappert and M. W. Cowles of the American Public Health Association; F. M. Dawson, Chairman, Albert H. Morgan, of the American Society of Mechanical Engineers; Herbert L. Schaller, Homer Yetman, Norbert Melnick, and John Bronzoni, of the American Society of Sanitary Engineering; L. Glen Shields and John P. Austin of the Building Officials Conference of America; Malcolm C. Hope and Earl Devendorf of the Conference of State Sanitary Engineers; Henry S. Blank and John H. Niewolner of the National Association of Master Plumbers; Vincent T. Manas, Executive

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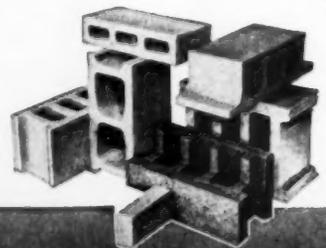


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Secretary, Henry S. Blank, and George N. Thompson, of the Uniform Plumbing Code Committee; and Stephen I. Smoot and Robert A. Wood of the Western Plumbing Officials Association.



- (931) "PLANNING AND ZONING"—Chapter XXVI (pages 488-509) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00
- Includes a consideration of: 1. Underlying Foundation of Rights; 2. The Nuisance Doctrine; 3. The Meaning of "Police Power"; 4. Distinction Between Police Power and Eminent Domain; 5. Basic Character of Police Power; 6. Application and Scope of Police Power; 7. Building Codes; 8. Zoning; 9. Rules of Zoning; 10. Zoning Ordinances; 11. An Example of the Application of Zoning Laws; 12. Legal Test of Zoning; 13. Limitations of Zoning Power; 14. Restrictions in Deeds; 15. Planning; 16. Need for Planning; 17. Need for Legal Authority; 18. Economic Problems of Planning; 19. Creation of Planning Agencies; 20. Urban Redevelopment; 21. Responsive and Corrective Action; 22. Nature of Legislative Provisions; 23. Means of Financing; and 24. Scope of the Problem.

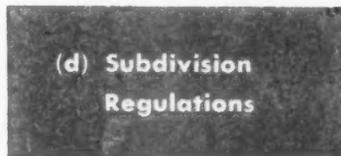
- (932) "ZONING"—Chapter 11 (pages 218-247) of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages.

This chapter considers: PART I: INTRODUCTION; a. Nature and Character of Zoning; b. What Zoning is not; c. Advantages of Zoning; d. Legality of Zoning Ordinances; and e. Interim Zoning Ordinances; PART II: ZONING DISTRICTS AND REQUIREMENTS; a. Regulation of the Use of Land and Buildings; b. Regulation of Building Heights; c. Area Regulations; d. Other Provisions of Ordinance; PART III: PROCEDURES FOR THE ESTABLISHMENT AND REVISION OF ZONING MAPS AND ORDINANCES; a. Preliminary Steps; b. Preparation of Tentative Zoning Map and Ordinance; c. Conduct of Hearings on Tentative Map and Ordinance; d. Adoption and Final Steps; and e. Revising Existing Zoning Maps and Ordinances; PART IV. ADMINISTRATION OF THE ZONING ORDINANCE; a. The Commissioner of Buildings; b. The Board of Zoning Appeals or Adjustment; c. Amending the Zoning Map or Ordinance; and d. Enforcement of the Zoning Ordinance.

- (933) COMPARATIVE DIGEST OF MUNICIPAL AND COUNTY ZONING ENABLING STATUTES (For Reference in Community Planning, Housing, Slum Clearance, and Urban Redevelopment Programs) As of October 31, 1952. Prepared by the Housing and Home Finance Agency, Division of Law, Washington, D.C.; published by the Housing and Home Finance Agency, Division of Law, Washington, D. C. in 1953.—70 pages, plus xvi; price: 60¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Folding Chart: "Comparative Analysis of Municipal Zoning Enabling Statutes"; 2. Introduction; 3. Explanatory Notes to Chart on Municipal Zoning Law Provisions; 4. Explanatory Notes to Chart on County Zoning Law Provisions; 5. A Typical Zoning Enabling Statute; (a) The West Virginia

zoning enabling statute; (b) Power of municipalities to zone extraterritorially; (c) Zoning of metropolitan areas containing several local governments; (d) Elimination of nonconforming uses; (e) zoning commission authorized to adopt zoning ordinance; (f) Amendments; (g) Combined general statute for municipalities and counties; 6. Discussion and Cases Regarding Certain Particularly Important Zoning Problems; (a) Power of administrative body to enact zoning ordinance; (b) Power of municipality to zone extraterritorially; (c) Amendment to Ordinance changing zone restricted to single family dwellings to allow construction of apartments; (d) Minimum floor area and cubic footage requirements; (e) Requirements for off-street parking and loading facilities; (f) Requirement that nonconforming uses be terminated after a fixed period; (g) effect of zoning ordinance on private covenant requiring a more restrictive use; (h) Application of local zoning regulations to projects constructed by the Federal Government; 7. Community Zoning Statutes of the States and Territories. ABSTRACT. This comparative digest is the second of a series of legal studies undertaken by the Division of Law, Office of the Administrator, Housing and Home Finance Agency. These studies are designed to make readily available to interested public authorities and private persons, and to the home building industry, certain state statutory materials that determine to a considerable extent the character of community slum clearance, urban redevelopment, and housing developments. Pages i-xvi provide a general discussion of the subject. The remaining 70 pages provide a state-by-state summary. Similar information is also given for Alaska, Guam, Hawaii, and Puerto Rico.



- (941) "URBAN LAND POLICIES"—Chapter 14 (pages 406-433) of URBAN LAND ECONOMICS by Richard U. Ratchiff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: \$6.50

This chapter considers: 1. Nature of Social Control; 2. City Planning; 3. The Planning Process; 4. Zoning; 5. Subdivision Control; 6. Taxation of Real Property; 7. Incidence of Taxation; 8. Tax Administration; 9. Deficiencies of the Property Tax; 10. Direct Government through Tax Policy; 11. Urban Redevelopment; 12. Inhibitors of Succession; 13. Resistance of Net Revenue to Decline; 14. Withholding for a Future Higher Use; 15. Diversity in Economic Expectancy; 16. Inefficient City Structure; and 17. Redevelopment Legislation.

- (942) SUGGESTED LAND SUBDIVISION REGULATIONS — Prepared in the Housing and Home Finance Agency by the Division of Housing Research and the Community Planning Branch of the Division of Slum Clearance and Urban Redevelopment, Office of the Administrator, and the Land Planning Section, Federal Housing Administration. (For the names of individual contributors, see under Abstract, below; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., February 1952.—65 pages; price: 45¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Purposes and Objectives of Subdivision Regulations; 2. Suggested Subdivision Regulations; (a) Definitions; (b) Procedures; (c) Design Standards; (d) Required Improvements; (e) Plats and Data; (f) Variances; 3. Appendices; (a) FHA

Data Sheets on Subdivision Exhibits; (b) FHA Data Sheets on Protective Covenants; (c) Bibliography; and (d) Listing of HIFA and Constituent Agencies, and Local FHA Insuring Offices. ABSTRACT. A manual prepared to assist those charged with community planning and building, based largely on the studies, experiences, and considered judgment of authorities in this field. The work is illustrated with sketches of suggested subdivision layouts, and includes sections on procedures (pre-application, conditional approval of preliminary plat, and approval of final plat), etc. It also discusses the advantages of sound subdivision regulations for home owners, land developers, investors, and local government interests, such as planning, police, fire, engineering, school, and park officials. The regulations suggested apply not only to the more customary subdivisions providing lots for individual dwellings, but also reflect full recognition of the important growing trend towards large-scale development such as complete residential communities, integrated neighborhood units, or new towns involving special problems of community planning. Assistance in the preparation of the text was given by Andre M. Faure and Byron R. Hanke of the Federal Housing Administration, and by Carl Friss, Richard Ives, Harold Merrill, Helen Monbow and John R. Scarles, Jr., of the Division of Slum Clearance and Urban Redevelopment. The American Institute of Architects, the American Society of Planning Officials, the American Institute of Planners, the Urban Land Institute, the National Safety Council, the National Association of Home Builders, and The Chamber of Commerce of the United States, were among the organizations which helpfully reviewed and criticized the preliminary draft of the text.

- (943) SUBDIVISION REGULATIONS; AN ANALYSIS OF LAND SUBDIVISION CONTROL PRACTICES by Harold W. Lautner; published by Public Administration Service, Chicago, Illinois, 1941.—346 pages; price: \$3.75.

Includes chapters on: 1. General Considerations; 2. Procedure for Securing Plat Approval; 3. General Subdivision Standards and Design Requirements; 4. Requirements on Plats; 5. Requirements on Grading Plans and Profiles; and 6. Improvements Required in the Subdivision. The work also includes many tables, figures and references.

- (944) "LAND SUBDIVISION REGULATION"—Chapter 12 (pages 248-267) of LOCAL PLANNING ADMINISTRATION, Second Edition; published for the Institute for Training in Municipal Administration by The International City Managers' Association, 1313 East 60th Street, Chicago, Illinois, 1948.—337 pages; price: \$7.50.

This chapter considers: 1. What is Land Subdivision Regulation?; 2. Necessity and Benefits of Land Subdivision Regulation; 3. Legislative Authority for Land Subdivision Regulation; 4. Regulations for Controlling Land Subdivision; and 5. Obtaining Official Approval of Subdivision Plats.

## NOTICE

*The Index to this Bibliography is still in process of preparation by the National Association of Home Builders. American Builder will publish the index as soon as possible after its completion, thereby making available the first comprehensive listing of reference material for all phases of home building.*

# PART IX

# MERCHANDISING

## (a) Real Estate Sales Principles

- (961) "FUNCTIONS AND RELATIONSHIPS OF THE REAL ESTATE SALESMAN"—Chapter 7 (pages 63-68) in Section Two: Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Selection of Company; 2. Trade Association Membership; 3. Terms of Relationship; 4. Employer's Responsibility; 5. Remuneration; 6. Fee for Listings; 7. Written Contract; 8. Company Rules; 9. Disputes; 10. Obtaining Listings; 11. Salesman-Buyer Relationship; 12. Financing; 13. Explain Sales Expenses; 14. Know the Answers; and 15. Personal Qualities. This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

- (962) "THE SALE OF REAL ESTATE"—Chapter XVII (pages 304-321) of REAL ESTATE ANALYSIS; edited by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Area of Study; 2. Special Characteristics of Real Estate Sales; 3. The Three Needs; 4. The Need for Confidence; 5. The Need for Information; 6. Type of Information Needed; 7. Low- and High-Pressure Selling; 8. The Need for Advice; 9. Buyers' and Sellers' Markets; 10. Agencies of Sale; 11. Methods of Lighting; 12. Methods of Sale; 13. Auctioning of Real Estate; 14. Trades; 15. Schedule of Commissions; 16. The Sales Contract; 17. Closing the Sale; 18. The Importance of Financing; and 19. The Summary View.

- (963) PRACTICES AND PRECEPTS OF MARKETING PREFABRICATED HOUSES by Glenn H. Beyer and Theodore R. Yantis, Cornell University, Ithaca, New York; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., November 1952.—58 pages; price: 35¢. Order copies from Superintendent of Documents, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Section I. Existing Marketing Practices; (a) Description of retail outlets; (i) Types of retail outlets; (ii) Business backgrounds of dealers; (iii) Reasons for becoming a dealer; (iv) Size of dealer operations; (v) Age of dealerships; (vi) Size and location of cities served; (b) Retailer (Dealer)-Customer Relations; (i) Classification of customers; (ii) Sales practices of dealers; (iii) The finance problem; (iv) Erection practices of dealers; (v) Service function of dealers; (c) General problems of the Retailer (Dealer); (i) Land development; (ii) Building codes; (iii) FHA minimum standards; (iv) Labor; (d) Retailer (Dealer)-Manufacturer Relations; (i)

Degree of prefabrication; (ii) Degree of Standardization of basic house; (iii) Channels of distribution; (iv) Sales organizations of manufacturers; (v) Selection of dealers; (vi) Dealer franchises; (vii) Controls exercised by manufacturers; (viii) Services furnished dealers by manufacturers; (ix) Transportation and storage; (x) Damage and shortage; (xi) Pricing policies of manufacturers; 3. Section II. Precepts for Marketing Prefabricated Houses; (a) Analysis of the market; (b) The product in relation to the market; (c) The product in relation to channels of distribution; (d) Sales policies; (i) Sales organization; (ii) Management of selling; (iii) Advertising; (iv) Control of sales program; (v) Pricing; (e) Finance policy; (f) Erection and service policies; (g) Conclusion; (4) Special Supplement: Defense and War Implications on Marketing Prefabricated Houses; (a) Analysis of the market; (b) The product in relation to the market; (c) The product in relation to channels of distribution; (d) Sales policies; (e) Finance policy; (f) Erection and service policies; (g) Conclusion; 5. Appendix; (a) Need for further research; (b) Methodology; (c) Glossary; (d) List of manufacturers interviewed; and (e) List of dealers interviewed.

**ABSTRACT.** This book presents an analysis of present marketing practices in the prefabricated housing field based upon interviews with more than 40 manufacturers and 120 dealers. Types of retail outlets in use; the dealers' background, organization, and sales volume; dealer-manufacturer and dealer-customer relations; financing difficulties; and erection and service practices are considered. Following the analysis of present practices, the second section of the book sets forth a series of precepts for the effective marketing of prefabricated houses. It includes analysis of the market for prefabricated houses, proper integration of the houses in that market, sales and advertising policies, financing, and the formulation of satisfactory erection and service policies. A special supplement presents briefly the implication of defense or war conditions upon the marketing of prefabricated houses. The study was prepared by Cornell University's Housing Research Center under a research contract with the Division of Housing Research, Housing and Home Finance Agency. The authors were assisted in the research work by Professor James W. Partner and others. Valuable assistance was also given by Harry H. Steidle, manager of the Prefabricated Home Manufacturers' Institute, by Foster Gunnison, founder of Gunnison Homes, Inc., and by Frank P. Flynn, Jr., executive vice president of the National Homes Acceptance Corporation. Under the general direction of Joseph H. Orendorff, Director of HHFA's Division of Housing Research, the project was supervised by E. Everett Ashley, 3rd, Chief of HHFA's Housing Economics Branch.

## (b) Advertising

- (981) "PUBLICITY AND ADVERTISING" (in Subdividing)—Chapter 31 (pages 300-310) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael, published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: \$5.75

This chapter considers: 1. Necessity for Advertising; 2. Kinds of Advertising Media; 3. Comparison of Results; 4. Selecting the

Newspaper; 5. Cost of Advertising; 6. Handling Telephone Responses; 7. Truth in Advertisements; 8. Descriptive Booklets; 9. Billboards; 10. Advertising Novelties; 11. News Stories; 12. Institutional Advertising; 13. Slogans; 14. Ground-Floor Office Location; and 15. Rising Costs of Advertising.

- (982) "INSTITUTIONAL ADVERTISING, PUBLICITY"—Chapter 1 (pages 325-338) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

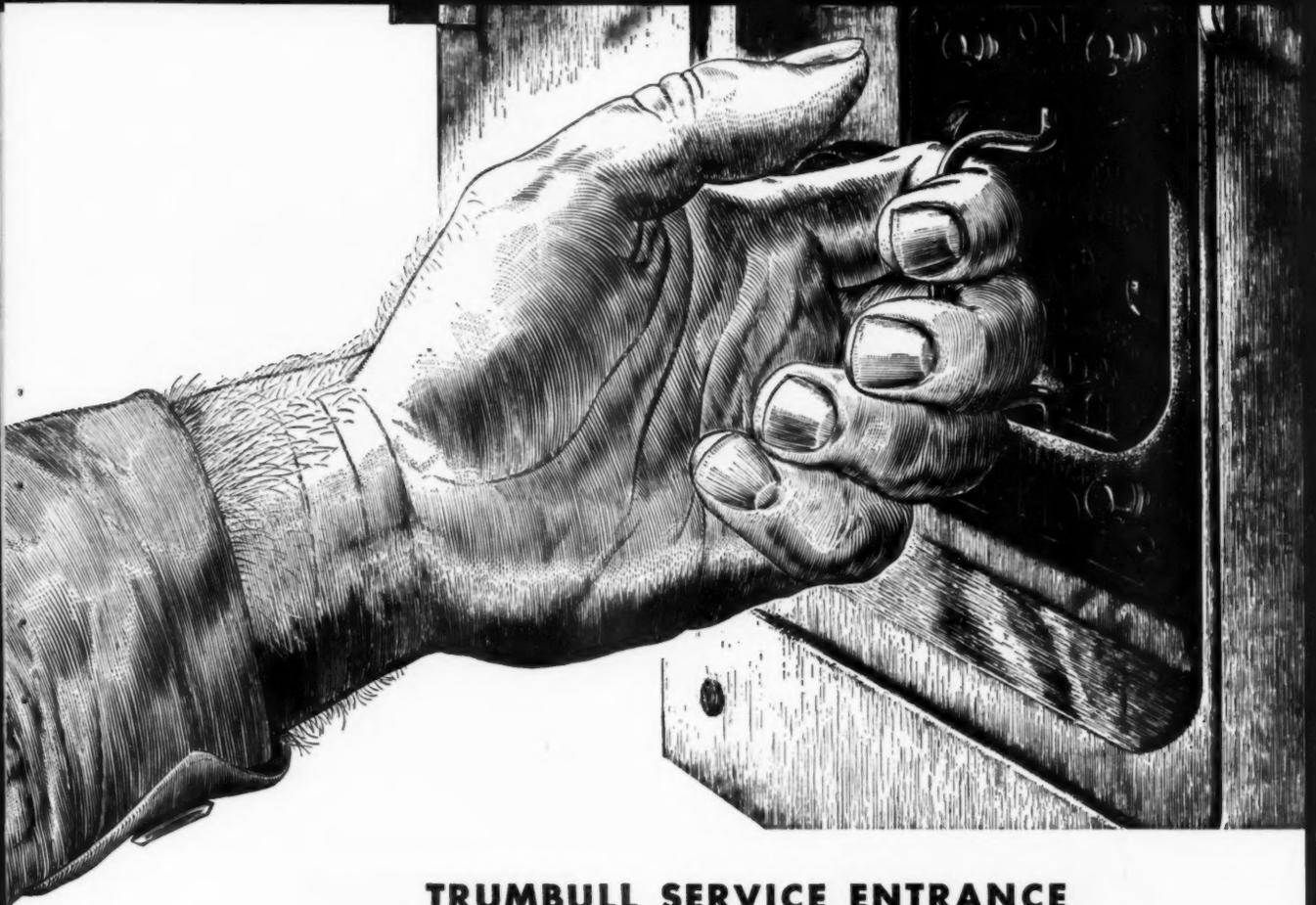
This chapter considers: 1. Types of Institutional Advertising; 2. Keeping the Firm's Name Before the Public; 3. Institutional Advertising to Create Good-Will; 4. Institutional Advertising to Make Services Known; 5. Cooperative Institutional Advertising of Services; 6. Institutional Advertising to Boost the Community; 7. Real Estate Board Advertising; 8. Institutional Advertising to Educate in a Particular Phase of Real Estate; 9. Institutional Advertising of the Entire Industry; 10. Kansas City Real Estate Board's Double-Barreled Campaign; 11. News Publicity as Institutional Advertising; and 12. Publicity Through Writing and Speaking.

- (983) "CLASSIFIED ADVERTISING"—Chapter 2 (pages 339-351) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Why some Classified Advertising Fails; 2. The Desirability of Property as a Factor in Classified Ads; 3. Price in Relation to Classified Advertising; 4. Effect of Unfavorable Market; 5. Well-Prepared Copy; 6. Examination of Property Prior to Advertising; 7. Analysis of Prospects; 8. What Point to Stress; 9. Writing the Classified Copy; 10. How to Attract Attention; 11. Making Headlines Specific; 12. How to Create Desire; 13. How to Convince the Reader; 14. How to Cause Action to be Taken; 15. Classified Advertisements Using Display Idiom; 16. Newspaper Limitations Upon Set-up of Classified Ads; 17. Estimating Space of Classified Ads; 18. Layout of the Classified Advertisement; 19. Distinction Through White Space; 20. Selection of the Newspaper; 21. Timing the Classified Advertisement; 22. Repetition of Advertisements; and 23. Checking Results of Classified Advertising.

- (984) "DISPLAY ADVERTISING"—Chapter 3 (pages 352-360) of Section Eight: Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Advertising Agencies; 2. Buying Space; 3. Rates; 4. Special Rates; Preferred Positions; 5. Size of Display and its Attention-Getting Power; 6. Illustrations; 7. Suggestions for Illustrating; 8. Typography; 9. Preparation of Display Advertisements; 10. Writing Copy; 11. How to Attain a Good Arrangement; 12. What is a "Layout"; 13. Getting Ideas for Display Advertising.



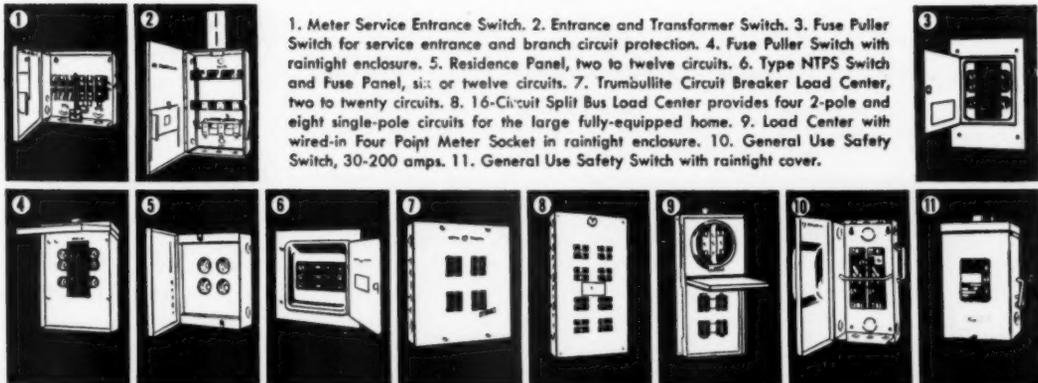
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# GENERAL ELECTRIC



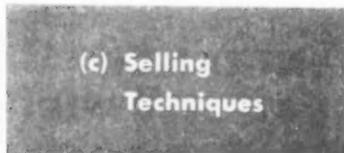
1. Meter Service Entrance Switch. 2. Entrance and Transformer Switch. 3. Fuse Puller Switch for service entrance and branch circuit protection. 4. Fuse Puller Switch with raintight enclosure. 5. Residence Panel, two to twelve circuits. 6. Type NTPS Switch and Fuse Panel, six to twelve circuits. 7. Trumbullite Circuit Breaker Load Center, two to twenty circuits. 8. 16-Circuit Split Bus Load Center provides four 2-pole and eight single-pole circuits for the large fully-equipped home. 9. Load Center with wired-in Four Point Meter Socket in raintight enclosure. 10. General Use Safety Switch, 30-200 amps. 11. General Use Safety Switch with raintight cover.

(985) "DIRECT MAIL ADVERTISING"—Chapter 4 (pages 361-377) of Section Eight; Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

Includes a consideration of: 1. Building up a Mailing List; 2. Forms of Direct-Mail Advertising; 3. Form Letters; 4. Example of Campaign with Single Sales Letter and Sales Follow-Up; 5. Four-page Letters; 6. Leaflets; 7. Folders; 8. Circulars; 9. Booklets; 10. Brochures; 11. Mailing Cards; 12. Post Cards; 13. House Organs; 14. Maps; 15. Single-page Announcements; 16. Customers' Cards; 17. Mimeographed Floor Plans; 18. Pictorial Bulletins; 19. Blotters; 20. Printing Media for Direct Mail; 21. Preparation of Direct Mail Advertising; 22. Typography and Illustration; 23. Dummying the Advertisement; 24. Testing Direct Mail; and 25. The Return Card.

(986) "BILLBOARDS, SIGNS, AND OTHER SPECIAL ADVERTISING FORMS"—Chapter 5 (pages 378-388) in Section Eight; Advertising, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Billboards; 2. Signs; 3. What to Place on Signs; 4. Car Cards; 5. Window Displays; 6. Testing the Window Display; 7. Radio as a Medium; 8. Newsletters; 9. Advertising Value of the Office; 10. Office Windows; 11. Business Cards; 12. Letterheads; 13. Combined Institutional and Specific Property by Direct Mail; and 14. Bibliography.



(1001) "OBTAINING PROSPECTS"—Chapter 3 (pages 43-46) in Section Two; Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Types of Prospects; 2. Cataloging Prospects and Properties; 3. Sources of Prospects' Names; 4. The Property Itself and the Owner; 5. Previous Unsatisfied Prospects; 6. Contact with the Market; 7. Lists of Names; 8. Newspaper Stories; 9. Personal Contacts; 10. Advertising; and 11. House-to-Canvasses.

This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1002) "SHOWING PROPERTIES"—Chapter 4 (pages 47-50) in Section Two; Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Selection of Method for showing; 2. Terms of Purchase; 3. Planning the Showing; 4. Preparing the Property for Showing; 5. Preparing the Broker; and 6. Objections.

This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1003) "SELLING TECHNIQUES" (in Subdividing)—Chapter 32 (pages 311-322) of REAL ESTATE SUBDIVISIONS by Stanley L. McMichael; published by Prentice-Hall, Inc., New York, N. Y., 1949.—394 pages; price: \$5.75

This chapter considers: 1. Introduction; 2. Preparation; 3. Approach; 4. Attention; 5. Interest; 6. Desire; 7. Action; 8. Signing the Contract; 9. Helpful Publicity Material; 10. Sources for New Prospects; 11. Classification of Prospects; 12. Time-Saving Rules for Salesmen; and 13. Conclusion.

(1004) "SALES APPROACHES FOR VARIOUS TYPES OF PROPERTY"—Chapter 5 (pages 51-58) in Section Two; Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Sale of Homes; 2. Sale of Home Sites; 3. Sale of Industrial Property; 4. Selling Business Properties; 5. Selling Farms; and 6. Check List of Facts for Selling Farms.

This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1005) "CLOSING THE DEAL"—Chapter 6 (pages 59-62) in Section

Two; Brokerage, of THE REAL ESTATE HANDBOOK; edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

This chapter considers: 1. Legal Advice; 2. Transaction Forms; 3. A Written Proposition from the Buyer; 4. Seller's Acceptance; 5. Closing Statements; 6. The Settlement Statement; and 7. Legal Aspects.

This chapter is based largely on the lecture course entitled "Fundamentals of Real Estate Practice" by L. E. Frailey and Harry Grant Atkinson, prepared for the National Association of Real Estate Boards, and on material in the Prentice-Hall Real Estate Service.

(1006) "CONTRACTS"—Chapter XI (pages 191-205) of REAL ESTATE ANALYSIS by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Includes a consideration of: 1. Implied and Express Contracts; 2. Statute of Frauds; 3. Provisions of Options; 4. Receipts and Binders; 5. Form of Sales Contracts; 6. Construction of Contracts; 7. Rules of Construction; 8. Errors and Omissions; 9. Status of Parties; 10. Consideration; 11. Covenants; 12. Express Covenants of the Vendor; 13. Breach by the Vendor; 14. Express Covenants of the Purchaser; 15. Mistake; 16. Misrepresentation; 17. The Tests of Misrepresentation; 18. Legal Remedies; 19. Equitable Remedies; 20. Assignments; 21. Termination; 22. Contract for Deed; 23. Occasions for Use of Contract for Deed; 24. Express Covenants of the Buyer and Seller; and 25. Recording of Contracts.

## PART X

# MAINTENANCE

(1031) "RAT CONTROL IN EXISTING DWELLING UNITS" by E. J. Herringer; in (H.H.F.A.) *Technical Bulletin No. 13*, issued in March 1950, pages 1-9; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 20¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

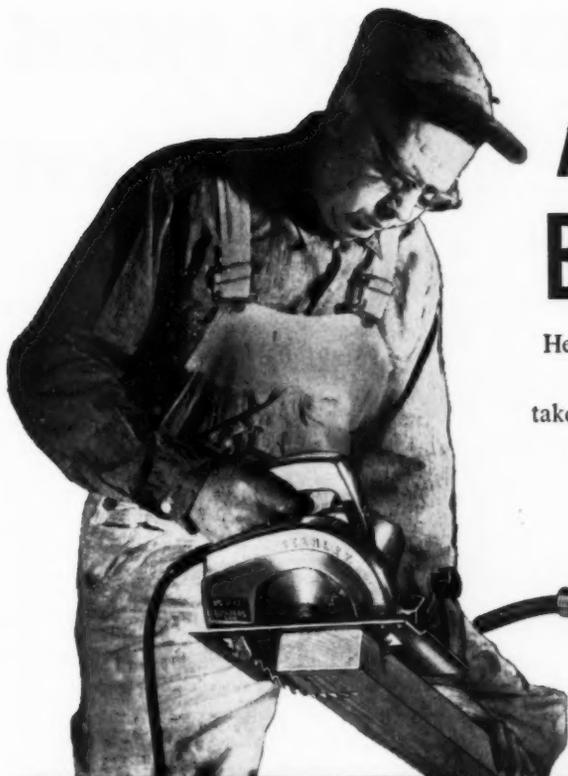
Includes a consideration of: 1. Rat Damage; 2. Habits and Characteristics of the Rat; 3. Organization of the Anti-Rat Campaign; 4. Sanitation in Rat-Control Measures; 5. Ratproofing the Structure; 6. Rat Eradication Within Ratproofed Buildings; 7. Conclusion; and 8. References.

ABSTRACT. This article is concerned chiefly with the so-called common rats which often inhabit homes and neighborhoods and cause untold damage and spread disease. They are known as domestic rats despite the fact that they are wild creatures and often attack man. Article is illustrated by four photographs and several diagrams.

(1041) THE COMPLETE BOOK OF HOME MODERNIZING by Samuel Paul and Robert B. Stone, with illustrations by George Cooper Rudolph; published by H. S. Stuttman

Co., New York 10, N. Y., 1953.—383 pages; price: \$5.95. Order copies from Garden City Books, Garden City, N. Y.

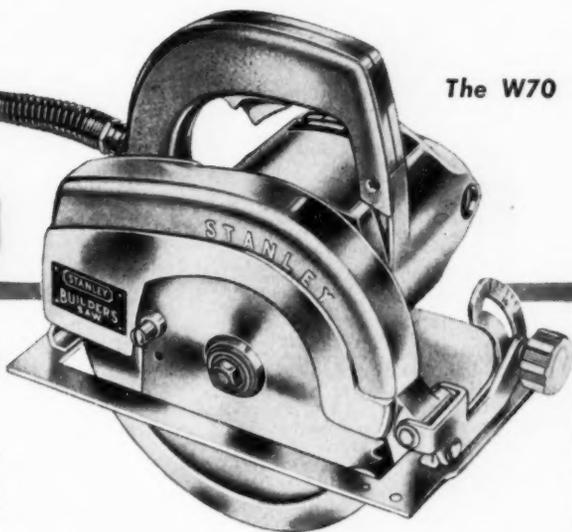
Includes a consideration of: 1. The "Why" and "How" of Modernizing; 2. Modernizing for living and dining; 3. Modernizing the Bedroom; 4. Modernizing Walls, Ceilings and Floors; 5. Modernizing the Kitchen; 6. Modernizing the Bathroom; 7. More House in Cellar and Attic; 8. Planned Storage Space; 9. Light Conditioning; 10. Heating and Air-Conditioning; 11. Modernizing the Outside; 12. Modernizing All Around; 13. Preparing Specifications; 14. Cost Estimating Methods; and 15. Glossary of Building Terms. ABSTRACT. This is a book of how-to-do-it guidance for builders and home owners faced with the problem of modernizing the 43 million American homes which are now at least twenty years old. Methods, plans and specifications are given on such problems as how to add a bathroom, enclose a porch, finish an attic, create more closet space, install proper illumination, build breezeways and play yards, etc. Typical sub-headings include: how to finance modernizing work; placing your television set; fireplaces; how to plan color schemes; modern compact laundry; the powder room; how to damp-proof the basement; adding dormer windows; safe stairways; indirect lighting techniques; rewiring; the thermostat and weather eye; insulated siding; termite control; the carport; garden pools and swimming pools; and barbecues.



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## PART XI

### (a) The Current Housing Scene

- (1051) **AMERICAN HOUSING: PROBLEMS AND PROSPECTS:** The Factual Findings: By Miles L. Colean; The Program: By the Housing Committee; published by The Twentieth Century Fund, New York, N. Y., 1944.—466 pages; price: \$3.00

Includes chapters on: A. THE PRODUCTION OF HOUSING; 1. Land for Housing; 2. The House as an Industrial Product; 3. The Business of Housebuilding; 4. The Management of the Housebuilding Industry; 5. Industrial Trends in Housebuilding; 6. Problems in Industrial Change; B. THE MARKETING OF HOUSING; 7. The Behavior of the Housing Market; 8. The Mechanisms of the Housing Market; 9. Housing Investment and Finance; 10. Government and the Housing Market; 11. Removing the Obstacles; C. THE PROGRAM; 12. Conclusions and Recommendations of the Housing Committee.

The work also includes, as Appendices A through H (pages 345-466), 61 informative tables, a bibliography, and a list of figures.

- (1052) **HOUSING . . . USA!** —Published by The National Association of Home Builders, Washington, D. C. Not dated, but published in September 1952.—36 pages; price: 10¢. Free to members of NAHB.

Includes chapters on: 1. Housing—The Main Issues; 2. The National Housing Supply; 3. The Importance of Mortgage Credit; 4. Housing the Lower Income Group; 5. Slum Clearance and Rehabilitation; 6. The Organization of Government Housing Agencies; 7. The Nature of the Home Building Industry; 8. Housing Cooperatives; 9. Taxes; and 10. Housing in the Defense Emergency.

NOTE: For a greatly expanded version of this work, now in preparation and tentatively scheduled for publication before the summer of 1953, see the next item immediately below.

- (1053) **HOUSING . . . U.S.A.—** Edited by editorial board of all past presidents of the National Association of Home Builders: W. P. "Bill" Atkinson, David D. Bohannon, Milton J. Brock, Alan E. Brockbank, Fritz B. Burns, Edward R. Carr, Thomas P. Coogan, Harry J. Durbin, Robert P. Gerholz, Rodney M. Lockwood, Joseph E. Merriam, Joseph Meyerhoff, George F. Nixon and Emanuel M. Spiegel; published for NAHB by the Simmons-Boardman Publishing Corporation, Emmett Street, Bristol, Conn. (publishers of AMERICAN BUILDER magazine) in January, 1954.—224 pages; price: \$5.00

This work, an expansion of the NAHB booklet bearing the same title (item No. 1052) includes chapters on the following topics: Mortgage Credit—Lifeblood of Home Building; Inventory of America's Housing; A Million Homes Annually; Research Builds Better Homes; Putting Public Relations to Work; The Richest Asset—a Home; Merchandising Materials; What's New in the New Home; They Build Cities; Federal Agencies—

# BOOKS COVERING HOUSING

## in a GENERAL WAY

and Housing; Government's Role in Housing; Cooperative Housing; Housing for the Low Income Family; The Attack Against Blight and Slums; The Real Story Behind Public Housing; Outdated Codes: Barrier to Progress; Housing in a Defense Emergency; Manpower and Housing; Housing—Inflationary?; Hidden Taxes Cost Plenty; Lessons from Europe.

- (1054) **THE REAL ESTATE HANDBOOK**—Edited by Lawrence G. Holmes and Carrie Maude Jones; published by Prentice-Hall, Inc., New York, N. Y., 1948.—784 pages; price: \$10.00

Includes a consideration of: 1. Operating a Real Estate Business; 2. Brokerage; 3. Appraising; 4. Property Management; 5. Land Development and Home Building; 6. Farm Management and Appraising; 7. Financing; 8. Advertising; 9. Brokers' License Laws and Code of Ethics; 10. Titles, Legal Descriptions, and Surveys; 11. Insurance; 12. Ad Valorem Taxation of Real Estate; 13. Trade Associations; 14. Transaction Forms; 15. Charts and Tables; and 16. Bibliography, Educational Directory, Vocabulary. Each of the above sections is divided into several chapters, each dealing in detail with a particular activity or problem. The work contains many illustrations, diagrams, copies of forms, etc.

- (1055) **PRINCIPLES OF URBAN REAL ESTATE** by Arthur M. Weiner and Homer Hoyt (Revised Edition; First Edition, 1939); published by The Ronald Press Company, New York, N. Y., 1948.—512 pages; price: \$5.00

The several Parts and Chapters of this work cover the following points: I. Real Estate Values (Introduction); 1. The Study of Real Estate; 2. Real Estate Value (Legal and Physical Factors); 3. Value Characteristics of Property Rights; 4. Value Characteristics of Land and Buildings (Location Factors); 5. Location and Real Estate Values; 6. The Future Growth and Structure of Cities; 7. The Dynamics of Neighborhoods and Districts (Market and Cycle Forces); 8. The Real Estate Market; 9. Real Estate Market Analysis (Regulations); 10. Regulations and Real Estate Values (Review); 11. Valuation Problems as a Review of Basic Principles; II. REAL ESTATE ADMINISTRATION: (Introduction); 12. The Functions and Organization of the Real Estate Business (Development); 13. Subdividing; 14. Building (Financing); 15. Financing Instruments and Processes; 16. Funds and Risks (Marketing); 17. Brokerage; 18. Property Management; 19. Advertising and Public Relations (Summary; Current Problems and Possible Solutions); 20. Toward Improved Real Estate Administration; and Appendices.

- (1056) **URBAN LAND ECONOMICS** by Richard U. Ratcliff; published by McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.—533 pages; price: \$6.50

Includes a consideration of: 1. The Institutional Aspects of Real Property; 2. The Economics of Urbanization; 3. The City as a Social Complex; 4. Demand for Housing; 5. Demand for Nonresidential Space; 6. The Construction Industry; 7. The Building Process; 8. Urban Land Credit; 9. The Home Mortgage Market; 10. Urban Land Market Functions and Organization; 11. The Housing Market; 12. Land Income and Value; 13. City Growth and Structure; 14. Urban Land Policies; 15. The Economics of Housing Policy; and 16. The Economics of Housing Policy (Continued).

- (1057) **REAL ESTATE ANALYSIS** by William H. Husband and Frank Ray Anderson; published by Richard D. Irwin, Inc., Chicago, Illinois, 1948.—576 pages; price: \$6.00

Contains Parts and Chapters on: PART I. REAL ESTATE AND THE ECONOMY; 1. Property Rights and the Social Order; 2. Real Estate and the National Economy; 3. Real Estate and the City; 4. Land and its Development; 5. Building and its Problems; PART II. LEGAL PROCESSES AND INSTRUMENTS; 6. Property Interests and Titles; 7. Title by Descent and Will; 8. Deeds; 9. Mortgages; 10. Other Liens; 11. Contracts; 12. Leases; PART III. THE REAL ESTATE MARKET; 13. The Nature of the Real Estate Market; 14. Price Fluctuations and Real Estate Cycles; 15. Value of Real Estate; 16. Real Estate Appraisals; 17. The Sale of Real Estate; 18. Rental and Management; PART IV. THE FINANCING OF REAL ESTATE; 19. Real Estate Financing and Risks; 20. Loans and Terms; 21. Sources of Funds—Primary Markets; 22. Sources of Funds—Secondary Markets; 23. Loan Servicing, Default, and Foreclosure; 24. Taxes and Assessments; 25. Eminent Domain and Condemnation; 26. Planning and Zoning; 27. Public Housing; 28. Veterans' Housing; 29. Public Policy and Private Interest.

- (1058) **HOW BIG IS THE HOUSING JOB?** by E. Everett Ashley, 3d.; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., October 1951.—17 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. What is an estimate of housing needs?; 2. Why do we make estimates of housing needs?; 3. Are housing needs estimates used by local communities?; 4. Who makes estimates of housing needs?; 5. Do the estimates of need all agree as to the size of the problem?; 6. How do you make an estimate of housing needs?; 7. How do housing needs differ from housing demand?; 8. Where do the figures for housing needs estimate come from?; 9. When and where has the Census published figures on the housing supply?; 10. Why are sample surveys used?; 11. What is a sample survey?; 12. What limitations are there to housing sample surveys?; 13. What is the effective housing supply?; 14. How many houses will we need in 1960?; 15. What will adding 6,000,000 houses to our supply do?; 16. What are substandard dwellings?; 17. What must be done about the substandard houses?; 18. What other factors affect housing needs?; 19. What about the effects of age upon our good housing?; 20. How much does this replacement or rehabilitation job amount to?; 21. How big is the whole job?; 22. Why is the need for 1950-60 nearly as great as it was previously estimated to be for 1949-1960?; 23. What about the farm housing problem?; 24. Hasn't the housing need been largely met by the improvement in housing conditions since the end of World War II?; 25. Do all the houses called for in a needs estimate have to be built new?; 26. Do these estimates take into account housing needs of defense workers?; 27. Can we still aim at a target of 14½ million non-farm units in the next decade in view of the international situation?; 28. What is the present target for home builders?; 29. Does this mean that the peace-time objective "a decent home and a suitable living environment for every American family" has been abandoned?



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**VALUE** — for your customers  
when you build  
a better home with

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THE HOT PRESSED DOUGLAS FIR HARDBOARD OF A MILLION USES . . .

**B**uild Allwood Hardboard into your next job. Be convinced of the economy, convenience and versatility of this superior building material. Cut costs on walls, ceilings, underlayment, soffits, siding and outbuilding construction.

Allwood Hardboard is the ideal facing material for concrete forms, too. Use it over and over again for big savings! Check with your dealer TODAY. If he does not stock Allwood Hardboard, send us his name. Our jobber will call on him.

**Hard, Smooth, Durable —**

Allwood resists abrasion and moisture, won't delaminate. Maintains dimensional stability.

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Grainless — equally strong in both lateral dimensions. Nail it — saw it — work with ordinary woodworking tools. It works like wood because it is wood.

**Finishes Easily —**

Hard, smooth surface speeds brushwork, makes finish look better. Won't chip or peel off.

Speed the job with  
John Day Packaged Trim  
for doors and windows. Grade A Ponderosa  
Pine delivered factory-fresh. See your dealer, or  
write for complete information.



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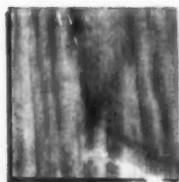
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**ABSTRACT.** A booklet which explains the sources and methods utilized in the Housing and Home Finance Agency's computations of the size and scope of the job which confronts this country during the next decade, if it is to achieve the national housing goal. It brings up to date in non-technical language much of the material included in a pamphlet of this same title published before the Korean hostilities and the new national emergency. The final sections of this revised publication cover the adjustment of current housing goals to mesh with the needs of defense mobilization. The emergency, affecting our immediate capacity to meet the Nation's long-range housing needs, does not, of course, reduce the needs themselves. This means that either the Nation's productive capacity must be increased, as it affects housing, or the rate of progress in meeting United States housing needs must be reduced. This booklet concentrates on defining the needs, revising the previous publication with new data from the 1950 Census of Housing, and adds new text to answer the continuing flow of inquiries on the subject. There are several tables showing the quantity of non-farm dwelling units, and their condition, currently in use, and the remaining gap which must be filled to assure an adequate housing supply.

(1059) **THE HOUSING SITUATION—1950**—Prepared by Arthur C. Germand under the direction of E. Everett Ashley, 3d.; published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., February 1951.—30 pages; price: Not stated. Order copies from Housing and Home Finance Agency, Washington, D. C.

Includes a consideration of: 1. Summary; 2. The Housing Census of 1950; 3. Size of Inventory; 4. Condition and Plumbing Facilities; 5. Vacancy Rate; 6. Overcrowding; 7. Size of Household; 8. Home Ownership; 9. Rent; 10. Value; 11. Type of Structure; 12. Appendix: Sample Tabulation of the Housing Census, April 1950 (with 15 tables); and 13. Definition of Terms.

**ABSTRACT.** This is an analysis of the preliminary results for non-farm areas of the 1950 Housing Census. The analysis consists largely of comparisons between urban and rural non-farm areas, between non-whites and all races, and of changes that have occurred in the size and quality of the housing supply since 1940.

(1060) **THE 1950 HOUSING SITUATION IN CHARTS** by Arthur C. Germand and staff; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., June 1952.—35 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Foreword; 2. Housing Inventory at Mid-century; 3. Long-Term Trend—Farm and Non-Farm Homes; 4. How Good is our Non-farm Housing Supply? 5. The Improvement in our Housing During the Last Decade; 6. What Remains to be Done?; 7. Homes Still Lacking Private Toilet or Bath; 8. Few Effective Vacancies in 1950; 9. Declining Trend in Size of Household; 10. Smaller Households Show Greatest Gains; 11. Little Change in Average Size of Homes; 12. Crowding Decreases, But Only Relatively; 13. Where is Overcrowding Most Severe?; 14. Home Owners Exceed Renters for First Time; 15. Changes in Home Ownership, 1940-1950; 16. Rents More Than Half Again as High as in 1940; 17. Home Values at Peak Levels in 1950; 18. No Change in the Ratio of Homes Mortgaged; and 19. Appendix.

**ABSTRACT.** This is a revised edition of the publication released in October 1951, containing four new pages of text together with two new charts. The Housing Census of 1950 was accomplished by the Bureau of the Census, U. S. Department of Commerce. Preliminary results have been released by the Bureau and an analysis of these results has been published by the Housing and Home Finance Agency in a booklet entitled, *The Housing Situation, 1950*, included as item (1059) of the present reading list. The present booklet has been prepared with the accent on graphic presentation. Pri-

marily it is designed for those interested in the national housing situation but who are not seeking detailed technical information. It was prepared within HBEA's Division of Housing Research under the supervision of Mr. E. Everett Ashley, 3rd, Chief, Housing Economics Branch.

**(b) Housing  
Special-Interest  
Groups**

**(1091) HOUSING COOPERATIVES IN THE UNITED STATES, 1949 AND 1950**—Prepared by the Bureau of Labor Statistics, U. S. Department of Labor, with the financial assistance of the Division of Housing Research, Housing and Home Finance Agency. (For the names of the contributing authors see below, under "Abstract."); published simultaneously by the Housing and Home Finance Agency, Division of Housing Research, as its "Housing Research Paper No. 24," and by the U. S. Department of Labor, Bureau of Labor Statistics, as its "Bulletin No. 1093; Washington, D. C., 1951, but published in March 1953.—133 pages; price: 65¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction and Summary; (a) Definition of terms; (b) Scope of study; (c) Summary of findings; (d) Conclusions; 2. Characteristics of Housing Associations; (a) Geographic distribution; (b) Membership and income; (c) Age of associations; (d) Law of incorporation; (e) Sponsorship of associations; (f) Stages at which cooperation was used; (g) Membership; (i) Membership requirements; (ii) Voting; (iii) Membership make-up; (iv) Sources of new members; (v) Family data; 3. The Projects; (a) Land purchase and characteristics; (b) Project planning; (c) Membership participation in planning; (d) Size of project; (e) Size of dwellings; (f) Contracting by association; 4. Cost and Finances; (a) Cost to association; (i) Cost of land and its development; (ii) Cost of project, by item of expense; (iii) Total investment in project; (iv) Contract provisions; (v) Self-help by members; (vi) Other sources of savings; (b) Financing of projects; (i) sources of funds; (ii) Mortgage indebtedness; (iii) Mortgage insurance; (iv) Financial status; (c) Cost to member; (i) Entrance charges; (ii) Price of unit; (iii) Member's down payment; (iv) Carrying cost to member; (v) Additional assessments; (vi) Method and period of amortization; (d) What the member gets for his money; (i) Land space; (ii) Construction characteristics; (iii) Cost of unit in relation to size; (iv) Maintenance and repairs; (v) Evidence of ownership and period of lease; 5. Internal Arrangements; (a) Exchange of equity; (b) Withdrawal procedures; (c) Protective measures; (d) Community aspects; 6. Relations with Surrounding Community; 7. Cooperatives and the Federal Government; (a) Cooperatives under National Housing Act; (b) Mutuals and public housing projects; (i) Sales procedures; (ii) Types of war housing purchasers; (iii) Disposal policies for war housing; (iv) Disposal of "greentown" projects; 8. Problems of Cooperatives; (a) By-law and legal problems; (b) Acquisition of land; (c) Building codes and zoning regulations; (d) Installation of utilities; (e) Relations with architects and contractors; (f) Relations with labor; (g) Self-help as a disadvantage; (h) Problems of finance; (i) Experience with lenders; (ii) Experience with insurers; (i) Problems of time lag; (j) Problems of rising costs; (k) Membership problems; (l) Operating problems; (m) Special problems of mutuals; (n) Other problems; (o) Reasons for failure; 9. Appendix A. Housing Associations Covered in Study; 10. Appen-

dix B. Documents and Forms used by Housing Cooperatives; (a) All-the-way cooperatives; (i) By-laws; (ii) Lease agreements; (b) Co-ventures; (i) Articles of incorporation; (ii) By-laws; (iii) Membership agreement; (iv) Membership application and purchase agreement; (v) Realty sale and building contract; (vi) Option agreement; (c) Mutuals; (i) Articles of association; (ii) By-laws; (iii) Mutual ownership contract; (iv) Financial questionnaire; (v) Bylaws of community council; 11. Appendix C. Information for New Groups; (a) Suggestions for starting a housing cooperative; (b) Regulations and procedures under Section 213 of National Housing Act of 1950; 12. Appendix D. Experiences of a Mutual. NOTE: The work also includes the following Tables: 1. Active cooperative housing associations and dissolved associations reported, by type and location, July 31, 1950; 2. Number, Membership, and Business of Cooperative Housing Associations, by Status and Type; 3. Period in which Housing Associations were Established; 4. Laws under which Housing Associations Incorporated; 5. Extent of Cooperation in Housing Associations; 6. Income and size, in 1949, of Family Members of Housing Associations; 7. Age of Head of Families in Housing Associations; 8. Total Acreage Held by Housing Associations; and Amount Allocated for Community Purposes; 9. Active Housing Associations Holding Classified Acreage; 10. Dwelling Units and Rooms Planned and Completed by Housing Associations; 11. Number of Dwelling Units Completed or Under Construction, by Size of Project and Type of Dwelling; 12. Size of Dwelling Units Completed or Under Construction by Housing Associations; 13. Cost of Land, Before and After Development, Held by Housing Associations; 14. Number of Housing Associations with Specified Land Cost per Acre Before and After Development; 15. Cost of Housing Projects, by Item; 16. Number of Housing Projects with Specified Total Cost; 17. Total and Average Cost of Housing Projects; 18. Sources of Funds for Housing; 19. Mortgage Indebtedness of Active Housing Associations; 20. Interest Rate, and Year and Period of Mortgage in Housing Associations; 21. Amounts of Original Mortgage Indebtedness Financed at Specified Interest Rates; 22. Assets and Net Worth of Housing Associations; 23. Cost of Joining Housing Associations, by Amount Required; 24. Average Down Payment Required, by Amount and Percent of Total Cost of Unit; 25. Monthly Cost of Dwelling Unit per Member, in All-the-Way Cooperatives, by Cost Item and Year; 26. Monthly Rentals in Mutual Associations, by Size of Dwelling Unit; 27. Number of Associations Building Houses, by Size of Lot; 28. Number of Housing Projects with Specified Density of Dwelling Units; 29. Construction Characteristics of Dwellings in Housing Projects; 30. Price per Unit, and Amount and Cost of Living Space, in Dwellings of Housing Associations; 31. Number of Housing Projects, by Type of Community Facilities Provided; 32. Number of Permanent Family-Type Dwelling Units Sold by P.H.A., by Type of Purchaser and Program Under Which Built, End of 1950; 33. Standard Financial Terms for Sale of Permanent War Housing to Mutuals; 34. Interval Between Formation of Association and Completion of First Unit, and Time Between First and Last Units; and 35. Membership Fluctuations in Housing Associations.

**ABSTRACT.** This work presents the results of a survey of operations of cooperative housing associations, with emphasis on the causes of successes and failures. The study draws together statistical materials gathered from 165 associations, some still in operation and some now dissolved. The severe housing shortage in the United States after World War II led to increased interest in cooperative housing as one means of solving this problem. The aim of the study was to present materials that might help future consumer groups, in forming cooperative housing associations, "to avoid the pitfalls which have beset some of their predecessors." The study presents information on the experience of 133 associations that were active in 1950 and on 32 associations that had been dissolved. Field studies were made of 68 of the active and 50 of the dissolved associations. Main emphasis in the study is on associations actively building dwellings within the past decade. The survey was directed by Florence E. Parker, the Specialist on Cooperatives in the Bureau of Labor Statistics. She also participated in the field work, assisted by Charles J.

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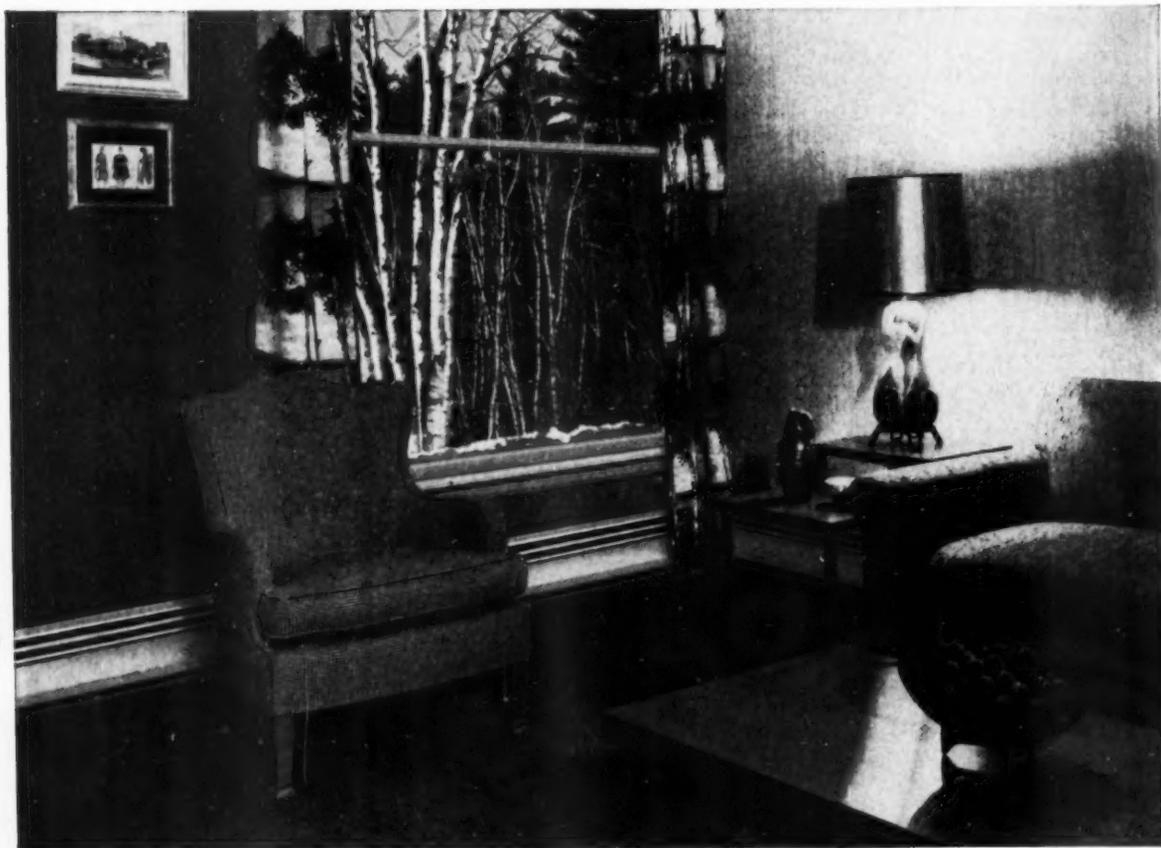
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Appleby, Donald J. Dowd, Joseph C. Furey, Robert P. Lane, Herbert H. Moede, and James E. Zenith—all on the Prices Staff of the Bureau of Labor Statistics. The section on the legal and administrative status of cooperatives under the National Housing Act was prepared by C. Franklin Daniels, Deputy Assistant Commissioner, Cooperative Housing Division, Federal Housing Administration. The corresponding section on mutual housing corporations and the Public Housing Administration was prepared by Donald Landay of that agency. The study was financed, in part, by the Division of Housing Research, Housing and Home Finance Agency.

- (1101) HOUSING OF THE NON-WHITE POPULATION, 1940 TO 1950 by Charles L. Franklin; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., July 1952.—42 pages; price: 25¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Summary; 2. Summary in Charts; 3. Population changes; (a) Growth and movement; (b) Comparative changes in population and households; (c) Geographic shifts in households; 4. Housing Supply; (a) Doubling; (b) Overcrowding; (c) Income; (d) Condition and facilities of housing; (e) Tenure; (f) Mortgage status of owned homes; (g) Value of owned homes; (h) Contract monthly rents; 5. Conclusions; 6. Appendix A: Definitions and Explanatory Notes; 7. Appendix B: Statistical Tables.

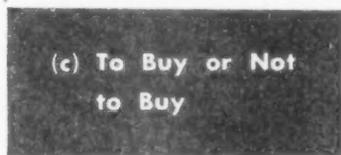
ABSTRACT. A booklet reporting the progress made in housing of the non-white population, 1940-1950. It brings up-to-date the data reported in previous publications released in January and June 1948, respectively. It considers the impacts of war, mass migration of workers and family dislocations, rapid urbanization and other factors of major economic resurgence during the decade. Preliminary tabulations of the data collected by the 1950 Census of Population and Housing have been studied closely and compared with similar data collected by the 1940 Censuses of Population and Housing. Although additional data are available for both 1940 and 1950, with reference to population and labor force particularly, only those data were selected for analysis in this report which had special bearing on housing and which were tabulated by racial classifications. The present report represents a revision and expansion of an earlier report having the same title but covering only the first 7 years, 1940-7,

of the last decade. The present report was prepared in the Housing Economics Branch of HHFA's Division of Housing Research, with the collaboration of the Racial Relations Service of that agency. The final editing of the report was done by B. T. McGraw of the Racial Relations Service.

- (1121) "HOW OUR AGED FAMILIES ARE HOUSED"—Based on material prepared by Leonard S. Silk; in *Housing Research*, Winter 1951-1952, pages 19-22; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. HHFA Sponsors Special Tabulation; 3. What the Tabulation Revealed; (a) Condition of housing of the aged; (b) Number of persons per dwelling; (c) Number of rooms per dwelling; (d) Overcrowding; (e) Home ownership; (f) Value of houses owned; and (g) Rent of dwellings.

ABSTRACT. What is the housing situation of old people in the United States? Throughout the nation, in what kinds of dwellings do our aged families live? How do their incomes and housing conditions compare with the rest of the population? Answers to these questions are basic in determining future programs of housing for the aged. To get the facts, HHFA sponsored a special study of results from the 1950 Census of Housing. This article presents highlights of this study, digested for presentation to the Second International Gerontological Congress in St. Louis, Mo., in September 1951.



- (1151) HOME OWNERSHIP; IS IT SOUND? by John P. Dean; published by Harper & Brothers, Publishers, New York and London, 1945.—216 pages; price: \$2.50

Contains chapters on: 1. America's Decision: Home Ownership; 2. "Own Your Own Home": Folk Wisdom or Folklore?; 3. The Business of Home Ownership: High Stakes in Promotion; 4. The Role of Government: Bland Advocate of the Ideal; 5. In the Market for Homes: Freedom to Buy; 6. The Home Owner: A Risk Uncalculated; 7. The Real Estate Cycle: Hindsight is Easy; 8. The Financial Dilemma: To Own or to Rent?; 9. The House: A Product for Sale or Service?; 10. The Neighborhood: Space Patterns Through Time; 11. Home Ownership: The Problem Restated; Appendix A: Suggestions for Further Research; Appendix B: Supporting Footnotes and Bibliography; and Appendix C: Tables.

- (1152) WHEN YOU BUY OR BUILD A HOME. HOW TO AVOID PITFALLS AND INVEST PROFITABLY by Arthur M. Weimer and John J. Rowland; published by The Ronald Press Company, New York, N. Y., 1937.—150 pages.

Contains chapters on: 1. Where to Buy; 2. What to Buy—Property Value and Architectural Features; 3. What to Buy—General Plan of the Property; 4. What to Buy—Structural Factors; 5. When to Buy—The Real Estate Market and Cycle; 6. How to Buy—The Mechanics of Real Estate Purchases; 7. How to Buy—Financing Home Ownership; 8. How to Buy—Special Problems of House Building.

- (1153) WHEN YOU BUY A HOME LOOK AT THE LOT AND NEIGHBORHOOD—Prepared and published by the Housing and Home Finance Agency, Washington, D. C., November 1950.—14 pages; price: 5¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. One-unit House and Lot; 2. Inside the Lot Line; 3. What Makes a Lot Usable?; 4. Beyond the Lot Line; 5. Convenience and Accessibility; 6. Protection and Limitations; 7. The Purchase Transaction; 8. The Cost Side; 9. Your Decision; and 10. Checklist.

ABSTRACT. A booklet prepared in response to widespread interest and need of prospective home owners for a simple nontechnical guide to assist in selecting a site for a home, or in choosing a property presently built upon. The pamphlet discusses basic features to be considered and provides a simple checklist for their evaluation.

## PART XII

### (a) Research Methods and Equipment

- (1181) RESEARCH ON BUILDING MATERIALS AND STRUCTURES FOR USE IN LOW-COST HOUSING by Hugh L. Dryden; Building Materials and Structures Report BMS 1; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued June 16, 1938.—5 pages; Out of print. See your librarian.

Includes a consideration of: 1. Introduction; 2. Objectives; 3. Procedure; 4. Scope; 5. Cooperation with Industry; 6. Detailed

Programs; and 7. No "Approvals." For many years the National Bureau of Standards has developed test methods, made tests, and conducted research on building materials, such as cement, lime, brick, tile, and steel and has cooperated with various agencies in the formulation of specifications for such materials. The results of this work have been published in the *Journal of Research*, or in the trade journals, or are embodied in specifications of the Federal Government and of cooperating technical societies and industries. A new approach has now been made to the problem of applying technical research in the building industry. This first report in a new series of publications is intended to explain that approach. Invaluable advice and assistance by the Central Housing Committee and its various affiliated groups and cooperating individuals is acknowledged.

- (1182) METHODS OF DETERMINING THE STRUCTURAL PROPERTIES OF LOW-COST HOUSE CONSTRUCTIONS by Herbert L. Whittenmore and Ambrose H. Stang; Building Materials and Structures Report BMS 2; published by U. S.

Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued August 10, 1938.—18 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Cooperation with Industry; (a) Approval; 3. Cooperation with the United States Forest Service; 4. Definitions; (a) House; (b) Element; (c) Construction; (i) Wood construction; (d) Sponsor; 5. Specimens; (a) General; (i) Size; (ii) Length or height; (iii) Width; (b) Age; (c) Sponsor's obligations; (i) Description; (ii) Caution; (iii) Specimens; 6. Method of Testing Walls; (a) Compressive load; (i) Specimen; (ii) Loading; (ii) Apparatus; (iv) Results; (b) Transverse load; (i) Specimen; (ii) Loading; (iii) Apparatus; (iv) Results; (v) Masonry constructions; (c) Concentrated load (with similar sub-headings); (d) Impact load (with similar sub-headings); (e) Racking load (with similar sub-headings); 7. Method of Testing Partitions, Non-Load-Bearing (with the following sub-headings, each of which is broken down as shown above); (a) Impact load; (b) Concentrated load; 8.

Method of Testing Floors; (a) Transverse load; (b) Concentrated load; (c) Impact load; 9. Method of Testing Floors; (a) Transverse load; (b) Concentrated load; 10. Presentation of Results.

**ABSTRACT.** This paper describes methods used by the National Bureau of Standards to determine the structural properties of elements of a low-cost house; that is, structural properties of wall specimens under compressive, transverse, concentrated, impact, and racking loads; of partition specimens under impact and concentrated loads; of floor specimens under transverse, concentrated, and impact loads; and of roof specimens under transverse and concentrated loads. A graphic method of presenting the results is also described. It is believed that the tests of house constructions by the methods described in this paper will give information on the structural properties which will greatly assist in the selection of a low-cost construction for given conditions. The tests described are intended to measure strength, stiffness, and resistance to abuse of constructions intended for use in low-cost houses and apartment buildings. These tests represent an attempt to develop a standard procedure for evaluating the structural properties of house constructions.

(1183) **METHODS OF INVESTIGATION OF SURFACE TREATMENT FOR CORROSION PROTECTION OF STEEL** by Rolla E. Pollard and Wilbur C. Porter; Building Materials and Structures Report BMS 8; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued October 11, 1938.—10 pages; price: 10¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Factors Affecting Durability of Paint on Metal; 3. Methods of Testing; 4. Testing Program; (a) Pretreatments for galvanized steel; (b) Surface conditions for plain sheet steel; (c) Protective coatings; (d) Status of Investigation. **ABSTRACT.** Some of the factors affecting the protective value of paints for steel and galvanized surfaces are being studied by accelerated laboratory corrosion tests supplemented by outdoor exposure tests. Short descriptions are given of the various methods of testing. The significance and the limitations of such tests as compared with actual service tests are briefly discussed and the materials, pretreatment processes, and paints included in the testing program are outlined. Special attention is being given to the severity of corrosion which may result from condensed moisture, such as might occur in the enclosed areas between walls.

(1184) **METHODS AND EQUIPMENT FOR TESTING PRINTED-ENAMEL FELT-BASE FLOOR COVERING** by George G. Richey, Elizabeth H. McKenna, and Robert B. Hobbs; Building Materials and Structures Report BMS 130; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued May 1, 1952.—10 pages; price: 15¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Introduction; 2. Materials Tested; 3. Test Methods and Equipment; 4. Service Tests; and 5. Results of Tests. **ABSTRACT.** This paper describes methods and equipment for measuring the weight, over-all thickness, thickness of enamel and of seal coat, resistance to scrubbing with cleaning compound, resistance to kerosene, flexibility, and tearing strength of printed-enamel felt-base floor coverings. Results of laboratory tests are correlated with results of service tests of 11 proprietary products. The correlation was significant for all properties studied except thickness of seal coat, but no single property was outstanding in its level of significance. Printed-enamel felt-base floor coverings (known to the trade as "felt-base rugs") form the largest class of resilient non-textile floor coverings.

## (b) General Descriptions of Research Projects

(1201) **HOUSING RESEARCH SURVEY**—Prepared by the Housing Research Conference, William H. Scheick, Chairman, University of Illinois, Urbana, Illinois; distributed by The Producers Council, Inc., Washington, D. C., about May 1948.—89 pages, mimeographed, hard paper covers; price: not stated. Copies presumably should be ordered from The Producers Council, Inc., 815 Fifteenth Street, N. W., Washington 5, D. C.

Includes a consideration of: 1. Preface, and Names of Committee Members; 2. Index of Replies to Questionnaire on Housing Research Survey; 3. Housing Research Master Outline (Grouping of Respondents by Fields of Investigation); and 4. Individual School Outlines (Alphabetical Listings of Responding Institutions, with description of Research Prosecuted at Each Institution); (a) Colleges and Universities; (b) Other research institutions.

**ABSTRACT.** This survey is a preliminary effort to gather information on housing research (under way or being planned) by educational institutions and by specially endowed non-commercial, non-governmental research agencies. The survey was made with the intention of transmitting the information to the Building Research Advisory Board of the National Research Council as a voluntary aid to the Board in its work of surveying and coordinating such research activities. This survey was conducted and prepared by representatives of ten institutions and agencies, acting as an unofficial Housing Research Conference, meeting at Columbus, Ohio, in the winter of 1947-48, for the purpose of advancing the cause of housing research. These organizations, and their representatives at the Conference, were: The University of Michigan (Mr. Wells Bennett and Mr. G. B. Brigham); Ohio State University (Mr. J. S. Owens, Mr. G. F. Oman, and Mr. J. P. Shank); Pennsylvania State College (Mr. E. R. Querer, and Mr. K. J. Heidrich); Purdue University (Mr. Carl F. Boester); John B. Pierce Foundation (G. M. Rapp); University of Illinois (Mr. W. H. Scheick); American Institute of Architects (Mr. Walter Taylor); Building Research Advisory Board (Mr. C. W. Smith); Housing and Home Finance Agency (Mr. Leonard G. Haeger); and Producers Council (Mr. D. T. Colton and Mr. Harry C. Plummer).

(1202) **"APPLICATION OF RESEARCH IN THE BUILDING INDUSTRY"** by Joseph H. Orendorff; in *Proceedings of the Conference on Building Research*, United Nations Economic Commission for Europe, Industry and Materials Committee, (Housing Sub-Committee, Geneva (Switzerland), December 1950; mimeographed, 285 pages. Mr. Orendorff's paper is on pages 239-275; price: not stated. Copies should be ordered from the United Nations Economic Commission for Europe, Industry and Materials Committee, Housing Sub-Committee, c/o United Nations, New York City. In ordering, cite the full title of the document, and then add the following: "Publication E/ECE/122; E/ECE/IM/HOU/BR/2; English version."

Includes a consideration of: 1. Research a Symptom of Industrial Change; (a) Research comes of age; (i) Benefits to more concentrated industries; (ii) Companies supporting research; (iii) Bigness not a factor; (iv) Age of industry

a factor; (v) Industrial research a recent development; (A) Larger companies, first to benefit; (B) Research and small companies; (vi) Choice of methods; (b) The development of research facilities; (i) Government in research; (ii) Technical societies; (iii) Large company facilities; (A) Technical service staff; (B) Central research department; (iv) Colleges and universities; (v) Trade associations; (c) The pattern of industrial research; (d) Integration of functional activities; (i) Integration by management; (ii) Setting of objectives; (iii) Assignments to specialists; (e) Vertical integration—horizontal competition; 2. Change in the Building Industry; (a) In the beginning; (i) Shelter is a constant; (ii) Large companies in the housing industry; (iii) Education for research; (b) More facilities; (i) Government and housing research; (ii) Building Research Advisory Board; (iii) Trade Associations; (A) National Association of Home Builders; (B) Prefabricated Home Manufacturers Institute; (C) Structural Clay Products Institute; (D) Lumber Dealers Research Council; (c) Patterns for housing research; (d) Integrated research in housing; (e) Vertical integration—horizontal cooperation.

(1203) **HOUSING RESEARCH: CAPSULE DESCRIPTIONS OF PROJECTS STARTED UNDER CONTRACT IN 1950**—Published by Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., May 1951.—66 pages; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Urban Studies (4 projects); 2. Housing Economics; (a) Housing Market analysis (4 projects); (b) Housing supply analysis (2 projects); (c) Housing production and cost analysis (5 projects); (d) Miscellaneous (2 projects); 3. Housing Finance (5 projects); 4. Housing Technology; (a) Dwelling space and room arrangement (2 projects); (b) Structural components of houses (13 projects); (c) Materials of house structure (10 projects); (d) Housing sanitation (4 projects); (e) Heating and air conditioning (4 projects); (f) Miscellaneous (2 projects); and 5. General (1 project).

**ABSTRACT.** This book describes briefly the 58 research contracts negotiated by HHFA's Division of Housing Research under Title IV of the Housing Act of 1949 with universities, government laboratories, and other nonprofit research organizations to help achieve national housing objectives through a comprehensive research program spanning housing technology, the social sciences, and related fields. The projects are focused on solving practical problems of those engaged in various phases of housing production, financing, and operation, for the mutual benefit of the housing industry and housing consumers. Foreword by Richard U. Ratcliff, Director of Housing Research.

**NOTE:** Most of the projects described have since been completed, and the published reports of many of them are listed in the present reading list.

(1204) **RESEARCH FOR INTERCENSAL HOUSING SURVEYS: AN HHFA RESEARCH PROGRESS REPORT—AUGUST 1951**—Published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C., August 1951. 12 pages; price: not stated. Order copies from Housing and Home Finance Agency, Washington 25, D. C.

Includes a consideration of: 1. Need for Better Statistics; 2. Cost and Reliability; 3. Plan of Operation; 4. Research in Progress; 5. Sample Design; 6. Research in Concepts and Definitions; 7. Research in Subject-Matter Content.

**ABSTRACT.** An exposition of research sponsored by the Housing and Home Finance Agency and conducted by the Bureau of the Census on the problems involved in making Intercensal Housing Surveys. The study touches upon several problems that must be solved before any survey can be undertaken, and outlines the research in progress or still planned, including research on cost factors, reliability of data, etc. This report was prepared for HHFA, under the general

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direction of Howard G. Brunsman, Director of the Population Division of the Bureau of the Census, by Wayne S. Daugherty and J. Hugh Rose.

- (1205) "NOTES ON NEW HIFA HOUSING RESEARCH CONTRACTS"—Author not named; in *Housing Research*, Fall 1951, pages 41-45; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Financing Conversions of One-Family Residences to Multifamily Use; 2. Demonstration of New Techniques for Building Low-Cost Houses; 3. Self-Help Housing Construction in Alaska; 4. Techniques for Saving Materials and Labor in Frame Houses; 5. Guides for Urbanization in Metropolitan Areas Affected by Industrial Expansion; 6. Guides for Urbanization in Rural Areas Affected by Industrial Expansion; and 7. A Guide for Delineating Plant and Housing Supply in Defense Labor Areas.

**ABSTRACT.** This article presents brief notes about HIFA research projects started under contract with fiscal 1951 funds, and focused on housing problems related to the then-current emergency. These "capsule descriptions" cover none of the research projects financed with special funds made available under the Defense Production Act of 1950 and concerned primarily with measuring the impact of real estate credit restrictions on the housing industry, nor do they cover the Agency's extensive staff research activities. The projects covered here are among the approximately 40 started under contract in 1951. All were designed to produce results useful in the defense program. Contract 1, above, identifies problems and local practices at Pittsburgh, Pa., and Rochester, N. Y.; Contract 2 is with the Small Homes Council, University of Illinois; Contract 3 is with the University of Minnesota; Contract 4 is with the Small Homes Council, University of Illinois; Contract 5, which relates to the Morrisville area of lower Bucks County, Pa., is with the University of Pennsylvania; Contract 6, which relates to the Savannah River Area of South Carolina and Georgia (Aiken, S. C., and Augusta, Ga.) is with the University of North Carolina; and Contract 7 is with Cornell University.

- (1206) "RESULTS OF A SURVEY OF HOUSING RESEARCH" by Winfield Best and Eugene A. Tilleux; in *Housing Research*, Winter 1951-1952, pages 23-27; published by the Housing and Home Finance Agency, Division of Housing Research, Washington, D. C.; price: 30¢. Order copies from Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Includes a consideration of: 1. Survey Scope and Method; 2. Response and Coverage; 3. Number and Kind of Projects; 4. Major Universities in Housing Research; 5. Concentrations in Certain Fields; 6. Research Expenditures and Sponsorship; 7. Advance Indications of Survey Value; 8. Sample Facts on Selected Projects; (a) Technological research; (i) Building materials; (ii) Structures; (iii) Mechanical equipment; (iv) Other technological; (b) Social science and other nontechnical research; (i) Urban studies; (ii) General economic and social data; (iii) Physiology and Social psychology; and (iv) Other social science and nontechnological.

**ABSTRACT.** As one of its first major projects the HIFA Division of Housing Research in 1950 engaged the National Academy of Sciences to conduct a survey of housing research in nonprofit institutions and commercial laboratories throughout the United States. The survey was undertaken by the Academy's Building Research Advisory Board. Development and selected findings of the survey are summarized here from the final project report which was reviewed by the BRAB Executive Committee and a special panel of Social Science Research Council members. For a description of the full report, see item (1207) of this reading list.

- (1207) A SURVEY OF HOUSING RESEARCH IN THE UNITED STATES—Conducted by The Building Research Advisory Board, National Research Council, National Academy of Sciences, Washington, D. C., under contract with the Housing and Home Finance Agency; published by the Housing and Home Finance Agency, Washington, D. C., November 1952.—723 pages; price: \$3.00, paper bound.

The work includes: 1. Foreword (by Joseph H. Orendorff); 2. The Building Research Advisory Board, Advisory Committee for Housing Research Survey; 3. Preface; 4. Summary; 5. PART I—DEFINITION OF HOUSING RESEARCH; 6. Definitive List; 7. PART II—SUBJECTIVE CLASSIFICATION OF REPORTED RESEARCH; 8. Introduction to Reported Research Classified by Subjects; 9. Index of Reported Research; 10. Project Listings by Subject; 11. PART III—ORGANIZATIONS AND THEIR WORK; 12. Introduction to Summarized Reports of Research Organizations; 13. Index to Organizations Reporting Housing Research; 14. Educational Institutions Reporting Housing Research; 15. Educational Institutions Reporting No Housing Research; 16. Foundations and Nonprofit Agencies Reporting Housing Research; 17. Professional Societies, Trade Associations, Reporting Housing Research; 18. Commercial Laboratories Reporting Housing Research; 19. Summarized Reports of Research Organizations; 20. PART IV—SURVEY OPERATIONS; 21. Scope of Subject Matter; 22. Method of Selecting Organizations Surveyed; 23. The Survey Questionnaire; 24. Canvassing Operations; 25. Editing Methods; 26. Tabulation of Survey Data; 27. Review and Over-all Analysis of Survey; 28. APPENDIX; 29. Sample Covering Letter to Organizations; 30. Form, "General Information on How to Report"; and 31. The Questionnaire Forms.

**ABSTRACT.** A handbook to provide industry with as much information as possible about what is being done in housing research by educational institutions, scientific foundations, professional societies and trade associations, and commercial laboratories. The Division of Housing Research, Housing and Home Finance Agency, engaged the National Academy of Sciences to conduct the survey which was carried out by the Academy's Building Research Advisory Board. It is the first comprehensive survey of this character ever made in the United States and is, therefore, a pioneering achievement. The study is intended to assist the housing industry to make the most efficient use of current research activity and to furnish data as to facilities available for further housing research. The survey was directed by William H. Schick, Executive Director, Building Research Advisory Board, with the assistance of Albert Dickens and others, HIFA staff technician on the project was Eugene A. Tilleux.

### (c) H.H.F.A. Research Publications

- (1221) **TECHNICAL BULLETIN** Published by, or for, the Housing and Home Finance Agency, Washington, D. C. Bulletins 1-5 inclusive were prepared by the Technical Staff (of the Office of the Administrator) of which Leonard G. Haeger was Director. Bulletins 6-11 inclusive were prepared by the Division of Standardized Building Codes and Materials, of which Leonard G. Haeger was Director. Bulletins 12-17 inclusive were prepared by the Division of Housing Research of which Richard U. Ratcliff was Director. Publication of the *Technical Bulletin* ceased in June 1951 with issue No. 17. It was thereafter succeeded by *Hous-*

*ing Research*, a journal of somewhat broader scope, designed to accommodate socio-economic, as well as technical, articles growing from the broadened HIFA research program provided for by the Housing Act of 1949.

Availability: Bulletins 1-9 were published (by the multithird process) and distributed by the Housing and Home Finance Agency. Except for a few copies of *Bulletins* 1, 4, 5, 6, 7 and 9, however, they are now out of print and are available only through libraries. Bulletins 10-17 were published by, and are still available from, the U. S. Government Printing Office; Price: The prices of available *Technical Bulletins* 10-17 are indicated separately below. Copies should be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

- (1221b) **TECHNICAL BULLETIN** NO. 1, November 1947, 34 pages.

**CONTENTS:** (a) "Lower Costs Through Better Codes" pages 3-6; (b) "Housing Research" pages 7-17—(i) Uniform plumbing code, (ii) Lightweight concrete, (iii) Condensation control studies, (iv) Individual sewage disposal systems; (c) "Insulation of Concrete Floors in Dwellings" by Laurence Shuman, pages 18-28; (d) "Earth Constructions" using adobe blocks, bitudobe blocks, monolithic terracote, terracote blocks, and rammed earth (*pisé de terre*), pages 29-32.

- (1221b) **TECHNICAL BULLETIN** NO. 2, January 1948, 56 pages.

**CONTENTS:** (a) "Current Progress in Code Improvement" pages 1-3; (b) "Planning the House Before Designing" pages 5-9; (c) "Wood Roof Trusses for Small Dwellings" pages 11-16; (d) "Crawl Spaces" by Ralph R. Britton, pages 17-39; (e) "Winter Building Methods" pages 41-52.

- (1221c) **TECHNICAL BULLETIN** NO. 3, March 1948, 58 pages.

**CONTENTS:** (a) "Insulation—Where and How Much" by Laurence Shuman, pages 1-15; (b) "Basements vs. No Basements for Houses; Part I" pages 17-26; (c) "Cost Reduction through Functional in lieu of Specification Requirements" pages 27-35; (d) "Graphic Analysis of Self-Siphonage of Fixture Traps, Wet Venting and Stack Venting" by V. T. Manas, Chairman, Uniform Plumbing Code Committee, pages 36-42; (e) "Modular Coordination—A Promising Approach to Lower Costs" pages 43-53.

- (1221d) **TECHNICAL BULLETIN** NO. 4, May 1948, 30 pages.

**CONTENTS:** (a) "Septic Tank Studies" by Laurence Shuman, pages 1-10; (b) "Basements vs. No Basements for Houses; Part II—Utility Room Within the Structure" pages 11-18; (c) "What to do About Condensation" by E. R. Over and E. R. McLaughlin of Pennsylvania State College, pages 19-27.

- (1221e) **TECHNICAL BULLETIN** NO. 5, July 1948, 65 pages.

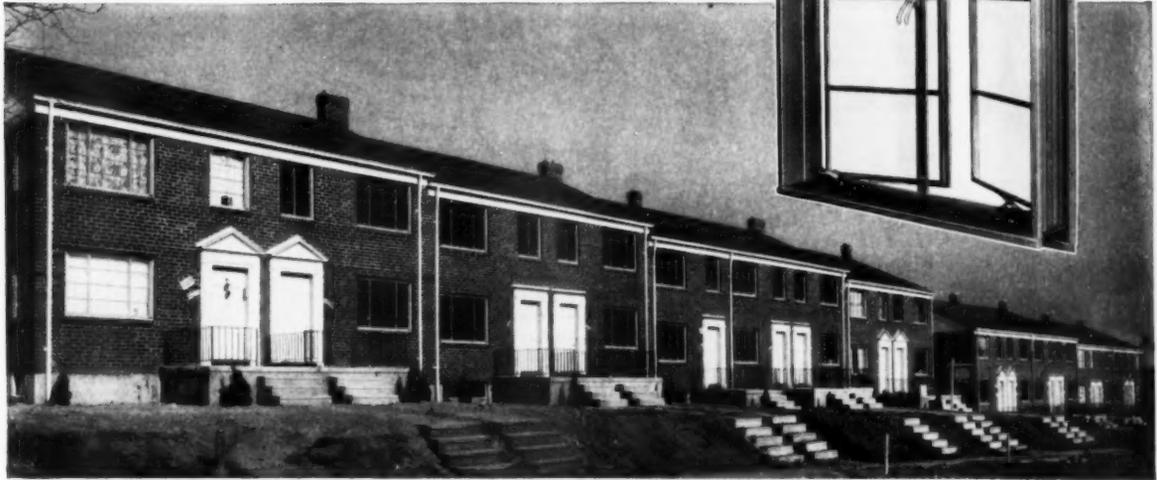
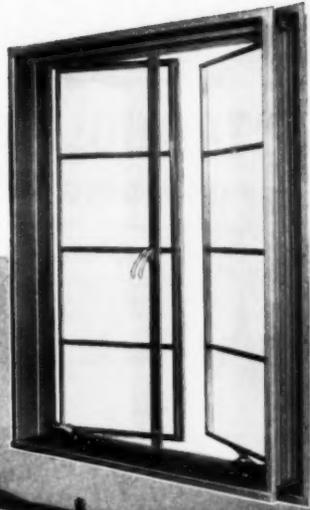
**CONTENTS:** (a) "Fuel Consumption in the Home" by Laurence Shuman, pages 1-17; (b) "Basements vs. No Basements for Houses; Part III—Two-Story Structures" pages 19-31; (c) "Information Notes: Water Penetration and Vapor Permeability of Sheet Materials as Related to Condensation Control in Dwelling Construction" by Ralph R. Britton, pages 33-37; (d) "Small-Scale Manufacture of Insulating Boards from Wood Wastes" by E. A. Anderson, M. Hering, J. P. Hoff, C. E. Hrubsky, M. A. Millett, S. L. Schwartz, F. J. Spinar, F. A. Strenge, and H. Dale Turner, of the Forest Products Laboratory, pages 39-61.

- (1221f) **TECHNICAL BULLETIN** NO. 6, September 1948, 51 pages.

**CONTENTS:** (a) "Backing Loads and Resistance to Them in Dwelling Construction" by Ralph R. Britton, pages 1-23; (b) "The Outlook for Modular Coordination and Standardization" by Leonard G. Haeger, pages 25-28; (c) "Attic Condensation in Tightly Built Houses" by C. A. Jordan, E. C. Peck, F. A. Strenge, and L. V. Teesdale, of the Forest Products Laboratory, pages 29-46.



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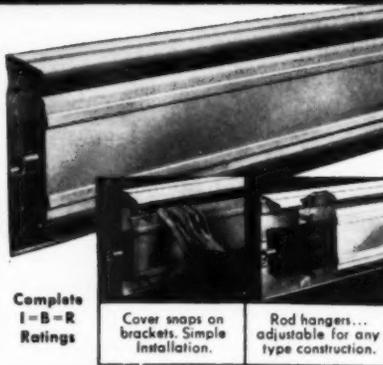
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(1221g) TECHNICAL BULLETIN  
NO. 7, November 1948, 47 pages.

CONTENTS: (a) "Aspects of Electrical Installations in Houses: Code, Comfort and Convenience" by Jefferson D. Brooks, pages 1-13; (b) "Model Bill for Statute Authorizing Adoption of Codes by Reference" pages 13-19; (c) "Individual Sewage Disposal Systems: Part I" pages 21-41.

(1221h) TECHNICAL BULLETIN  
NO. 8, January 1949, 245 pages.

(NOTE: This "Special Issue" reprints 15 of the 27 articles appearing in numbers 1-7, and adds two new articles: the second part of Mr. Brooks' paper on "Aspects of Electrical Installations in Houses" and the paper entitled "Lower Costs Through Power Tools and Equipment.")

CONTENTS: (a) "Model Bill for Statute Authorizing Adoption of Codes by Reference" pages 1-5; (b) "Cost reduction Through Functional in Lieu of Specification Requirements" pages 7-15; (c) "Modular Coordination—A Promising Approach to Lower Costs" pages 17-21; (d) "Planning the House Before Designing: A Graphic Study of Livability Problems" pages 23-27; (e) "Basements vs. No Basements for Houses: Parts I, II, and III" pages 29-59; (f) "Wood Roof Trusses for Small Dwellings" pages 61-66; (g) "Attic Condensation in Tightly Built Houses" pages 67-84; (h) "Crawl Spaces" pages 85-107; (i) "Racking Loads and Resistance to Them in Dwelling Construction" pages 109-131; (j) "Insulation—Where and How Much" pages 133-147; (k) "Insulation of Concrete Floors in Dwellings" pages 149-159; (l) "Fuel Consumption in the Home" pages 161-177; (m) "Graphic Analysis of Self-Siphonage of Fixture Traps" pages 179-185; (n) "Septic Tank Studies" pages 187-196; (o) "Aspects of Electrical Installations in Houses" by Jefferson D. Brooks. In two parts: (i) "Code, Comfort and Convenience" pages 197-209; (ii) "Requirements for Convenience and Efficiency" pages 211-235; (p) "Lower Costs Through Power Tools and Equipment" (new) pages 237-239.

(1221i) TECHNICAL BULLETIN  
NO. 9, March 1949, 43 pages.

CONTENTS: (a) "Coordination and Standard Products in Small House Design" pages 1-6; (b) "Concrete Masonry" by Amund M. Korsmo, pages 7-17; (c) "Aspects of Fire and Safety in Relation to Space Planning for Mechanical Equipment in Houses" by Jefferson D. Brooks, pages 19-37.

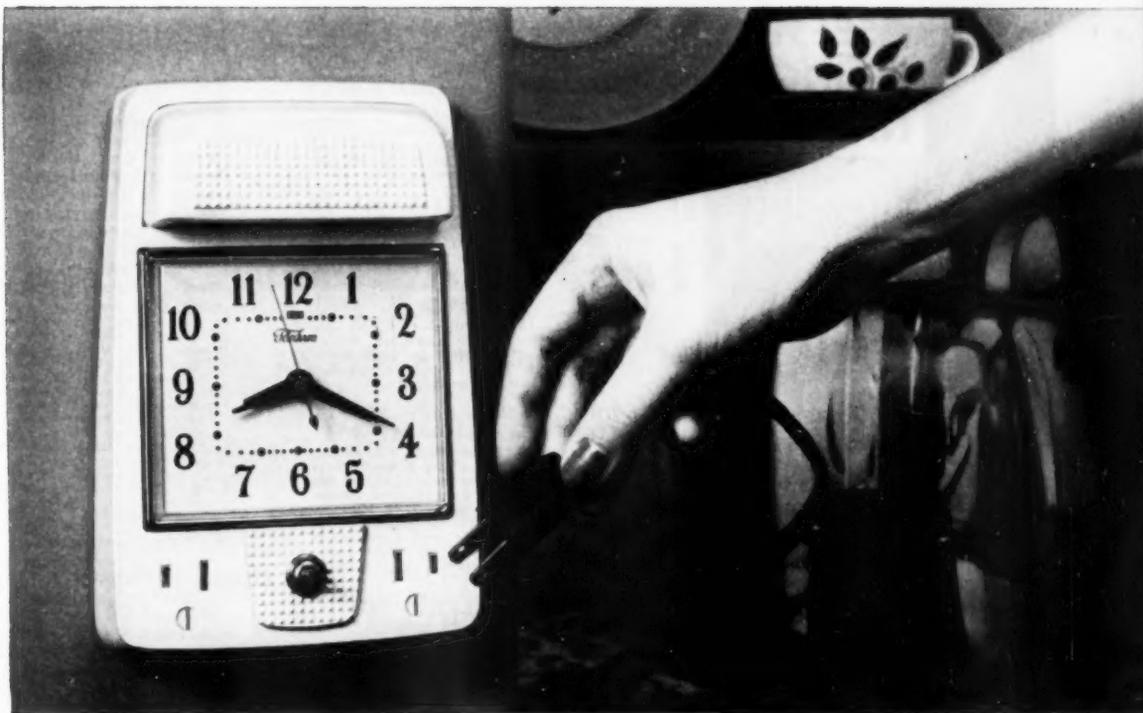
TECHNICAL BULLETIN NO. 10,  
May-July 1949, 35 pages.

CONTENTS: (a) "Application of the Floor Furnace in the Heating of Small Houses" by Robert K. Thulman, pages 1-9. See item (224) of this reading list; (b) "Condensation Control in Dwelling Construction: Good Practice Recommendations" by Ralph R. Britton, pages 11-15. See item (214) of this reading list; (c) "Individual Sewage Disposal Systems: Part II" pages 17-32. See item (571) of this reading list.

TECHNICAL BULLETIN NO. 11,  
September-November 1949, 42 pages.

CONTENTS: (a) "Coordination in Building Construction" by Bernard Wagner, pages 1-6. See item (265) of this reading list; (b) "Water Vapor Resistance of Building Materials" by Ralph R. Britton and Robert C. Reichel, pages 7-13. See item (645) of this reading list; (c) "Report on Survey of Factors Hindering More General Acceptance of the Modular Principle in Design and Construction" by the Executive Committee of the Building Research Advisory Board. See item (264) of this reading list; (d) "Individual Sewage Disposal Systems: Part III" pages 19-37. See item (571) of this reading list. See also IHFA Technical Paper No. 14: Septic Tank Studies (Individual Sewage Disposal Systems) which is item (582) of the present reading list.

TECHNICAL BULLETIN NO. 12,  
January 1950, 20 pages.



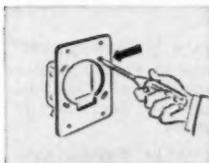
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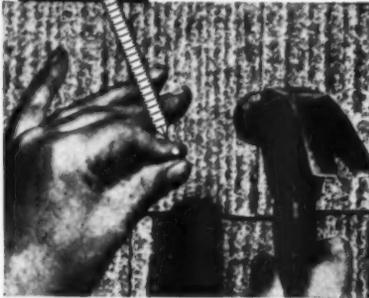
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CONTENTS: (a) "Aspects of Electrical Conduit Installations in Houses" by Jefferson D. Brooks, pages 1-7. See item (661) of this reading list; (b) "Report on Tests for Condensation on Reflective Insulation Under Wooden Floor" by Laurence Shuman, pages 9-12. See item (644) of this reading list; (c) "Water Vapor Transmission of Building Materials, Using Four Different Testing Methods" by Ralph R. Britton and Robert C. Reiche, pages 13-16. See item (643) of this reading list.

**TECHNICAL BULLETIN NO. 13,**  
March 1950, 31 pages.

CONTENTS: (a) "Rad Control in Existing Dwelling Units" by E. J. Herringer, pages 1-9. See item (1031) of this reading list; (b) "Expected Resistance to Racking of Douglas Fir Plywood-Sheathed Walls" by William A. Russell, pages 11-15. See item (301) of this reading list; (c) "Low-Cost Wiring Methods and Materials for Houses" by Jefferson D. Brooks, pages 17-28. See item (662) of this reading list.

**TECHNICAL BULLETIN NO. 14,**  
May-July 1950, 31 pages.

CONTENTS: (a) "Economics of Row Houses for Rental Properties" by Bernard Wagner, pages 1-14. See item (127) of this reading list; (b) "Prevention of Dampness in Basements" by Perry H. Petersen, pages 15-21. See item (642) of this reading list; (c) "Ratproof Construction of Dwellings" by E. J. Herringer, pages 23-27. See item (281) of this reading list.

**TECHNICAL BULLETIN NO. 15,**  
September 1950, 25 pages.

CONTENTS: (a) "Design for Livability" by Bernard Wagner, pages 1-10. See item (122) of this reading list; (b) "Performance of Modular Clay Flue Linings" by Robert E. Thulman, pages 11-15. See item (225) of this reading list; (c) "Noise in Domestic Water Systems" by Fred W. McGhan, pages 17-22. See item (558) of this reading list.

**TECHNICAL BULLETIN NO. 16,**  
November 1950, 24 pages.

CONTENTS: (a) "Greater Livability at Small Additional Cost" pages 1-11. See item (124) of this reading list; (b) "Foamed Concrete" pages 13-15. See item (511) of this reading list; (c) "Water Flow Rates in Piping" by Fred W. McGhan, pages 17-19. See item (162) of this reading list.

**TECHNICAL BULLETIN NO. 17,**  
June 1951, 20 pages.

CONTENTS: (a) "Raising Roofs by Hydraulic Jacks Lowers Construction Costs" by Stanley P. Stewart, pages 1-6. See item (481) of this reading list; (b) "Accelerated Weathering Test of Treatments, Priming Coat, and Finish Paint for Aluminum Sheet Metal" by Perry H. Petersen, pages 7-10. See item (605) of this reading list; (c) "Septic Tank Systems and Garbage Grinders" by Fred W. McGhan, pages 11-16. See item (583) of this reading list.

(No further issues of the *Technical Bulletin* were published. See *Technical Papers* and *Housing Research*.)

(1222) **TECHNICAL PAPERS**—Published by the Housing and Home Finance Agency, Washington, D. C. *Technical Papers* 1, 2, 3 and 4 were originally published by the National Housing Agency and were republished by the H.H.F.A. *Technical Papers* 1 through 10 were prepared, within the Office of the Administrator, by the Technical Staff of which Leonard G. Haeger was Director. *Technical Papers* 11, 12, and the original edition of 13, were prepared by the Division of Standardized Building Codes and Materials, of which Leonard G. Haeger was Director. *Technical Paper* 14 was prepared by the Division of Housing Research, of which Richard U. Ratcliff was Director. The series came to an end with *Technical Paper* No. 14, in May 1950. The original editions of *Technical Pa-*

*pers* 1-5 had been mimeographed. They were thereafter multilithed. In March 1951 the *Technical Papers* were succeeded by a series of *Housing Research Papers*, published, for the H.H.F.A., by the U. S. Government Printing Office. The first paper of the new series ("Fixture Unit Ratings Used in Plumbing System Design") was designated as *Housing Research Paper* No. 15, thus carrying on the numbering of the earlier series. In November 1952, *Technical Paper* No. 13 was revised and republished as *Housing Research Paper* No. 13.

Availability: Only *Technical Papers* 7, 9, 10, 11, and 14 are now available. Requests for copies should be addressed to the Housing and Home Finance Agency, Washington, D. C. *Technical Papers* 1, 2, 3, 8 and 12 were progress reports on a project conducted, at the Engineering Experiment Station of Pennsylvania State University, on condensation in walls and roofs. They have been succeeded by the final report on the project, published as *Housing Research Paper* 16: "Moisture and the Durability of Wood-Frame Walls." *Technical Paper* 6 has been superseded by the "Report of the Coordinating Committee for a National Plumbing Code," for which see item (922) of this reading list.

(1222a) **TECHNICAL PAPERS NOS. 1, 2 AND 3:** "Condensation in Walls and Roofs" by Ralph R. Britton, in cooperation with the Office of the Housing Expediter. All three papers combined under one cover, July 1948.—74 pages; (a) *Technical Paper* 1, originally published in March 1947.—14 pages; (b) *Technical Paper* 2, originally published in June 1947.—18 pages; (c) *Technical Paper* 3, originally published in September 1947.—42 pages.

(1222b) **TECHNICAL PAPER NO. 4:** "Selected References on Requirements and Public Acceptance Factors Relating to Housing Design. Part 1. List of References. Part 2. Detailed Studies and Surveys." Published in April 1947.—19 pages.

(1222c) **TECHNICAL PAPER NO. 5:** "Design Data—Bedrooms" by Harold Sandbank. Published in December 1947.—9 pages.

(1222d) **TECHNICAL PAPER NO. 6:** "The Uniform Plumbing Code for Housing." Published in February 1948.—83 pages.

**TECHNICAL PAPER NO. 7:** "Physical Properties and Fabrication Details of Experimental Honeycomb-Core Sandwich House Panels." Published in February 1948. See item (303) of this reading list.

(1222e) **TECHNICAL PAPER NO. 8:** "Condensation in Walls and Roofs" (Progress Report No. 4) by Ralph R. Britton. Published in April 1948.—21 pages.

**TECHNICAL PAPER NO. 9:** "Some Properties of Paper-Overlaid Veneer and Plywood." Published in May 1948. See item (719) of this reading list.

**TECHNICAL PAPER NO. 10:** "Properties of Four Experimental Flush-Type Doors." Published in August 1948. See item (720) of this reading list.

**TECHNICAL PAPER NO. 11:** "Properties of Experimental Wood-Base House Flooring Materials (Including a Tentative Test Procedure for

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Flooring." Published in November 1948. See item (421) of this reading list.

(1222f) **TECHNICAL PAPER NO. 12:** "Condensation in Wood Frame Walls Under Variable State Conditions of Exposure" (Progress Report No. 5), by Ralph R. Britton and Robert C. Reichel. Published in June 1949.—51 pages.

**TECHNICAL PAPER NO. 13:** "Performance of Masonry Chimneys for Houses" by Robert K. Thulman. Published in August 1949.—46 pages. For the revised edition of this report, see item (624) of this reading list.

**TECHNICAL PAPER NO. 14:** "Septic Tank Studies" by Laurence Shuman and Fred W. McGhan. Published in May 1950.—84 pages. See item (582) of this reading list.

All subsequent papers in this series were published as *Housing Research Papers* of the Housing and Home Finance Agency.

(1223) **HOUSING RESEARCH [QUARTERLY]**—Published by the Housing and Home Finance Agency, Washington, D. C. This publication is issued approximately at quarterly intervals, in the Spring, Summer, Fall and Winter. The six or seven articles comprising each issue (of 50 to 75 pages) describe the results of the contract and staff research of the Housing and Home Finance Agency. It replaces the HIFA Technical Bulletin, which was limited to reporting the results of research in housing technology. Most of the articles are written by staff members of the HIFA's Division of Housing Research. Others are written by scholars and scientists in agencies and organizations conducting housing research under HIFA contracts. The first issue appeared in the Fall of 1951 while Richard U. Ratcliff was Director of Housing Research. The remainder were issued under his successor, Joseph H. Orendorff. The quarterly has been edited, in turn, by Winfield Best, Helen K. Delany, and Russell Hugin. The contents of the several successive issues is given below, and each article is more fully described elsewhere in the present reading list, under its appropriate subject heading. The number enclosed in parentheses following the title of each article indicates the number of the more complete reference thereto in the present reading list. Issues 1 through 4 of *Housing Research* are priced at 30¢ each; issue 5 is priced at 40¢. Copies should be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.

Contents of *Housing Research* No. 1—Fall 1951: "Techniques for Conservation in Home Construction" (266); "Small City Mortgage Market: Hagerstown" (875); "Metropolitan Mortgage Market: San Francisco" (876); "Building Self-Help Homes" (761); "Surveying Materials Used in Home Construction" (153); and "Notes on New HIFA Housing Research Contracts" (1205).  
Contents of *Housing Research* No. 2—Winter 1951—1952: "Metals Saving Trends in Domestic Heating" (625); "Home Financing 1949—51—Changes Under Credit Controls" (845); "How Our Aged Families Are Housed" (1121); "Results of a Survey of Housing Research" (1206); "Regional Patterns of

Materials Used in New Houses" (152); "Prevention of Cold Weather Roof Leaks" (482); "Lag in the Use of Residential Building Permits" (998).  
Contents of *Housing Research* No. 3—Spring 1952: "How Important Are Conversions in the Current Housing Scene?" (131); "Trailer Coach Industry Survey for the Year 1950" (752); "An Outline for Research on Building Regulations" (901); "Will Science Plan the Home of Tomorrow?" (133); "Development of National Plumbing Code" (921); and "Snow Load Studies" (172).  
Contents of *Housing Research* No. 4—October 1952: "Why People Buy the Houses They Do" (14); "National and Local Mortgage Market Structures" (847); "Durability of Moisture-Resistant Membrane Materials in Contact with the Ground" (641); "Regional Design Characteristics of New Houses" (151); "Application of Large Modules to Industrialized Housing" (263); "Food Waste Disposal Units" (591); "Chimney Location: A Practical Money and Materials Saver for the Home Builder" (130); "Saving Copper in House Wiring, Part I—Service Entrance Cable" (131).  
Contents of *Housing Research* No. 5—March 1953: "Is Your Roof Construction Leaking Dollars?" (483); "Selection of Durable Exterior White House Paint" (606); "New Home Price Shifts, 1951—52, Under Credit Controls As Announced in 1951" (844); "The Fully Insulated House" (202); "Better Building Codes Through Better Administration" (902); "Chimney Location—Part II. A Practical Money and Materials Saver for the Home Builder" (130); and "Saving Copper in House Wiring—Part II—Fixed Appliance Circuits" (131).  
Contents of *Housing Research* No. 6—October 1953: "Mobility and Migration as Factors in Housing Demand" (12); "Humidity Conditions in Modern Houses" (192); "Clear-Span Roof Trusses for One-and-One-Half Story Houses" (484); "A Program for Local Training of Building Officials" (907); and "Highlights of Outstanding Residential Mortgage Debt Analysis" (846).

#### (d) Other Housing Research Studies

(1231) **UNIVERSITY OF ILLINOIS, SMALL HOMES COUNCIL, CIRCULAR SERIES.** This is a series of approximately 30 technical circulars issued by the Small Homes Council as University of Illinois Bulletins. In addition to the Circular Series Index Number, each circular also carries a Volume, Number and Date of the Bulletin series. In the entries shown below the Circular Series Index Number is given first, followed by the title of the circular. Then follows, in parentheses, the Bulletin volume, number, and date. Then follows the name of the person who prepared the circular, the number of pages, and (if shown) the price. Copies are available from the Small Homes Council, Mumford House, University of Illinois, Urbana, Illinois.

(1231a) A1.3—Financing the Home (Vol. 49, No. 29; December 1951); prepared by Russell M. Nolen; illustrated by W. S. Pusey; edited by M. H. Kennedy; 12 pages; price 10¢.

(1231b) A2.0—Business Dealings With the Architect and the Contractor (Vol. 45, No. 51; April 22, 1948); prepared by J. T. Lendrum, F. M. Lescher, and W. H. Scheick, with the assistance of Consultant G. F. Oman of Ohio State University; M. H. Kennedy, editor;—6 pages; price not stated, but probably 10¢.

(1231c) B1.1—Selecting a Livable Neighborhood (Vol. 42, No. 33; April 3, 1945); prepared by K. B. Lohmann and J. T. Lendrum;—4 pages; price not stated, but probably 10¢.

(1231d) B2.1—A Guide to Selecting the Home Site; the Individual Urban Lot (Vol. 42, No. 18; December 19, 1944); prepared by R. M. Nolen, O. G. Schaffer, K. B. Lohmann, F. B. Robinson, W. H. Scheick, D. B. Lindsay, A. K. Laing, and J. T. Lendrum;—4 pages; price not stated, but probably 10¢.

(1231e) B3.0—Fundamentals of Land Design (Vol. 44, No. 55; May 12, 1947); prepared by S. White with the assistance of Consultants H. W. Gilbert, O. G. Schaffer, and W. H. Scheick. Edited by M. H. Kennedy;—8 pages; price not stated, but probably 10¢.

(1231f) C2.1—Designing the Home: How to Select a Plan (Vol. 42, No. 45; June 26, 1945); prepared by A. K. Laing, J. T. Lendrum, D. B. Lindsay, and W. H. Scheick;—8 pages; price not stated, but probably 10¢.

(1231g) C3.2—Solar Orientation in Home Design (Vol. 42, No. 25; February 6, 1945); prepared by W. H. Scheick and L. B. Lindsay;—4 pages; price not stated, but probably 10¢.

(1231h) C5.1—Household Storage Units (Vol. 50, No. 42; January 1953); prepared by Helen E. McCullough; illustrated by W. S. Pusey; edited by M. H. Kennedy;—12 pages; price: 10¢.

(1231i) C5.11—Storage Partitions (Vol. 51, No. 12; September 1953); prepared by W. H. Kapple, with the assistance of Consultants R. A. Jones and J. T. Lendrum; illustrated by J. J. Sorbie; edited by M. H. Kennedy;—8 pages; price: 10¢.

(1231j) C5.31—Cabinet Space for the Kitchen (Vol. 46, No. 43; February 1949); prepared by Helen E. McCullough, with the assistance of Architectural Consultant E. M. Ranney and W. H. Scheick; edited by M. H. Kennedy;—8 pages; price: 10¢.

(1231k) C5.32—Kitchen Planning Standards (Vol. 47, No. 19; October 1949); prepared by Elizabeth M. Ranney, with the assistance of Consultants Helen E. McCullough and W. H. Scheick; edited by M. H. Kennedy;—8 pages; price: 10¢.

(1231l) C7.2—A Basic Farmhouse Plan (Vol. 45, No. 14; October 1947). Prepared by D. G. Carter, H. W. Gilbert, M. R. Goodyear, K. H. Hinchcliff, and W. H. Scheick, consulting committee; R. P. Simon, architectural design; W. S. Pusey, J. S. Baker, and H. E. Schroeder, models and delineation; edited by M. H. Kennedy;—8 pages; price not stated, but probably 10¢.

(1231m) E2.1—Construction Methods (Volume 46, No. 12; September 1948); prepared by J. T. Lendrum and G. Rethberg; edited by M. H. Kennedy;—12 pages; price: 10¢.

(1231n) F4.3—Concrete Floors for Basementless Houses (Vol. 45, No. 73; August 1948); prepared by H. D. Bareither and J. T. Lendrum, with the assistance of Consultants S. Konzo and W. H. Scheick; edited by M. H. Kennedy;—4 pages; price: 10¢.

(1231o) F6.0—Insulation in the Home (Vol. 43, No. 39; February 1946); prepared by J. T. Lendrum, S. Konzo, A. P. Kratz, and W. S. Harris;—8 pages; price not stated, but probably 10¢.

(1231p) F6.2—Moisture Condensation (Vol. 44, No. 34; January 1947); prepared by Frank B. Rowley, Director, University of Minnesota Engineering Experiment Station;—8 pages; price not stated, but probably 10¢.

(1231q) F7.0—Chimneys and Fireplaces (Vol. 43, No. 17; November 1945); prepared by S. Konzo, J. T. Lendrum, K. H. Hinchcliff, and W. S. Harris;—8 pages; price not stated, but probably 10¢.

(1231r) F11.2—Storm Sash for Double-Hung Windows (Vol. 43, No. 2; August 1945); prepared by A. P. Kratz, S. Konzo, W. S. Harris and W. H. Scheick; 4 pages; price not shown, but probably 10¢.

(1231s) F15.0—Hardware for the Home (Vol. 44, No. 14; October 1946); prepared by M. H. Kennedy and W. H. Scheick, illustrated by W. S. Pusey;—8 pages; price not stated, but probably 10¢.

(1231t) G3.1—Heating the Home (Vol. 48, No. 71; June 1951); prepared by W. S. Harris, S. Konzo, and R. W. Roose, with the assistance of Architectural Consultant J. T. Lendrum; illustrated by W. S. Pusey; edited by M. H. Kennedy;—12 pages; Price: 10¢.

(1231u) G3.2—Controls for Central Heating Systems (Vol. 49, No. 55; March 1952); prepared by W. S. Harris, S. Konzo, and R. W. Roose of the Engineering Experi-

ment Station; editorial writer: M. E. Hausrath; illustrator: W. S. Pusey; editor: M. H. Kennedy.—8 pages; Price: 10c.

- (1231v) G3.5—Fuels and Burners for Domestic Heating; Solid, Liquid, Gas (Vol. 46, No. 78; July 1949); prepared by R. Fellows, W. S. Harris, J. A. Henry, S. Konzo, A. P. Kratz, J. T. Lendrum, and J. C. Miles.—8 pages; price: 10c.
- (1231w) G3.61—Homes Planned for Coal or Coke (Vol. 46, No. 70; May 1949); prepared by Rudard A. Jones; edited by M. H. Kennedy.—12 pages; price: 10c.
- (1231x) G4.0—Planning for Electricity in the Home (Vol. 43, No. 13; October 1945); prepared by J. O. Kralhenbuehl, M. S. Helm, and W. H. Scheick.—8 pages; price not stated, but probably 10c.
- (1231y) G4.4—Communications in the Home (Vol. 43, No. 70; July 1946); prepared by M. S. Helm and W. H. Scheick.—4 pages; price not stated, but probably 10c.
- (1231z) G5.0—Plumbing (Vol. 48, No. 15; October 1950); prepared by J. T. Lendrum; illustrated by W. S. Pusey; edited by M. H. Kennedy.—12 pages; price: 10c.
- (1231aa) G5.5—Septic Tank Systems (Vol. 44, No. 62; June 1947); prepared by E. W. Lehmann, with the assistance of Consultants H. E. Babbitt and D. G. Carter, and of G. K. Henclix, Division of Sanitary Engineering, Illinois Department of Public Health; illustrated by W. S. Pusey; edited by M. H. Kennedy.

—6 pages; price not stated, but probably 10c.

- (1231bb) G6.0—Summer Comfort (Vol. 50, No. 79; July 1953); prepared by S. F. Gilman, W. S. Harris, S. Konzo, R. W. Roose, W. F. Stoecker (Department of Mechanical Engineering); and R. A. Jones and J. T. Lendrum (Small Homes Council); edited by M. H. Kennedy.—8 pages; price: 10c.
- (1231cc) H1.0—Interior Design (Vol. 47, No. 72; June 1950); prepared by J. R. Shipley; design and illustrations by W. S. Pusey; edited by M. H. Kennedy.—8 pages; price: 10c.
- (1232) THE GOOD HOUSEKEEPING BUILDING FORUM SERIES—This is a series of illustrated booklets on various aspects of home building, prepared and published by the Good Housekeeping Building Forum, of which Joseph B. Mason is Director. Copies of the bulletins described below, which sell for fifty cents each, may be obtained from Good Housekeeping, 57th Street at 8th Avenue, New York 19, N. Y.
- (1232a) Booklet No. 1—Foundations and Basements by Joseph B. Mason, Jule R. Von Sternberg, and Ronald Allwork.

Drawings by Sigman-Ward.—25 pages; published in 1947.

- (1232b) Bulletin No. 2—Heating and Air Conditioning by Joseph B. Mason, Jule R. Von Sternberg, and Ronald Allwork. Drawings by Sigman-Ward.—27 pages; published in 1947.
- (1232c) Bulletin No. 3—Insulation, Weather Stripping, Storm Sash; no authors listed.—17 pages; published in 1947.
- (1232d) Booklet No. 4—How to Build a Safer Home by Joseph B. Mason; Jule R. Von Sternberg, technical editor; drawings by Frederick L. Hankinson.—25 pages; published in 1948.
- (1232e) Booklet No. 5—Electrical Planning in the Home by Jule R. Von Sternberg; Ronald Allwork, technical editor; drawings by Sigman-Ward.—21 pages; published in 1948.
- (1232f) Booklet No. 6—The Book of Windows by Joseph B. Mason; Jule R. Von Sternberg, technical editor; drawings by George Cooper Rudolph.—29 pages; published in 1949.
- (1232g) Booklet No. 7—Adequate Plumbing by Joseph B. Mason, and Jule R. Von Sternberg, architect; Ronald Allwork, technical editor; drawings by Sigman-Ward.—23 pages; published in 1949.
- (1232h) Booklet No. 8—Building Without Tears by Joseph B. Mason; Kenneth Duncan, technical editor; drawings by Sigman-Ward.—31 pages; published in 1950.

## PART XIII

# GLOSSARIES

- (1241) A GLOSSARY OF HOUSING TERMS—Compiled by Subcommittee on Definitions, Central Housing Committee on Research, Design, and Construction;—J. Stanley Young, Secretary and Acting Chairman; Building Materials and Structures Report BMS 91; published by U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.—Issued September 3, 1942.—

32 pages; Out of print. See your librarian.

The purpose of this Glossary is to bring together for the convenient use of all persons concerned with housing the generally accepted definitions of a limited number of terms currently used in housing literature with definitions of closely related terms which are not fully defined in their special application to present-day housing in most dictionaries or glossaries. The majority of terms in this Glossary are listed alphabetically. However, for convenience in comparing the definitions of related terms, associated terms have been grouped together alphabetically and

listed under the following main terms, which will be found in their alphabetical location in the Glossary: Apartment types; apartment-house types; areas; buildings; construction types; corporation; deed; depreciation; dwelling types; electrical terms; elevator types; estate; fee types; framing systems; grade; grading; halls; house types; housing; land; lot types; lumber; measurements; mortgage loans; mortgage types; occupancy; partition types; plan types; planning; plants; plumbing terms; property types; rafter types; rent; rights; roof types; rooms; space; stairs; stairway types; traffic ways; uses; ventilation; walls; and window types.

## PART XIV

# BIBLIOGRAPHIES

- (1261) BUILDING TECHNOLOGY PUBLICATIONS OF THE NATIONAL BUREAU OF STANDARDS—Prepared and Published by the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C., September 6, 1949.—42 pages, mimeographed; price: not stated. Order copies from the National Bureau of Standards, U. S. Department of Commerce, Washington, D. C. In ordering, give the title, and then add: "Letter Circular LC 962."

Includes a consideration of: 1. Scientific Papers (This series was superseded by "Bureau of Standards Journal of Research" in 1928); 2. Technologic Papers (This series was superseded by "Bureau of Standards Journal of Research" in 1928); 3. Research Papers (Reprints of articles appearing in "Bureau of Stand-

ards Journal of Research" and in the "Journal of Research of the National Bureau of Standards," the latter being the title of this periodical after July 1934); 4. Building Materials and Structures Reports (Reports on results of Bureau of Standards investigations of properties and suitability of new materials and new methods of construction, for a complete listing of which see item 1233); 5. Building Research Summary Reports, (Mimeographed summary reports, including mention of one or more other publications on the particular subject treated); 6. Building and Housing (Reports of investigations and recommended requirements for building and housing, A discontinued series.); 7. Circulars (Compilations of information on various subjects related to the Bureau's scientific, technical, and engineering activities); 8. Handbooks (Recommended codes of engineering and industrial practice, including safety codes, developed in cooperation with the national organizations and others concerned); 9. Commercial Standards (Voluntary recorded standards agreed upon

by producers, distributors, and consumers, covering terminology, types, classifications, grades, sizes, and use characteristics of manufactured products); 10. Simplified Practice Recommendations (Recommendations developed by voluntary cooperation among manufacturers, distributors, consumers, and others interested, for reduction of excessive variety of manufactured products); 11. Miscellaneous Publications (Material which does not fit into any other series); 12. Letter Circulars (Mimeographed documents designed to answer any requests for information); 13. Unnumbered documents (Material not assigned to any series); 14. Subject Index (Names of various building materials and general topics, under which are given, by series letter and number, the publications listed in full in parts 1 to 12).

ABSTRACT. The work lists publications of interest to those concerned with the design, planning, construction, maintenance, repair, and remodeling of buildings of all kinds, as well as those concerned with the production and use of building materials.



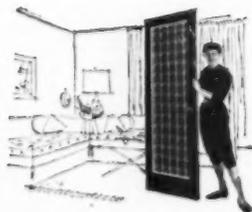
## News in doors...

Builders' plans for '54 promise more home for the money . . . more color . . . more texture. In this kind of planning re-styled fir picture panel doors are big news. The idea of treating doors as decorator pieces (instead of barriers) is catching on like grassfire and providing exciting sales appeal for new homes.

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Industry grade-trademark signifying independent inspection assures manufacture and quality called for in U. S. Commercial Standards.

(1262) SELECTED REFERENCES ON HOUSING OF MINORITIES—Prepared and published by the Housing and Home Finance Agency, Office of the Administrator, Racial Relations Service, in September 1951.—60 pages, mimeographed, hard covers; price: not stated. Order copies from Housing and Home Finance Agency, Office of the Administrator, Racial Relations Service, Washington 25, D. C.

Includes a consideration of: 1. Books (pages 1-5); 2. Pamphlets (pages 6-25); 3. Periodicals (pages 26-56); 4. Congressional Hearings (pages 57-59); and 5. Bibliographies (page 60).

ABSTRACT This booklet lists 587 articles or documents, devoting three or four lines to each item. The title, author, date and place of publication (or magazine in which included) are given, and also the number of pages. Prices are not shown.

(1263a) COOPERATIVE HOUSING: UNITED STATES, DENMARK, GREAT BRITAIN, FRANCE, SWITZERLAND, HOLLAND, NORWAY, SWEDEN (A Bibliography on Housing Built or Managed Cooperatively)—Compiled in the Library of the Office of the Administrator, Housing and Home Finance Agency, by Mrs. Marjorie W. Landis, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Washington, D. C., February 1950.—53 pages, multilithed; price: not stated. Order copies from Housing and Home Finance Agency Library, Washington, D. C.

Includes a consideration of: 1. Scope and Method; 2. Reference Sources; 3. United States; (a) General; (b) Financing; (c) Legislation and legal aspects; (d) Organization and Management; (e) Taxation; (f) Individual States: (i) California; (ii) District of Columbia; (iii) Georgia; (iv) Idaho; (v) Illinois; (vi) Indiana; (vii) Louisiana; (viii) Massachusetts; (ix) Michigan; (x) Minnesota; (xi) New Jersey; (xii) New York; (xiii) North Carolina; (xiv) Ohio; (xv) Oklahoma; (xvi) Pennsylvania; (xvii) Utah; (xviii) Virginia; (xix) Washington; (xx) Wisconsin; 4. Europe; (a) General; (b) Individual Countries; (i) Denmark; (ii) France; (c) Great Britain; (d) Holland; (e) Norway; (f) Sweden; (g) Switzerland; 5. Index to Authors, Projects, and Organizations.

ABSTRACT. This bibliography has been prepared to meet the need for a guide to experience and opinion in the field of cooperative housing.

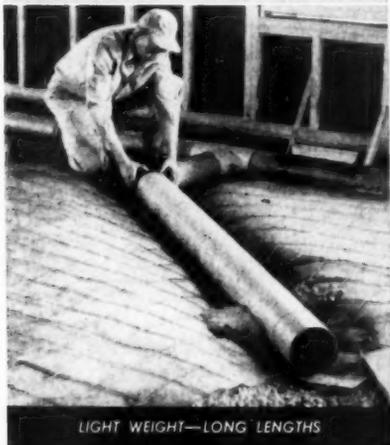
(1263b) SUPPLEMENT NO. 1 TO "COOPERATIVE HOUSING: UNITED STATES, DENMARK, GREAT BRITAIN, FRANCE, SWITZERLAND, HOLLAND, NORWAY, SWEDEN" (A Bibliography on Housing Built or Managed Cooperatively)—Compiled in the Library of the Office of the Administrator, Housing and Home Finance Agency, by Mrs. Marjorie W. Landis, under the general supervision of Mrs. Ruth L. Mace, Librarian; published by the Housing and Home Finance Agency, Washington, D. C., February 1951.—21 pages, multilithed.

Includes a consideration of: 1. United States; (a) General; (b) Legislation; (c) Section 213; (d) Individual States; (i) California; (ii) Connecticut; (iii) District of Columbia; (iv) Florida; (v) Georgia; (vi) Illinois; (vii) Louisiana; (viii) Massachusetts; (ix) New Jersey; (x) New York; (xi) North Dakota; (xii) Ohio; (xiii) Oklahoma; (xiv) Pennsylvania; (xv) Tennessee; (xvi) Virginia; (xvii) Washington; 2. Europe; (a) General; (b) Individual Countries; (i) Great Britain; (ii) Holland; (iii) Norway; (iv) Sweden; (v) Switzerland; 3. Index to Persons, Projects, and Organizations.

Cuts Costs With  
**FIBRE**

WARM AIR  
HEATING

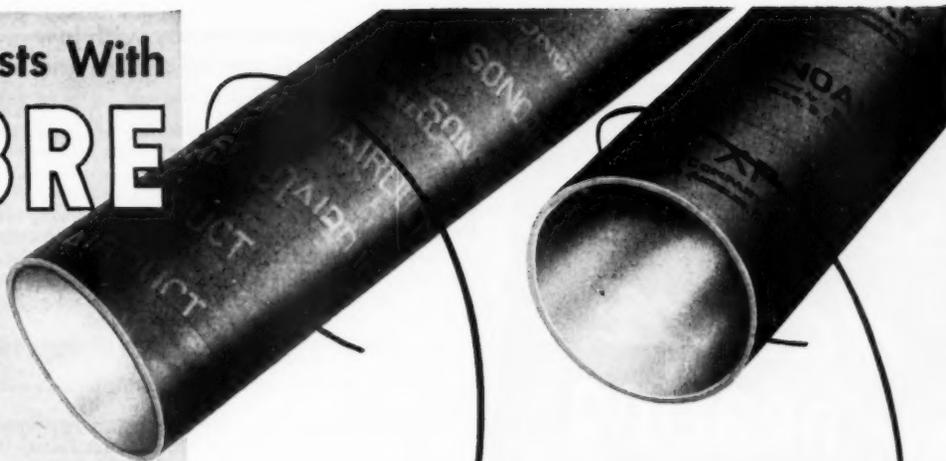
**DUCT**



LIGHT WEIGHT—LONG LENGTHS



EASY TO HANDLE—FASTER INSTALLATION



widely used and approved—  
permitted by F.H.A.

**IMPROVED** REGULAR  
**SONOAIRDUCT.**

PAT. APP. FOR

This is the economical fibre duct that has revolutionized the installation of gas and oil fired loop, radial and lateral slab heating systems! It has recently been improved AT NO EXTRA COST TO YOU and is now aluminum foil lined for lower coefficient of air friction—now wrapped in black, weather-resistant asphalt duplex kraft—now end-dipped to make it more impervious to moisture! Sonoairduct comes in easy-to-handle, easy-to-level long lengths, up to 50 ft. long, or it can be sawed to exact lengths on the job. 27 sizes—2" to 36" I.D. Fits all standard metal bends, registers, T's, etc.



**SONOAIRDUCT-XP**

PAT. APP. FOR

SONOAIRDUCT-XP fibre duct saves you time, labor and money in crawl, basement and attic space, gas or oil fired warm air systems as supply or return lines. It is lined with aluminum foil and wrapped outside with 16-lb. asbestos, with an equivalent insulation value of 26 ga. metal duct with HALF INCH fibre glass insulation! 2" to 36" I.D., up to 50 ft. long. Fits all standard metal fixtures.

**WRITE TODAY**

For Complete Information,  
Sources of Supply  
and Prices!



**SONOCO PRODUCTS COMPANY**

Construction Products Division

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5955 SOUTH WESTERN AVE.  
GARWOOD, N. J.

HARTSVILLE, S. C. — MAIN PLANT

BRANTFORD, ONT.

MONTCLAIR, N. J.  
14 SOUTH PARK STREET  
AKRON, IND.

# houses sell faster with **H.C. Little** heating



## a Complete Line

### And Builders save money with low first cost, space-saving design and easy, low-cost installation!

H. C. Little Automatic Heating offers home builders and buyers MORE FOR THE MONEY than any other heating equipment on the market: **SELF-LIGHTING OPERATION** by H. C. Little is automatic to the nth degree—trouble-free, attention-free, thermostat controlled.

**H. C. LITTLE OIL FURNACES** are the ONLY vaporizing units listed by the U. L. for low-cost, high-heat No. 2 oils.

**H. C. LITTLE GAS FURNACES** are the best engineered on the market.

**THE FIRST** electric ignition vaporizing oil heating equipment and **THE FIRST** successful oil floor furnace were introduced by H. C. Little. Now widely imitated—they have never been equalled.

**SPACE-SAVING DESIGN** is an H. C. Little feature—to reduce installation expense and cut building costs.

**25 YEARS EXPERIENCE** in residential heating means sound knowledge of YOUR problems.

**A FRANCHISED DEALER** is near you—to handle your requirements—backed by a liberal Factory Guarantee on oil furnaces or Factory Warranty on gas equipment.



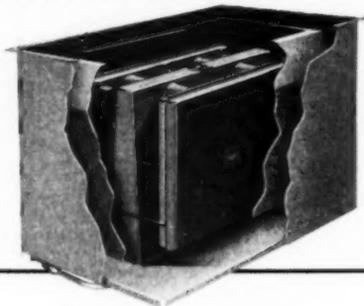
*Pictured here are a few of our most popular units. Dozens of other models, for oil or gas, are available for installation in the basement, in the floor, at floor level, in the wall and in the attic.*

**OIL FLOOR FURNACE**—the FIRST fully automatic electric ignition oil floor furnace! Special device permits heat even if electric power fails! The only unit of its type U. L. listed for low-cost, high-heat No. 2 oils! Efficient, compact, big heat output, factory guaranteed. Also Dual Register and Shallow models. 50,000 to 80,000 BTU output.



**GAS FLOOR FURNACE**—Porcelain-enameled heat exchanger and heat traps standard equipment, no extra cost, backed by liberal Warranty!

Automatic operation, thermostat controlled. No connection to house current needed—heat even in case of power failure! Space-saving design. Efficient, silent operation. A.G.A. Approved. Also Dual Register models. 25,000 to 70,000 BTU input.



#### **OIL WALL FURNACE**—

The FIRST oil wall furnace! A terrific value in small-home heating! No ducts, no wasted floor space. Perfect for compact, modern homes without basements, especially those built on a concrete slab. Features radiant panel on living room side, plus warm air discharge and cool air return both sides. 100% self-lighting electric ignition, thermostat controlled. Special device permits heat even if electric power fails! U. L. listed for low-cost, high-heat No. 2 oils. Compact, silent, safe. 40,000 to 65,000 BTU output.



#### **UP-FLOW FORCED AIR OIL FURNACE (Model U-AC)**—

Compact, upright design saves floor space—occupies only 5 1/4 sq. ft.—cuts building costs. U. L. listed for 1" clearance at sides and back—ideal for closet or utility room. Silent, clean, economical, trouble-free, extremely efficient. 82,000 BTU output. Other oil models to 120,000 BTU. "CF" gas models, 70,000 to 200,000 BTU input.



#### **DOWN-FLOW FORCED AIR OIL FURNACE (Model DF-AC)**—

Especially engineered for perimeter heating—occupies only 5 1/4 sq. ft. floor space. U. L. listed for zero clearance at sides and back! Silent burner, quiet blower. Amazingly efficient operation. 92,000 BTU output. "CI" gas models, 60,000 to 160,000 BTU input.

Look for your nearest H. C. Little Dealer

in the "Where to Buy It Locally" section of this issue or in your Phone Book Yellow Section. Or write the Factory for the name and address of your nearest Dealer.



**FAST SERVICE** available from numerous warehouse stocks. Full information offered by Distributors in areas indicated. Dealers Coast to Coast.



# H.C. Little

Burner Company, Inc.

Head Office & Factory  
San Rafael, Calif.

# 1954 American Builder Directory

THIS, the fourth issue of the annual directory compiled by the *American Builder*, gives the latest and most complete product and data information in the building field. Here contractors, builders, architects, and building material retailers will find information as to building products, their manufacturers, and brand names.

Section I—an alphabetical list of building products and equipment and their manufacturers:

Section II—an alphabetical list of brand names identified with names of manufacturers:

Section III—an alphabetical list of manufacturers' local distributors—a guide to where to buy it locally.

This year round reference directory is designed to serve the builder, contractor, architect and dealer. As every effort was made to make it as accurate as possible, the *American Builder* cannot be responsible for changes in names, addresses and other discrepancies.

## SECTION I

### Alphabetical List of

# Building Products and Equipment Manufacturers

IN THIS SECTION I, building products and equipment are listed in alphabetical order with the manufacturers of these products and equipment listed under the appropriate titles. No cross references have been used in this section. The editors feel that the readers of the *American Builder* are well acquainted with the terms employed in the

building industry and can lead themselves to the items in this directory. The principal proper nouns of classifications are the key words used in forming the alphabetical lists; for example, wood double hung windows are listed as—

### ► WINDOWS, DOUBLE HUNG, WOOD

The names of manufacturers who advertise in *American Builder* are printed in boldface

## A

### ► ABRASIVE PAPER & CLOTH

Abrasive Prods Inc 100 Pearl South Braintree Mass  
**AMERICAN FLOOR SURFACING MACHINE** CO 515 S ST CLAIR TOLEDO 3 OHIO  
Armour & Co Sandpaper Div 1353 W 31st Chicago 9 Ill  
Atlas Abrasives Corp 461-12th Brooklyn NY  
Bay State Abrasive Prods Co Union St Westboro Mass  
**BEHR-MANNING CORP DIV NORTON CO** 1554 SEIFERT TROY NY  
Carborundum Corp Buffalo Av Niagara Falls NY  
Clover Mfg Co 333 Main Norwalk Conn  
**GERWIN INDUSTRIES THERMO-BASE DIV** 214 SPRING MICHIGAN CITY IND  
Mecton Glue Mfg Co 611 Broadway New York 12 NY  
Macklin Co 2914 Wildwood Rd Jackson Mich  
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
**PITTSBURGH PLATE GLASS CO** 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
**RED DEVIL TOOLS** 130 COIT IRVINGTON NJ  
Sandpaper Inc 83 E Water Rockland Mass

### ► ACOUSTICAL MATERIALS

Adel Clay Prods Co 1118 Mulberry Des Moines 9 Iowa  
Air-O-Cel Co 22000 Woodward Av Detroit 20 Mich  
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
American Bldrok Co 2001 W Pershing Rd Chicago 9 Ill  
**ARMSTRONG CORK CO** 1010 CONCORD LANCASTER PA  
**CELOTEX CORP** 120 S LASALLE CHICAGO 3 ILL  
**CERTAIN-TEED PRODS CORP** 120 E LANCASTER AV ARDMORE PA  
Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal  
Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
**DANT & RUSSELL INC** 711 EQUITABLE BLDG PORTLAND ORE

E G Building Fasteners Corp 101 Park Av Room 1133 New York 17 NY  
Eastern Machine Prods Co 1601 Wicomco Baltimore 30 Md  
Hansson (Elof) Inc 220 E 42nd New York 17 NY  
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill  
**INSULITE CO DIV MINNESOTA & ONTARIO PAPER CO** 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN  
**JOHNS-MANVILLE CORP** 22 E 40TH NEW YORK 16 NY  
**KEASBY & MATTISON CO BUTLER AV** AMBLER PA  
Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio  
Kimberly-Clark Corp 128 N Commercial Neenah Wis  
Lockport Cotton Batting Co Elmwood Av Lockport NY  
Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio  
**NATIONAL GYPSUM CO** 325 DELAWARE AV BUFFALO 2 NY  
**OWENS-CORNING FIBERGLAS CORP** NICHOLAS BLDG TOLEDO 3 OHIO  
Porete Mfg Co Porete Av North Arlington NJ  
**REYNOLDS METALS CO BUILDING PRODS DIV** 2001 S NINTH LOUISVILLE 1 KY  
Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
Simpson Logging Co White Bldg Seattle 1 Wash  
Sprayzo-Flake Co 2727 W Irving Park Rd Chicago 11 Ill  
Tach-Fast Mfg Co Lonaconing Md  
Taylor Bedding Mfg Co Taylor Tex  
Texas Vermiculite Co 303 Brazos Austin Tex  
**UNITED STATES GYPSUM CO** 300 W ADAMS CHICAGO 6 ILL  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
Utah Pioneer Corp 333 W 1st S Salt Lake City Utah  
**WOOD CONVERSION CO** FIRST NATIONAL BANK BLDG ST PAUL 1 MINN  
**ZONOLITE CO** 135 S LASALLE CHICAGO 3 ILL

### ► ADHESIVES

**A & F TILEBOARD CO** LEE & ROY ST BOX 4085 ALEXANDRIA LA  
Abesto Mfg Co 131 Wabash Michigan City Ind  
Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill

Air Temperature Inc 283 Poplar Av Memphis 3 Tenn  
Alloy Tile Corp 100 Roosevelt Av Belleville NJ  
Ammerd Co 805 Franklin Boston 10 Mass  
**AMERCO PLASTICS** 177 BROADWAY NEW YORK 7 NY  
American Bitumuls & Asphalt Co 200 Bush San Francisco Cal  
American Rubber Prods Corp 151 E 50th New York 22 NY  
American Varnish Co 1140 N Branch Chicago 22 Ill  
**ARMSTRONG CORK CO** 1010 CONCORD LANCASTER PA  
Atlas Mineral Prods Co Mertzown Pa  
Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex  
B & T Metals Co 425 W Town Columbus 16 Ohio  
Barclay Mfg Co 385 Gerard Av Bronx NY  
Barrett Div Allied Chemical & Dye Corp 2112 Sylvan Av Toledo Ohio  
**BIRD & SON INC** 47 WILSON EAST WALPOLE MASS  
Borden Co Chemical Div 350 Madison Av New York 17 NY  
**BRUCE (E L) CO** 1648 THOMAS AV BOX 397 MEMPHIS TENN  
Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
Cambridge Tile Mfg Co Box 17 Cincinnati 5 Ohio  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO** 316 S WAYNE CINCINNATI 15 OHIO  
**CELOTEX CORP** 120 SO LASALLE CHICAGO 3 ILL  
Christy Co Inc 4464 Duncan St Louis 10 Mo  
Coated Abrasives Dept Adhesive Div Armour & Co 1355 W 31st Chicago 9 Ill  
Commercial Paste Co Buttles at Michigan Columbus 8 Ohio  
Congoleum-Nairn Inc 195 Belgrave Dr Kearny NJ  
Consumers Glue Co 1515 Hadley St Louis 6 Mo  
Dad & Lad Co New Lenox Ill  
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
Dennis Chemical Co 2701 Papin St Louis Mo  
Du Pont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del  
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY  
Flexrock Co 36th & Filbert Philadelphia 4 PA  
**FLINTKOTE CO** 30 ROCKEFELLER PLAZA NEW YORK 20 NY

Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
Gibbs Boardtile Corp of America 615 N Aberdeen Chicago 22 Ill  
Goodrich (B F) Co Flooring Div 36 Nichols Av Watertown 72 Mass

**HACHMEISTER INC BOX 357 PITTSBURGH 30 PA**

Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill

**HIGGINS INC BOX 8001 NEW ORLEANS LA INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN**

**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**

Lasting Prods Co Franklinton Rd Baltimore 23 Md  
Lehon Co 4425 S Oakley Chicago 9 Ill

Lino-Paste Co 3321 S Pulaski Rd Chicago Ill  
Madison Glue Corp 200 W 34th New York 1 NY

**MARSH WALL PRODS INC 268 MAIN DOVER OHIO**

**MASTIC TILE CORP OF AMERICA N MONTGOMERY NEWBURGH NY**

**MIDCONTINENT ADHESIVE CO 70 W PARK GROVE CITY OHIO**

Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio

Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis

Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn

**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**

Monsanto Chemical Co Plastics Div 100 Monsanto Av Springfield 2 Mass

**MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL**

**MORTELL (J W) CO 550 N HOBBIE KANKAKEE ILL**

**MOULTILE INC N MONTGOMERY ST NEWBURGH NY**

National Adhesives Div National Starch Prods Inc 268 Madison Av New York 16 NY

National Casein Sales 601 W 80th Chicago 20 Ill

Nicholson & Co 161 First Cambridge 42 Mass

Old American Roofing Mills Div of The Ruberoid Co 500 Fifth Av New York 36 NY

Pabeo Prods Inc 475 Brannan San Francisco Cal

Patent Cereals Co Bradford St Geneva NY

**PEORIA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**

Perkins Glue Co 652 Cannon Av Lansdale Pa

Pioneer Latex & Chemical Co Inc Lincoln Blvd Middlesex NJ

**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**

Placo Div Paisley Prods Inc 718 Washington Av N Minneapolis Minn

Plasteron Wall Board Co 196 Philadelphia Av Buffalo 7 NY

Plastic Prods Co 6473 Georgia Av Detroit 11 Mich

Plymold Co 2707 Tulare Av Burbank Cal

Plytex Corp 1731 Elston Av Chicago 22 Ill

Prestile Mfg Co 5550 W Ogden Av Chicago 50 Ill

Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill

**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**

Rohm & Haas Co Washington Sq Philadelphia 5 Pa

**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**

Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY

S & W Moulding Co 990 Parsons Columbus 6 Ohio

Sauereisen Cements Co 1045 N Canal Pittsburgh 15 Pa

Sealk Chemical Co 351 E 2nd Los Angeles Cal

Selck (Walter E) & Co 223 W Hubbard Chicago 10 Ill

Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio

Shinglстик 7600 Truman Rd Kansas City Mo

Sisk (R J) Co New London Conn

Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ

Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill

Sullivan Co 212 E Trigg Memphis Tenn

Superior Wall Prods Co 4401 N American Philadelphia 40 Pa

Tamm Industries Inc 228 N LaSalle Chicago 1 Ill

Tex-A-Panel Mfg Co 10848 Harry Hines Blvd Dallas Tex

Thomas Moulding Floor Co Inc 325 N Huron Chicago 10 Ill

Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill

**TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC**

Tylac Co Monticello Ill

**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

US Menzel Plywoods Inc Box 1612 Louisville 1 Ky

**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**

United States Rubber Co 1230 Avenue of the Americas New York 20 NY

Varlar Div United Wallpaper Inc 6134 Merchandise Mart Chicago 54 Ill

Wall-Tile Mfg Co 5550 W Ogden Cicero Ill

Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo

Webb Prods Co 216 S "G" N Bernardino Cal

Webster (W F) Cement Co 224 Thornhike Cambridge 41 Mass

Wesco Waterpapers Inc Maple St Matteson Ill

White Adhesives Co 2 Harrington Newtonville Mass

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

**WRIGHT MFG CO BOX 6367 HOUSTON 5 TEX**

**ADMIXTURES, CONCRETE AIR-ENTRAINING**

American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio

Autolene Lubricants Co 1331 W Evans Denver Colo

Carter-Waters Corp 2440 Pennway Kansas City 8 Mo

Dewey Almy Chemical Co Cambridge Mass

Master Builders Co 7016 Euclid Av Cleveland 4 Ohio

Servised Prods Corp 6051 W 65th Chicago 38 Ill

Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY

Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis

Stonhard Co 1306 Spring Garden Philadelphia 23 Pa

Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

**ADVERTISING BLOETIES & AIDS**

Advertisers Exchange Inc 381-4th New York 16 NY

Advertisers' Mfg Co Ripon Wis

Allied Cloth Specialties Inc Greenville Ohio

Alto Mfg Co 1647 W Wolfram Chicago 13 Ill

Berg (F O) Co Spokane Wash

Bertram Co 49 N Hutchinson Philadelphia Pa

Canton Glass Co Inc Marion Ind

Clyton Mfg Co 323 Pleasant East Waco Tex

Colonial Knife Co Inc 287 Oak Providence RI

Cyclone Seeder Co Urbana Ind

Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY

Economy Novelty & Printing Co 227 W 39th New York 18 NY

Garrison-Wagner Printing Co 2018 Washington St Louis Mo

Gerson (Louis M) 98 Deering Rd Mattapan 26 Mass

Grammes (L F) & Sons Inc 280 Union Allentown Pa

Holman Co Main at 6th Frisco Tex

Imperial Knife Associated Cos Inc 1776 Broadway New York 19 NY

Kees (FD) Mfg Co 700 Park Av Beatrice Neb

Kemper-Thomas Co Norwood Park Cincinnati 12 Ohio

Lawrence Engineering Service 98 Smith Peru Ind

**LUFKIN RULE CO 1730 HESS AV SAGINAW MICH**

M & H Display Alhambra Cal

**MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY**

May (JL) Co Inc 111 W 10th New York 11 NY

Meyer-Both Co 1935 S Michigan Av Chicago Ill

Murphy (Thomas D) Co Red Oak Iowa

National Plan Service Inc 1700 W Hubbard Chicago Ill

Newman (Rudolph) Lithographing Co 400 S Jefferson Chicago Ill

Parisian Novelty Co 3510 S Western Av Chicago 9 Ill

Renco 4372 W Orden Av Chicago 23 Ill

Robeson Cutlery Co Inc 3646 Case Perry N Y

Russell Harrington Cutlery Co 44 River Southbridge Mass

Shedd-Brown Mfg Co 311-321 5th Av S Minneapolis Minn

Standard Awning Co 83 Avon Hartford 5 Conn

**STANLEY WORKS 111 ELM AV NEW BRITAIN CONN**

**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

Voos Co New Haven Conn

Wagner Awning & Mfg Co Scranton & Barber Ays Cleveland 1 Ohio

Waterbury Cos Inc S Main Waterbury Conn

**ADVERTISING SERVICES**

Advertisers Exchange Inc 381 4th New York 16 NY

Bradham & Co Piedmont Bldg Greensboro N C

**DODGE (F W) CORP 119 W 40TH NEW YORK 18 NY**

Edwards (Vincent) & Co 342 Madison Av New York N Y

Ford Advertising Agency Box 428 Enid Okla

Hadley Lindsey Co 20 S Broadway Yonkers 2 N Y

Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal

Lil-Ad Features RFD 3 Santa Ana Cal

Local Trademarks Inc 87 Madison New York 16 N Y

Material Dealers Newspaper Mat Service Box 428 Enid Okla

Meyer-Both Co 1935 S Michigan Av Chicago Ill

Norm Advertising 79 Madison Av New York 16 N Y

Stevens Advertising Agency 317 Board of Trade Bldg Indianapolis Ind

**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

Wen Prods Inc 5806 Northwest Hwy Chicago 31 Ill

Worldwide Syndicate Construction Bldg Dallas 2 Tex

**AGGREGATES, LIGHTWEIGHT**

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill

American Perlite Corp Richmond Cal

American Silica Sand Co Ottawa Ill

Black (John H) Co 505 Delaware Buffalo 2 N Y

Carolina Perlite Co Box 158 Salisbury N C

Carter-Waters Corp 2440 Pennway Kansas City 8 Mo

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**

Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio

Grayheal (C R) & Sons Box 198 Roan Mountain Tenn

**GREAT LAKES CARRON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL**

Gregg Prods Co 646 Chestnut S W Grand Rapids 2 Mich

**HIGGINS INC BOX 8001 NEW ORLEANS LA**

Hydraulic-Press Brick Co 705 Olive St Louis Mo

**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**

Kelley Island Lime & Transport Co 1132 Lender Bldg Cleveland 14 Ohio

Maguire (Walter) Co Inc Peekskill NY

Masco Perlite Inc Houston 7 Tex

Massillon Refractories Co 1939 Prentice Massillon Ohio

McNear Brick Co San Rafael Cal

Midwestern Perlite Corp Oklahoma City Okla

Panaacelite Div Combined Metals Reduction Co 202 Felt Bldg Salt Lake City 1 Utah

Panaacelite Perlite Inc 311 S 5th Kansas City Kan

Perlite Mfg Co Arch St Ext Box 478 Carnegie Pa

Perolite Prods Sausalito Cal

Precast Slab & Tile Co 1367 S Kingshighway Blvd St Louis 10 Mo

Robinson Insulation Co Box 1419 Great Falls Mont

Schundler (F E) & Co Inc 504 Railroad Joliet Ill

Silbrico Corp 5901 W 66th Chicago 38 Ill

Sisco Vermiculite Mines Ltd 907 Dominion Square Rldg Montreal Que Canada

Sno-Lite Prods Co Box 58 Reno Nev

Standard Perlite Co 202 N Euclid Av Pasadena Cal

Sullivan Co 212 E Trigg Memphis 2 Tenn

Tamm Industries Inc 228 N LaSalle Chicago 1 Ill

Tennessee Prods & Chemical Corp 500 First American Nat'l Bank Bldg Nashville 3 Tenn

Texas Vermiculite Co 303 Brazos Austin Tex

**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

Vermiculite-Northwest Inc 2107 N 34th Seattle Wash

Vermiculite Prods Inc 515 Madison Kansas City Mo

Virginia Perlite Corp Box 687 Hopewell Va

Waylite Co 105 W Madison Chicago 2 Ill

Western Brick Co Danville Ill

**ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL**

**AGITATORS, PAINT**

Arlington Corp 868 Jenks Av St Paul 6 Minn

Day (J H) Co Harrison & Lyons Aves Cincinnati 22 Ohio

DeVilbiss Co 300 Phillips Toledo 1 Ohio

Devos & Reynolds Co Inc 787 First Av New York 17 NY

Fanner Mfg Co Brookside Park Cleveland 9 Ohio

Harbil Mfg Co 325 W Ohio Chicago 10 Ill

Holt Mfg Co 651-681 Twentieth Oakland 12 Cal

International Engineering Inc 1200 Bolander Av Dayton 1 Ohio

Miller Mfg Co 9425-45 Seymour Av Schiller Park Ill

Miracle Paint Rejuvenator Co 500 Robert St Paul 1 Minn

Pasche Airbrush Co 1909 W Diversey Pkwy Chicago 14 Ill

**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**

Tamm Industries Inc 228 N LaSalle Chicago 1 Ill

## ► AIR COMPRESSORS

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS  
Binks Mfg Co 3124 W Carroll Av Chicago Ill  
Brunner Mfg Co 1821 Broad Utica 1 NY  
C & H Electric Co 436 W Juneau Av Milwaukee 3 Wis  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Daves Compressor Co North Water & Cook Kent Ohio  
DeVilbiss Co 300 Phillips Toledo 1 Ohio  
Electric Sprayit Co 1415 Illinois Av Sheboygan Wis  
Essick Mfg Co 1950 S Santa Fe Av Los Angeles 21 Cal  
Gardner Denver Co 100 Williamson Quincy Ill  
George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla  
Ingersoll-Rand Co 11 Broadway New York 4 NY  
JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO  
Johnson (C S) Co Box 71 Champaign Ill  
Paasche Airbrush Co 1909 W Diversey Pkwy Chicago 14 Ill  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Saylor-Beall Mfg Co 401 Kibbie St Johns Mich  
United States Air Compressor Co 5300 Harvard Av Cleveland Ohio  
Worthington Corp S Second Plainfield NJ

## ► AIR CONDITIONERS

Acme Industries Inc 600 N Mechanic Jackson Mich  
Admiral Corp 3800 W Cortland Chicago 47 Ill  
AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO  
American Blower Corp Div American Radiator Standard Sanitary Corp Tireman Av at Roselawn Detroit 32 Mich  
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA  
Anchor Div Stratton & Terstege Co Inc Box 311 300 Culbertson Av New Albany Ind  
Anemostat C-rp of America 10 E 39th New York 16 NY  
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
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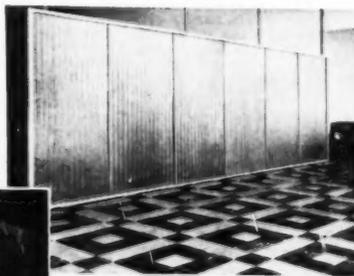
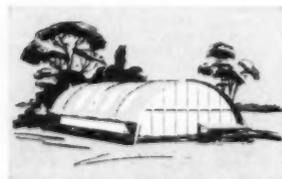
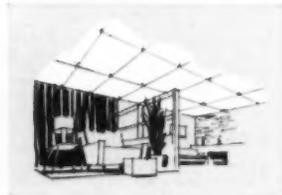
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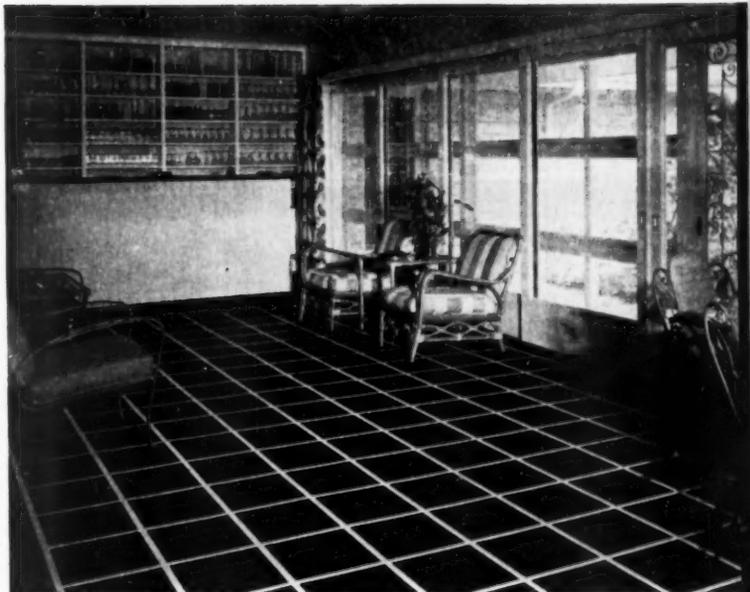
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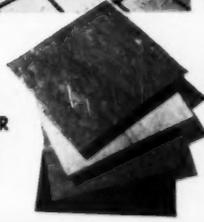
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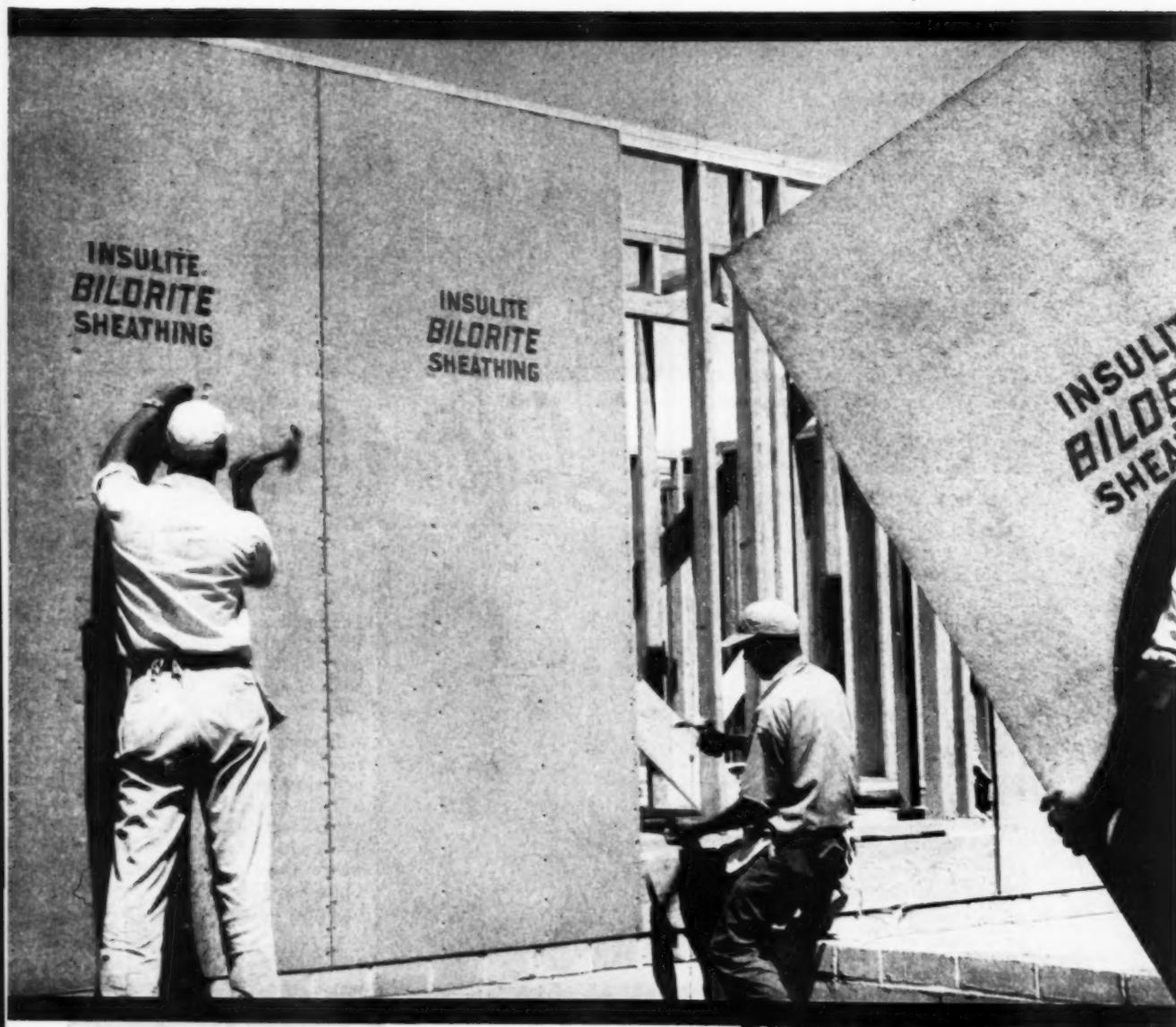
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# How New York save \$175 a home



\*Robert Kasin, left, and William Synek, builders of Shadowbrook Homes, Islip, N. Y., reduce costs \$175 per home with the Insulite products shown here. Try these ideas on your next job. Any one of them can help you build better . . . for less!



# builder-partners\* with Insulite!



# 1

**Shadowbrook Homes Saved \$150** per home with the Bildrite (left) and Shingle-Backer (below) combination. With Bildrite, one man can sheath 1,000 sq. ft. in 8 hours or less. Cuts application time as much as 43%. 4' Bildrite eliminates the need for corner-bracing and building paper. Since Bildrite is waterproofed throughout with asphalt, it can be stored outdoors, left exposed to the weather indefinitely.

# 2

**Shingle-Backer Cuts Application Time in Half.** Four-foot panels produce deep, modern shadow line. Practically eliminate waste. Can be used or stored anywhere in any weather because Shingle-Backer is waterproofed throughout with asphalt. Approved for application directly over Bildrite sheathing.



# 3

**Primed Graylite for Soffits and Porch Ceilings Saved \$25** per job on the Shadowbrook Homes project. Made of the same material as tough, weather-resistant Bildrite, Primed Graylite is primed at the factory for easy painting. Ends delamination problem. Available in 1/2" and 3/4" thicknesses, 4-foot widths, 6 to 12-foot lengths.

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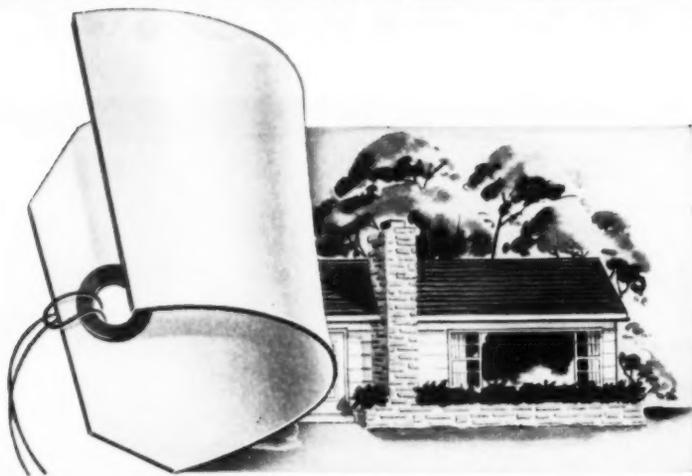
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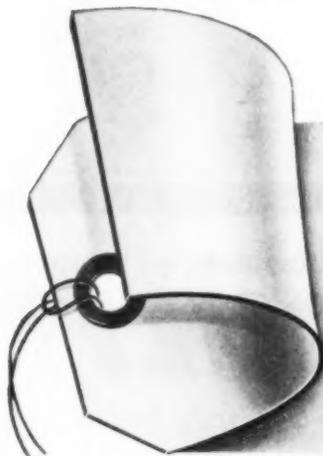
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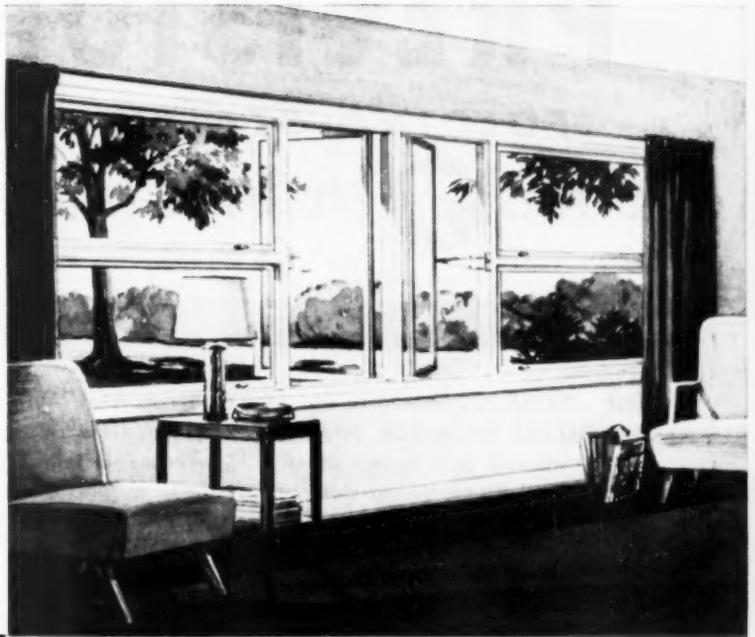
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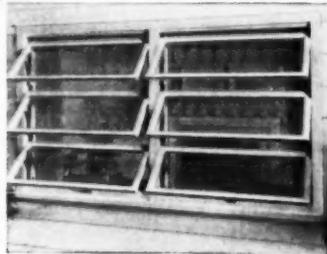
Architectural styles change—and modern window research must meet the demands for new and improved designs. For example, the Curtis Convertible Wood Window Unit, shown here, represents an entirely new concept in frame and sash construction. The individual units may be installed singly or in any desired combination of multiples—stacked in both width and height. Convertible Units may be used as right- or left-swing casements—awning windows—swing-in hopper-type sash and a thousand or more different window combinations that fit any wall construction and meet every budget.



◀ Curtis Silentite Casements offer all of the charm and beauty that only wood casements can provide, but without draft, air leakage, rattling or swinging. The Silentite Casement is trouble-proof! There is no protruding hardware—nothing to rust, rattle or get out of order. In summer Silentite will catch a breeze from every direction—cool, healthful ventilation, but no draft! And in winter, it will reduce by about 16% the heat loss that usually occurs with ordinary casements.



Modern, too, is this Curtis Silentite guarantee covering materials and workmanship—convincing proof of the extra value which is built into all Curtis Silentite windows.



◀ Silentite awning windows allow full ventilation or almost any variety of partially open positions of the individual sash. Sash control is simple—a single crank operates the entire unit. Operating hardware is completely concealed in window frame—sash is held firmly in any position.

The famous Silentite pre-fit double-hung window unit is designed with "floating" weather-strips for maximum weather-tightness. It offers finger-tip ease of operation throughout its life. It is a *modern* window in every sense of the word—made in several sash styles and in all commonly used sizes.



AB-4-54

Curtis Companies Service Bureau  
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I am interested in your Silentite Window line. Please send literature.

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# PRECISION

FOLDING STAIRWAYS

OFFERS **7** EXCLUSIVE FEATURES *Plus*

**5 YEAR**  
*written*  
**GUARANTEE**  
furnished with  
each unit

## THE MOST ECONOMICAL WAY OF PROVIDING ADEQUATE STORAGE SPACE!

You can add hundreds of feet of valuable attic storage space with the economical, maintenance-free Precision folding stairway. Hundreds of thousands of Precision stairways are now in use in homes in the United States, Canada and Alaska. Precision stairways are sold by more than 12,000 dealers.

**2 STANDARD SIZE 8'9" and 9'9"**. For ceiling heights 7'0" to 8'9" use 8'9". For ceiling heights 8'9" to 9'9" use 9'9". Figure from finished floor to finished ceiling. Not Floor to Floor. Frame is made to fit 26" by 54" opening in ceiling, also 30" by 54" at extra cost.

## HIGHEST QUALITY MATERIALS—

Constructed of select kiln dried lumber throughout. Brackets, rocker arms and hinges cast in our own foundry. Insulated panel supplied at no extra cost. All parts numbered and interchangeable.

**REQUIRES NO ATTIC SPACE—**Does not take up valuable storage space. Full height above attic floor is only 36 inches.

**SHIPPED IN ONE PACKAGE —** Packed complete in one heavy carton, assembled and ready for installation. Shipping weight 115 pounds.



## NEW HYDRAULIC SAFETY CHECKS

Prevents slamming of stairway on opening and closing; shuts stairway door tightly and eases stairway into open or shut position quietly and safely.

## LIFE-TIME ROLLER BEARINGS

Factory-packed, life-time roller bearings increase ease of operation of the Precision folding stairway to a point that makes operation practically effortless.

## ACTUATED BY COUNTERWEIGHTS

The Precision stairway is actuated by cleverly engineered counterweights which close the stairway tight every time. No springs to weaken with constant use, no adjustments are necessary.

## INSULATED DOOR PANEL

The door panel is insulated to keep out summer heat from the room below and to save fuel in winter by preventing loss of heat to the attic.

## RUGGED AND STRONG

All parts of the Precision folding stairway are secured by bolts and screws. The superior design assures long life plus dependable service under constant use.

## FULL WIDTH SAFETY TREADS

Composition safety treads on each step protect step and assure a safe footing. Safety treads also add to appearance of stairway.

## FITS ANY CEILING HEIGHT

Graduations on runners facilitate cutting off for different ceiling heights, insure a saving on both installation time and cost.

Accepted by **FHA** everywhere!

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See Pages 14-17

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AMERICAN BUILDER

Turn prospects  
into buyers with  
**Servel Wonderair**  
*All-Year® Air Conditioning*



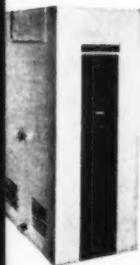
**Be ready for booming public demand  
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Offer cooling in summer, heating in  
winter with one compact unit!**

Home buyers are rapidly being conditioned to *expect* air conditioning in the modern home. Soon they will *demand* all-year climate control!

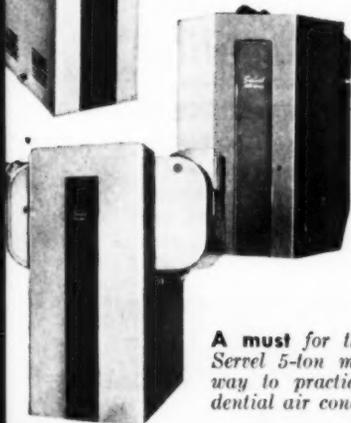
Take the lead in this important trend. Invite your customers to enjoy the benefits of Servel **Wonderair All-Year Air Conditioning**. A single unit cools and heats... dehumidifies or adds moisture... cleans the air... ventilates and circulates!

And because of Servel's *exclusive* absorption principle there are *no moving parts* in cooling or heating systems. The result: quiet, vibration-free operation and long life backed by a five-year factory warranty.

Servel **Wonderair All-Year Air Conditioning** is available in 2-, 3-, and 5-ton capacities. Cost is remarkably low, sales value extremely high! Send for details.



**Right for the small home!**  
Compact 2-ton model occupies only 2' x 4' of floor space. 72,000 Btu/hr. heating capacity.



**Popular 3-ton model** has capacity for a medium-size house. Costs little more than a "heat-only" system.

**A must for the luxury home!**  
Servel 5-ton model has led the way to practical all-year residential air conditioning.

**Servel**

the name to watch for great advances in  
**AIR CONDITIONING ✓ REFRIGERATION**

SERVEL, INC., Dept. AB-44, Evansville 20, Indiana

Please send me complete details on Servel Wonderair All-Year Air Conditioning.

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 Illinois Wire & Mfg Co Box 1396 Joliet Ill  
 Jeffrey Mfg Co 827 N 4th Columbus 16 Ohio  
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 Midwest Steel Prods Co Kansas City Mo  
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 Red Tiger Prods Inc 20 N Wacker Chicago  
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 Sts Richmond 5 Va  
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 Super Structures Inc 1015 S Jefferson Al-  
 bert Lea Minn

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Frick-Gallagher Mfg Co S Michigan Av  
 Wellston Ohio  
 Johnson Industries 2119 7th Blvd St Louis 4  
 Mo  
 Precision Equipment Co 3712 N Milwaukee  
 Chicago 41 Ill  
 Red Tiger Prods Inc 20 N Wacker Chicago  
 6 Ill  
 St Paul Foundry & Mfg Co 500 Como Av  
 St Paul 3 Minn

Stackbin Corp 1079 Main Pawtucket RI  
 Universal Equipment Co 3401 W Division Chi-  
 cago Ill

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Acrabore Inc Webster Mass  
 Clark (Robert H) Co Bruno Tools Div 9328  
 Santa Monica Blvd Beverly Hills Cal  
 Dura-Bilt Tool Co 60 North Av Box 216  
 Natick Mass  
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 Yates-American Machine Co 729 4th Beloit Wis

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 Rockford Ill  
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 Pugh (John T) Inc 31st & Ludlow Sts Phila-  
 delphia Pa  
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 Millers Falls Co Wells & Devon Sts Green-  
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 Misener Mfg Co Inc 202-8 Walton Syracuse  
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 Brenehan-Hartshorn Inc 2045 Reading Rd  
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 Central Venetian Blind Mfg Co 2829 N Na-  
 toma Chicago 34 Ill  
 Chicago Venetian Blind Co 2223 S Michigan  
 Chicago 8 Ill  
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**SYRACUSE 2 NY**  
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 National Venetian Blind Co 1770 N Siehel Los  
 Angeles 31 Cal  
 Rolscreen Co Pella Iowa  
 Universal Venetian Blind Co 215 S Harlem  
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 Veni-Plex Corp of America Rockville Conn  
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 Mo  
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 Av Minneapolis 13 Minn  
 Yardley Industries 138 Parsons Av Columbus  
 15 Ohio

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 Euret Magnesia Mfg Co Crawford & County  
 Line Rd Valley Forge Pa  
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 Columbia Protokotite Co Inc 2-100 Interstate  
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 Air Controls Inc 2310 Superior Av Cleve-  
 land 14 Ohio  
 American Foundry & Furnace Co 125 N  
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 Ohio  
 Sunbeam Air Conditioner Div American Ra-  
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 Ohio  
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 Av SE at 33rd Minneapolis 14 Minn  
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 cinnati 9 Ohio

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# PRODUCT NEWS from AMERICAN-Standard

*A review of products in the news and important features worth remembering*



## NEW AMERICAN-STANDARD POST-FORMED COUNTER TOPS

New American-Standard counter tops are a practical and glamorous feature for the modern kitchen. From integral back splash to no-drip water bead edge these counter tops form a continuous, unbroken surface that has no joints or crevices. They're made of Micarta, the plastic material which retains its beauty even after years of daily use, bonded to a sturdy plywood core. The non-directional scatterline design of the tops eliminates any pattern conflict in turning corners or in adding new tops at a later date. Available in Gray, Dark Green, Lime, Yellow, Red. Special new union strips, joint moulding strips and end caps are available as top quality finishing accessories.



## NEW GRAY BATHROOM FIXTURES

Beautiful American-Standard bathroom fixtures now are available in another distinctive color—Platinum Gray. Harmonizing perfectly with virtually any decorative scheme, this new color permits wider flexibility in bathroom planning. And Platinum Gray is one color nearly everyone can agree on; a bathroom featuring American-Standard fixtures in this smartly modern color will have outstanding customer appeal. In addition to the new Platinum Gray, you can choose from six other popular American-Standard colors and white. *All colors are true and permanent. They will not dull or fade.*

**For further information on American-Standard products see Sweet's Light Construction File.**

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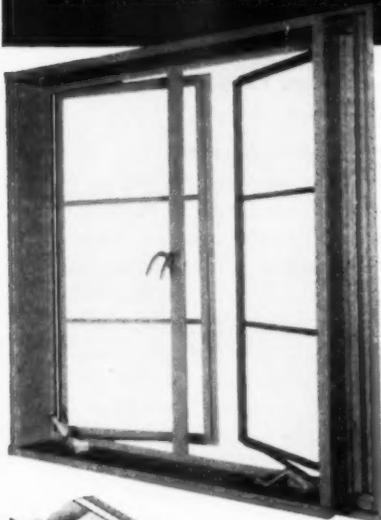
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STEEL WINDOWS HAVE THE STRENGTH AND RIGIDITY THAT NO OTHER WINDOW CAN MATCH



Hope's Combination Inside-Outside Metal Trim is installed as in the illustration below.

## RESIDENCE (Holford) CASEMENTS

ACTUAL SASH SIZES	1'-7 $\frac{1}{8}$ "	3'-1"	3'-1"	4'-5 $\frac{1}{8}$ "	5'-9 $\frac{3}{8}$ "	7'-1 $\frac{5}{8}$ "
2'-2"	1212	2212	2222	3222	4222	5222
3'-2 $\frac{3}{8}$ "	1313	2313	2323	3323	4323	5323
4'-2 $\frac{5}{8}$ "	1414	2414	2424	3424	4424	5424
4'-2 $\frac{5}{8}$ "	1413	2413	2423	3423	4423	5423
5'-3"	1514	2514	2524	3524	4524	5524

HOPE'S COMBINATION INSIDE-OUTSIDE METAL TRIM is easily and quickly installed with all standard sizes of Hope's Steel Casements. Trim fits into rough openings; no finished carpentry is required, either inside or out. Only a few minutes are needed for assembling at the warehouse or on the job.

HOPE'S STEEL CASEMENTS (standard sizes shown in above diagram) provide a variety of sizes and ventilator combinations that complement any type of architecture; readily fit any kind of construction. No other window can equal the strength and durability of steel.

## HOPE'S RANCH-TYPE WINDOWS

3'-2 $\frac{1}{2}$ "	6'-2 $\frac{7}{8}$ "	9'-3 $\frac{1}{4}$ "
2'-2 $\frac{1}{2}$ "	21RW	31RW
4'-2 $\frac{7}{8}$ "	22RW	32RW
6'-3 $\frac{1}{4}$ "	23RW	33RW
11RW		
12RW		
13RW		

HOPE'S RANCH-TYPE WINDOWS are equally effective in other styles of architecture and in other types of buildings. Narrow frames provide abundant light, yet are extremely strong. These steel windows derive their great strength and rigidity from Hope's famous



Lok'd Bar Joints at muntin intersections. Ventilator corners are solid-welded. Ventilation is 100% flexible. Awning type ventilators may be inserted in frames where desired. Any type of glazing may be used: Thermopane, Twinow, or single double-strength glass.

For Literature and Full Information, write

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Bethlehem Steel Corp 701 E Third Bethle-  
hem Pa  
Buffalo Bolt Co Div Buffalo-Eclipse Corp 101  
East Av North Tonawanda NY  
Chicago Expansion Bolt Co 1338 W Concord  
Chicago 12 Ill

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Sta A Dept AB Cincinnati 23 Ohio  
Decatur Iron & Steel Co 2nd Street W  
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Republic Steel Corp Republic Bldg Cleveland  
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Richmond Screw Anchor Co 816 Liberty Av  
Brooklyn 8 NY  
St Louis Screw & Bolt Co 6900 N Broadway  
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Star Expansion Bolt Co 147-149 Cedar New  
York 6 NY  
Sterling Bolt Co 363 W Erie Chicago Ill  
Stronghold Screw Prods 1883 W Winnemac  
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U S Expansion Bolt Co 25 State & PRR York  
Pa  
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## ▶ BOLTS, TOGGLE

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Chicago Expansion Bolt Co 1338 W Concord  
Pl Chicago 22 Ill  
Diamond Expansion Bolt Co Inc 500 North  
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Ill  
Lamson & Sessions Co 1971 W 85th Cleveland  
2 Ohio  
Paine Co Fullerton & Westgate Rd Addison  
Ill  
Sommer & Maca Glass Machinery Co 3600-08  
S Oakley Av Chicago 9 Ill  
Star Expansion Bolt Co 147-149 Cedar New  
York 6 NY  
United Screw & Bolt Corp Cleveland Div  
3590 W 58th Cleveland 2 Ohio  
U S Expansion Bolt Co State St & PRR York  
Pa

## ▶ BOLTS "U"

Atlas Bolt & Screw Co 1130 Ivanhoe Rd  
Cleveland 10 Ohio  
Buffalo Bolt Co Div Buffalo-Eclipse Corp 101  
East Av N Tonawanda NY  
Davis & Siehl Co 4032 Hamilton Av Box 78  
Sta A Dept AB Cincinnati 23 Ohio  
Engman Mfg Co 1317 Locust Des Moines 9 Ia  
Heckmann Bldg Prods Co 4018 W Lake Chi-  
cago 24 Ill  
Hohmann & Barnard Inc 204 E 33rd New  
York 16 NY  
Kees (F D) Mfg Co 700 Park Av Beatrice  
Neb  
Lamson & Sessions Co 1971 W 85th Cleve-  
land 2 Ohio  
Larson (Charles O) Co Avenue "G" & C&NW  
Ry Sterling Ill  
Republic Steel Corp Republic Bldg Cleveland  
1 Ohio  
Round Chain Cos Broadway & Chaincraft  
Rd Cleveland 5 Ohio  
St Louis Screw & Bolt Co 6900 N Broadway  
St Louis 15 Mo  
Sheffield Steel Corp Sheffield Sta Kansas City  
25 Mo  
Standard Turnbuckle Co Corry Pa  
Stronghold Screw Prods 1883 W Winnemac  
Av Chicago 40 Ill  
United Screw & Bolt Corp Cleveland Div 3590  
W 58th Cleveland 2 Ohio

## ▶ BOOKS, BUILDING

American Technical Society 58th & Drexel  
Ave Chicago 37 Ill  
Auel (Theodore) & Co 49 W 23rd New York  
NY  
**BOOK SVC DEPT AMERICAN BUILDER  
SIMMONS-BOARDMAN PUB CORP 30  
CHURCH NEW YORK 7 NY**  
Good Housekeeping 57th at 8th Av New York  
19 NY  
McGraw-Hill Book Co 330 W 42nd New  
York 18 NY  
Meredith Publishing Corp 1716 Locust Des  
Moines 3 Ia  
Popular Science Monthly 354 Fourth Av New  
York 10 NY

Reinhold Publishing Corp 330 W 42nd New York 36 NY  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
Wiley (John) & Sons Inc 410 Fourth Av New York 16 NY

### ▶ BOOKS, ESTIMATING

**BOOK SVC DEPT AMERICAN BUILDER SIMMONS-BOARDMAN PUB CORP 30 CHURCH NEW YORK 7 NY**  
National Plan Svc Inc 1700 W Hubbard Chicago 22 Ill  
Tamblin Systems 1420 Gilpin Denver 6 Colo

### ▶ BOOKS, HOUSE DESIGNS, PLANS

**BOOK SVC DEPT AMERICAN BUILDER SIMMONS-BOARDMAN PUB CORP 30 CHURCH NEW YORK 7 NY**  
HomOgraf Co 1171 E Eight-Mile Rd East Detroit Mich  
Reinhold Publishing Corp 330 W 42nd New York 36 NY  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ▶ BOOKS, LANDSCAPING

**SCOTT (O M) & SONS CO MARYSVILLE OHIO**

### ▶ BOOKS, PRICE

National Plan Svc 1700 W Hubbard Chicago 22 Ill

### ▶ BRACES, BIT & DRILLS, HAND

**FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN**  
Millers Falls Co Wells & Devon Sts Greenfield Mass  
North Bros Mfg Co 228 Lehigh Av Philadelphia 33 Pa  
Peck, Stow & Wilcox Co Mill St Southington Conn  
**STANLEY WKS 111 ELM ST NEW BRITAIN CONN**

### ▶ BRACKETS, CURTAIN

Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
Bay States Stamping Co 370 Chandler Worcester Mass  
Gould-Merseu Co Inc 35 W 44th New York NY  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY

### ▶ BRACKETS, HAND RAIL

Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
Braun (J G) Co 615 S Paulina Chicago 12 Ill  
Champion Hdwe Co 3300 Miller Geneva Ohio  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 16 OHIO**  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**

Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
Larson (Charles O) Co Avenue "G" & C&NW Ry Sterling Ill  
**LOCKWOOD HDWE MFG CO 1950 CLEGHORN FITCHBURG MASS**  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Penn Hdwe Co Spruce St Reading Pa  
Safe Padlock & Hdwe Co Second & Crystal Sts Lancaster Pa  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
Slaymaker Lock Co 115 SW End Av Lancaster Pa  
Standard Bronze Co 179 W 5th Bayonne 20 NJ  
Tennessee Fabricating Co 1490 Grimes Memphis Tenn

**▶ BRACKETS, ROOF**  
Adams Co Box 268 Dubuque Ia  
Ajax Building Bracket Co 1551 Rydal Mount Rd Cleveland Heights 18 Ohio  
Allen Steel Prods Inc 2941 East Ten-Mile Rd Hazel Park Mich  
American Ladder Co 5509 NW 7th Av Miami 38 Fla  
**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS 11 OHIO**  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
Belson Mfg Co East River Rd North Aurora Ill

Caster Mold & Machine Co 1171 Wooster Rd N Harborton Ohio  
**CURTIS COS INC 1200 S SECOND AV CLINTON IA**  
Flint (A W) Co 85 Lloyd New Haven 6 Conn  
Gardner Mfg Co 2740 Barstow Horizon Wis  
Holm's Mfg Co of Ohio 1340 Lakeshore Blvd Akron 1, Ohio  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Patton (N E) Co 303 Van Doren Champaign Ill  
Rugg Mfg Co Box 507 Greenfield Mass  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Tilley (John S) Ladders Co 12 Second Water-vliet NY  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IA**

**▶ BRACKETS, SAWHORSE**  
Allen Steel Prods Inc 2941 East Ten-Mile Rd Hazel Park Mich  
American Ladder Co 5509 NW 7th Av Miami 38 Fla  
Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill  
**DALTON MFG CO 20 S CENTRAL AV CLAYTON ST LOUIS 5 MO**  
**GRAND HAVEN STAMPED PRODS CO GRAND HAVEN MICH**  
Larson (Charles O) Co Avenue "G" & C&NW Ry Sterling Ill  
M & M Wire Clamp Co 975-17th Av Minneapolis 14 Minn  
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa  
Pannell Displays Inc 1131 W Sheridan Chicago Ill  
Thomas Prods Co 8490 Lyndon Av Detroit 21 Mich  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IA**

**▶ BRACKETS, SHELF**  
Adams Co Box 268 Dubuque Ia  
Air Control Prods Inc Glade St at Larch Coopersville Mich  
Autyre Co Oakville Conn  
Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill  
Champion Hdwe Co 3300 Miller St Geneva Ohio  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID OF NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
Fawcett Mfg Div Falls Stamping & Welding Co 1703 First Cuyahoga Falls Ohio  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill  
Genesco Tools 1830 N Kostner Av Chicago 39 Ill  
Griffin Mfg Co Cherry & Huron Sts Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
Heller (W C) Co 1050 Bryant Montpelier Ohio  
Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 1 Mich  
Locke Mfg Co Ohio St Lodi Ohio  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

**▶ BRACKETS, STUD**  
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IA**

**▶ BRACKETS, WALL**  
**BUTLER (B B) MFG CO INC 3150 RANDOLPH BELLWOOD ILL**  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 16 OHIO**  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
Flint (A W) Co 85 Lloyd New Haven 6 Conn  
Heller (W C) & Co 1050 Bryant Montpelier Ohio  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Pass & Seymour Inc 50 Boyd Av Syracuse NY  
Renco 4372 W Ogden Chicago 23 Ill  
Superior Plastics Inc 410-430 N Oakley Bl Chicago 12 Ill  
Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

**▶ BRASS & COPPER, SHAPES**  
**AMERICAN BRASS CO 414 MEADOW WA TERBURY 20 CONN**  
American Sanitary Mfg Co Abingdon Ill  
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
**CHASE BRASS & COPPER CO INC 23 GRAND WATERBURY 20 CONN**  
**GICHNER INC 1900 KENDALL ST NW WASHINGTON 2 DC**  
Hussey (C G) Co 2860 Second Av Pittsburgh 19 Pa  
Revere Copper & Brass Inc Michigan Div 5851 W Jefferson Detroit 9 Mich  
Seovill Mfg Co 100 Mill Waterville 91 Conn  
Sherman (H B) Mfg Co 22 Barney Battl Creek Mich  
Western Cartridge Co Div Olin Industrie East Alton Ill

**▶ BRICK, ACID-PROOF**  
Acme Brick Co Box 425 Fort Worth Tex  
Alliance Clay Prods Co 1500 S Mahoning Box 746 Alliance Ohio  
Atlas Mineral Prods Co Mertztown Pa  
Claycraft Co Box 866 Columbus 16 Ohio  
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
Hanley Co 101 Park Av New York NY  
Krafftle Co Niles Cal  
Redfield Brick & Tile Co Redfield Ia  
Sawresen Cements Co 1045 N Canal Pittsburgh 15 Pa  
Stark Brick Co Canton 1 Ohio  
Summitville Face Brick Co Summitville Ohio  
Texas Brick Co Box 510 Brownwood Tex  
United Materials & Richmond Brick Co Lt Point Richmond Cal  
United States Stoneware Co 5300 E Tallmadge Av Akron 9 Ohio  
Washington Brick & Lime Co Box 2198 Spokane 6 Wash  
Wisconsin Face Brick & Supply Corp 448 N Green Bay Av Milwaukee Wis

**▶ BRICK, COMMON**  
Abilene Brick Co Box 1017 Abilene Tex  
Acme Brick Co Box 425 Fort Worth Tex  
Acme Shale Brick Co 1153 Main Buffalo 9 NY  
Ada Brick Co Ada Okla  
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Ia  
Alabama Clay Prods Co 23rd N at 4th Av Birmingham 3 Ala  
Alliance Clay Prods Co 1500 S Mahoning Alliance Ohio  
Alton Brick Co Alton Ill  
Alwinc Brick Co New Oxford Pa  
Ashe Brick Co Van Wyck SC  
Baltimore Brick Co 3200 E Madison Baltimore Md  
Beacon Brick Co 619 Beacon Bldg Wichita 2 Kan  
Binghamton Brick Co Inc Binghamton NY  
Black Hills Clay Prods Co Box 730 Belle Fourche SD  
Bowerston Shale Co Bowerston Ohio  
Bridgewater Brick Co Spring St East Bridgewater Mass  
Briseh Brick Co 228 N LaSalle Chicago Ill  
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Modern Iron Wks 540 S 5th Quincy Ill  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Swett (A L) Iron Wks 151 Glenwood Av Medina NY

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Flint (A W) Co 85 Lloyd New Haven 6 Conn  
Heller (W C) & Co 1050 Bryant Montpelier Ohio  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Pass & Seymour Inc 50 Boyd Av Syracuse NY  
Renco 4372 W Ogden Chicago 23 Ill  
Superior Plastics Inc 410-430 N Oakley Bl Chicago 12 Ill  
Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

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Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
**CHASE BRASS & COPPER CO INC 23 GRAND WATERBURY 20 CONN**  
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Hussey (C G) Co 2860 Second Av Pittsburgh 19 Pa  
Revere Copper & Brass Inc Michigan Div 5851 W Jefferson Detroit 9 Mich  
Seovill Mfg Co 100 Mill Waterville 91 Conn  
Sherman (H B) Mfg Co 22 Barney Battl Creek Mich  
Western Cartridge Co Div Olin Industrie East Alton Ill

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Claycraft Co Box 866 Columbus 16 Ohio  
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
Hanley Co 101 Park Av New York NY  
Krafftle Co Niles Cal  
Redfield Brick & Tile Co Redfield Ia  
Sawresen Cements Co 1045 N Canal Pittsburgh 15 Pa  
Stark Brick Co Canton 1 Ohio  
Summitville Face Brick Co Summitville Ohio  
Texas Brick Co Box 510 Brownwood Tex  
United Materials & Richmond Brick Co Lt Point Richmond Cal  
United States Stoneware Co 5300 E Tallmadge Av Akron 9 Ohio  
Washington Brick & Lime Co Box 2198 Spokane 6 Wash  
Wisconsin Face Brick & Supply Corp 448 N Green Bay Av Milwaukee Wis

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Acme Brick Co Box 425 Fort Worth Tex  
Acme Shale Brick Co 1153 Main Buffalo 9 NY  
Ada Brick Co Ada Okla  
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Ia  
Alabama Clay Prods Co 23rd N at 4th Av Birmingham 3 Ala  
Alliance Clay Prods Co 1500 S Mahoning Alliance Ohio  
Alton Brick Co Alton Ill  
Alwinc Brick Co New Oxford Pa  
Ashe Brick Co Van Wyck SC  
Baltimore Brick Co 3200 E Madison Baltimore Md  
Beacon Brick Co 619 Beacon Bldg Wichita 2 Kan  
Binghamton Brick Co Inc Binghamton NY  
Black Hills Clay Prods Co Box 730 Belle Fourche SD  
Bowerston Shale Co Bowerston Ohio  
Bridgewater Brick Co Spring St East Bridgewater Mass  
Briseh Brick Co 228 N LaSalle Chicago Ill  
Broad River Brick Co Route 1 Gaffney SC  
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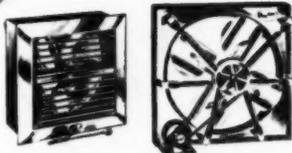
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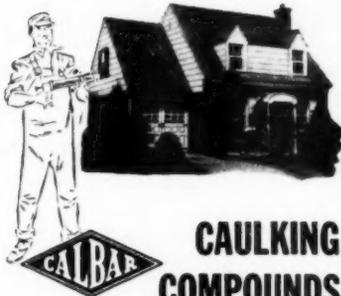
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Columbia Brick Wks 1320 SE Water Av Portland 14 Ore  
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Denamore Brick Co 162 Hanover Lebanon NH  
Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo  
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Elgin-Butler Brick Co Austin Tex  
El Paso Brick Co El Paso Tex  
Evans Brick Co Uhrichville Ohio  
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Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Ia  
Kingsland Clay Prods Co Lyndhurst NJ  
Las Vegas Brick Co Las Vegas NM  
Lewiston Brick & Tile Co Lewiston Mont  
Lovell Clay Prods Co Lovell Wyo  
Mason City Brick & Tile Co Mason City Ia  
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Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
Minneapolis Builders Supply Co 927 2nd Av South Minneapolis 2 Minn  
Moorehead Brick & Tile Co 5th Av & 11th St Joseph Mo  
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Patton Clay Mfg Co Foot of Terra Cotta Av Patton Pa  
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Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
Rockford Brick & Tile Co Rockford Ia  
Sacramento Brick Co Sacramento Cal  
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Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo  
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**Evanston, Illinois**

**Introducing...**  
**the most compact and versatile central summer cooling unit now on the market!**



**simple and easy to install as...**



**Basic unit for addition to any forced-air warm air furnace.**  
 (only 43" high)



**Basic unit with blower package added—converts any warm-air gravity furnace into a forced-air winter-heating and summer-cooling system.**  
 (only 60" high)



**Add space cap to basic unit with blower and you have a compact summer cooling unit for commercial use in offices, stores, restaurants, etc.**  
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Williamson horizontal space cooler requires no floor space. Install in attic or crawl space. 24" high, 22" wide, 35" deep.

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*Manufacturers of the industry's most complete line of warm air furnaces, pipe, fittings and ducts for home and commercial use.*

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 Beacon Brick Co 619 Beacon Bldg Wichita 2 Kans  
 Binghamton Brick Co Inc Binghamton NY  
 Birmingham Building Prods Corp 3260 Fayette Av Birmingham 8 Ala  
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 Bowerston Shale Co Bowerston Ohio  
 Broad River Brick Co Route 1 Gaffney SC  
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 Chicago Fire Brick Co 1461 N Elston Av Chicago 22 Ill  
 Clay City Pipe Co Uhrichsville Ohio  
 Clayercraft Co Box 866 Columbus 16 Ohio  
 Colonial Clay Prods Co New Brighton Pa  
 Columbia Brick Wks 1320 SE Water Av Portland 14 Ore  
 Conco Building Prods Inc Box 111 Mendota Ill  
 Concord Brick Co Concord NH  
 Consumers Co 79 W Monroe Chicago 3 Ill  
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 Densmore Brick Co 162 Hanover Lebanon NH  
 Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver 1 Colo  
 Donnelly Brick Co Box 1107 New Britain Conn  
 Drury Brick Co Essex Junction Vt  
 Elgin-Butler Brick Co Austin Tex  
 El Paso Brick Co El Paso Tex  
 Evans Brick Co Uhrichsville Ohio  
 Evans Pipe Co 23 Newport Av Uhrichsville Ohio  
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 Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
 Fraser Brick Co 2501 Cedar Springs Dallas Texas  
 Frederick Brick Wks Frederick Md  
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 General Clay Prods Co Huntington Bank Bldg Columbus 15 Ohio  
 General Shale Prods Corp Johnson City Tenn  
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 Guignard Brick Wks Columbia SC  
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 Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Ia  
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 Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
 Fraser Brick Co 2501 Cedar Springs Dallas Texas  
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 Hanley Co 101 Park Av New York NY  
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 Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Ia  
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 Hanley Co 101 Park Av New York NY  
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Double-hung windows in 35 stock sizes, 8 styles. Picture windows in 3 standard widths, all heights. Easy to handle and install. Fit all types of construction, save time and labor, give lower "installed costs." Completely preassembled.



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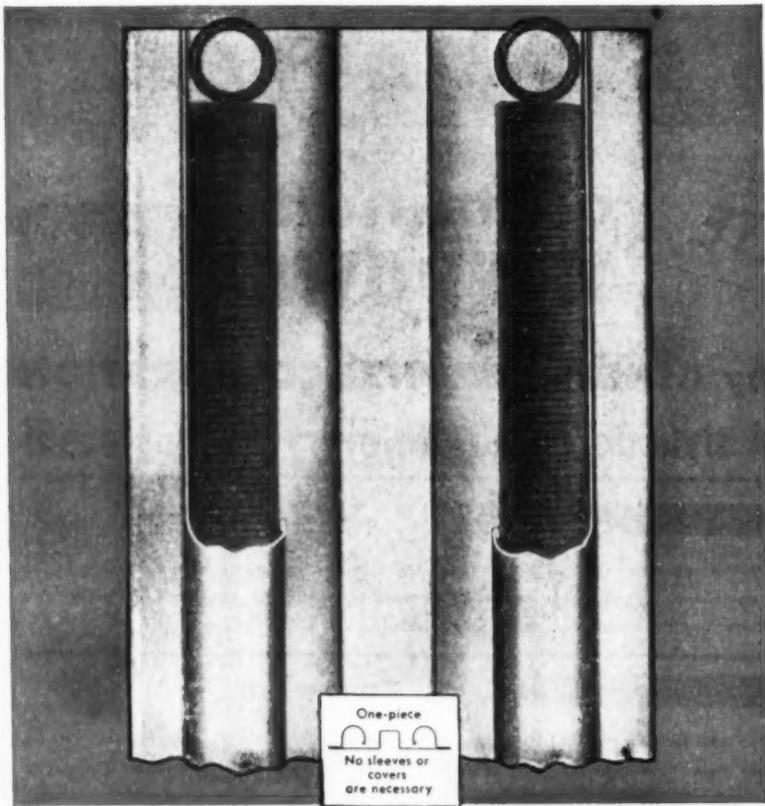
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**GENERAL BRONZE CORPORATION**

ALWINTITE DIVISION

Stewart Avenue

Garden City, N. Y.

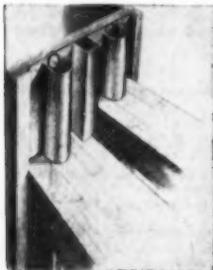


## ALLWEATHER BALANCE STRIP WITH SILENT COIL SPRINGS

ALLWEATHER Balance Strips No. 490, 290 and 90 are now available with FLOCKED coiled springs.

FLOCK . . . an old process, as a result of research and development is now applied to the surface of sash balance coil springs. The basic purpose of FLOCKING balance springs is the same as that for automobile seats and bed springs . . . to eliminate noise. FLOCK makes possible silent opening and closing of windows equipped with ALLWEATHER Balance Strips.

Adjustability is Built-In—Balance tube with semi-cantilever action insures weatherstrip contact in all kinds of weather. The base of section is always in close contact with jamb insuring stability. FLOCKED springs are concealed by a functional part of the strip itself.



Tests made by the University of Minnesota Institute of Technology Testing laboratory in cooperation with the Weatherstrip Research Institute, show that doublehung wood windows, when weatherstripped show an infiltration ratio 6 TIMES LESS than non-weatherstripped windows.



## ALLMETAL Weatherstrip Company

2243 North Knox Avenue, Chicago 39, Illinois

Name "ALLMETAL" Reg. U. S. Patent Office

Please send information and prices

Allweather Balance Strip  Thresholds and Weatherstrip for Doors  Metal Trim for Asbestos Siding

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Zone \_\_\_\_\_ State \_\_\_\_\_

Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
Pacific Clay Prods 306 W Avenue 26 Los Angeles 31 Cal  
Peoria Brick & Tile Co Box 515 Peoria Ill  
Redfield Brick & Tile Co Redfield Ia  
Reno Press Brick Co Box 116 Reno Nev  
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
Sheridan Press Brick & Tile Co 711 Carrington Sheridan Wyo  
Standard Clay Mfg Co New Brighton Pa  
Streator Brick Co Div Hydraulic-Press Brick Co 321 E Main Streator Ill  
United Brick & Tile Co 903 McGee Kansas City 42 Mo  
United Materials & Richmond Brick Co Ltd Point Richmond Cal  
Washington Brick & Lime Co Box 2198 Spokane 6 Wash  
Western Brick Co Danville Ill  
Western Clay Mfg Co Helena Mont  
Whitacre-Greer Fireproofing Co Waynesburg Ohio  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis  
Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln 8 Neb

### ► BRICK, PAVING

Acme Brick Co Box 425 Fort Worth Tex  
Alliance Clay Prods Co 1500 S Mahoning Box 746 Alliance Ohio  
Brookhaven Pressed Brick & Mfg Co Brookhaven Miss  
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
Glen-Gery Shale Brick Corp Box 182 Wyoming Pa  
Hocking Valley Brick Co 150 E Broad Columbus 15 Ohio  
Metropolitan Brick Inc 1017 Renkert Bldg Canton 2 Ohio  
Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
Summitville Face Brick Co Summitville Ohio  
United Materials & Richmond Brick Co Ltd Point Richmond Cal  
Washington Brick & Lime Co Box 2198 Spokane 6 Wash  
Western Brick & Supply Co Omaha Neb

### ► BRICK, SCR

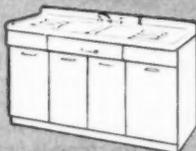
Acme Shale Brick Co 153 Main Buffalo 9 NY  
Adel Clay Prods Co 1118 Mulberry Des Moines 9 Ia  
Black Hills Clay Prods Co Box 730 Belle Fourche SD  
Clayeraft Co Box 866 Columbus 16 Ohio  
Glen-Gery Shale Brick Corp Box 182 Wyoming Pa  
Kalo Brick & Tile Co 1230 1st Avenue S Fort Dodge Ia  
Peoria Brick & Tile Co Box 515 Peoria Ill  
Streator Brick Co Div Hydraulic-Press Brick Co 321 E Main Streator Ill  
United Brick & Tile Co 903 McGee Kansas City 42 Mo  
United Materials & Richmond Brick Co Ltd Point Richmond Cal  
Western Brick Co Danville Ill

### ► BRICK, VENEER, SYNTHETIC

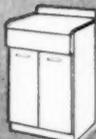
American Cement Prods 15496 Livernois Detroit Mich  
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
Kraftite Co Niles Cal

### ► BRIDGING, STEEL

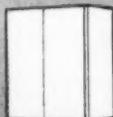
Allen Steel Prods Inc 2941 East Ten-Mile Rd Hazel Park Mich  
Bethlehem Steel Co 701 E Third South Bethlehem Pa  
Cleveland Steel Specialty Co 3771 E 91 Cleveland 5 Ohio  
Conver Steel & Wire Co 621 E 132nd New York 54 NY  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Dravo Corp Dravo Bldg Fifth & Liberty Ays Pittsburgh 22 Pa  
Flash Bridge Co US 31 & 32nd Holland Mich  
Glover Mfg & Sales Co 2491 Manchester Rd Akron Ohio  
Harris Inc 200 E Long Columbus Ohio  
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill  
Hohmann & Barnard Inc 204 E 33rd New York 16 NY  
International Steel Co 1321 Edgar Evansville 7 Ind  
JUNIOR-PRO PRODS CO 3206 MORGAN-FORD RD ST LOUIS 16 MO  
Lanebro Mfg Co Inc 110 Main Poughkeepsie NY  
MacQueen Service 312 Savings & Trust Bldg Butler Pa  
Met-Cro Specialties Co Inc 56 Boerum Brooklyn 6 NY  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo



Finest heavy-gauge steel cabinet sinks with "Contour Styling." Several styles, 42", 54", and 66" wide!



Base cabinets in one-door, two-door and all-drawer styles. Sizes from 15" to 36" wide!



Wall cabinets in 18" and 30" heights. Single-door and double-door styles 15" to 36" wide in 30" heights . . . 18" to 36" wide in 18" heights.



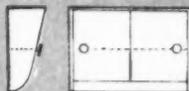
Lazy Susan corner cabinets, wall and base models . . . also broom closet, 24" x 84" x 13"



Food Waste Disposer with continuous feed, lightweight, quiet. Simple, one-man installation!



Edge-grain maple counter tops, 15" or 18" wide with 3" integral back-splash. Also vinyl tops in wide range of colors, 15" to 36"!



Condiment cabinet with sliding doors mounts under wall cabinets. Chrome knobs . . . 24" and 30" widths!

## This Year **MURRAY** offers builders more than ever before!

In style, construction, unique design, Murray is your wise choice for top kitchen appeal. By actual comparison Murray offers *heavier* steel construction . . . bigger, *roomier* drawers . . . *more* usable space on drainboards . . . genuine *brass* drawer runners . . . *integral* base!

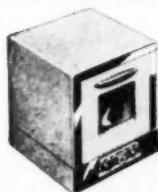
And nowhere can you match the variety of appeals this expanded Murray line offers . . . with an entirely new idea in built-in ranges in color!

See your Murray distributor or write—

# MURRAY

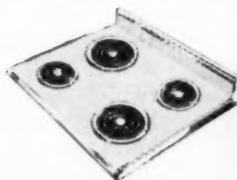
**THE MURRAY CORPORATION OF AMERICA**

Home Appliance Division—Scranton, Pa.



### NEW! IN "SUNSET" COLORS!

Built-in oven in white enamel, with door in stainless steel, or choice of four colors and white porcelain enamel. It's a new way to bring color to kitchen! Fits regular Murray base cabinets at drawer-base or drawer-top level.



### NEW! WITH "CONTOUR STYLING!"

Smart cooking tops (24" and 30" width) . . . an original Murray idea! Offered in "Sunset" colors to match oven and styled to match contours of regular cabinet tops! Replaces regular cabinet top. Easy installation. ("Drop-in" flat-rim models [24" x 21" and 32" x 21"] also available.)

# Greatest improvement

# Coleman<sup>®</sup> VIT-ROCK



**not this...**

**DIRTY RED WATER  
RUST INSIDE TANK**



**but this...**

**CLEAN HOT WATER  
NO RUST EVER**

**HERE'S  
THE  
SECRET**

Flexible rock lining  
"rolls with the punches"  
to prevent cracking  
or chipping. It means  
longer heater life and  
clean, trouble-free hot  
water service.

## WHY IT'S A SMART MOVE TO INSTALL COLEMAN VIT-ROCK WATER HEATERS

Now that home buyers are shopping around, it's just plain common sense not to overlook a single plus you can offer them. That's why it pays to install Coleman Vit-Rock Water Heaters. They're definite assets, because they deliver what your prospects want most in a water heater. That's an always plentiful supply of rust-free hot water for every home use and trouble-free hot water regardless of local water conditions. And you can guarantee this

—because they're backed by a 10-year warranty!

**Six models:** In the Coleman Vit-Rock Water Heater line, you have a range of six models to meet your requirements. It's the outstanding line with the revolutionary Vit-Rock lining\* that gives longer lasting life plus other exclusive Coleman-engineered features. Ask your distributor or send the coupon at the right for full information. The Coleman Company, Inc., Wichita, Kansas.



Sheldon Coleman, President of The Coleman Company, Inc., says:

### "IT'S ENGINEERED TO EXCEL ANY GAS WATER HEATER ON THE MARKET"

"We've designed the Coleman Vit-Rock Water Heater to be better! We've compared it with other gas heaters, and we know it will outperform and outlast them. What's more, its advantages are what home buyers want most—clean, clear, rust-free hot water and plenty of it. Its 10-year warranty is a big selling point, too. You'll find it a real sales asset to install Coleman Vit-Rock Water Heaters."

Also made under the name SHELDON VIT-ROCK.  
Coleman Water Heaters also available with galvanized tanks.

# in water heater history...

# WATER HEATER **10 yr. Warranty** †

GAS LP-GAS

**VIT-ROCK COSTS NO MORE!**



1



**It's brand-new.** Known by only a few in the trade, the Vit-Rock process is the most revolutionary development in years. It gives the heater advantages found in no other gas unit.

2



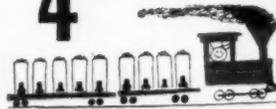
**Vit-Rock coating** is applied to tank walls by centrifugal force. So great is the force that the surface is *completely* covered; not even a pinhole is left exposed. Vit-Rock cannot be "eaten away" by hard water.

3



**Special attention** is paid to details. Flue connections at top and outer lip of tank bottom are specially coated so no metal is exposed to water.

4



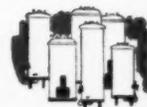
**"Safer" to ship** and install. Coleman's Vit-Rock lining stands up better because it's tough. This same quality reduces possibility of breakage or damage during installation.

5



**The water heater that "breathes."** The flexible Vit-Rock lining "gives" with fluctuating pressures; doesn't crack as brittle glass sometimes does. Protects better, lasts longer.

6



**Six models** to choose from, each a streamlined beauty with gleaming white plastic enamel outside finish. Fiberglas insulated. Temperature controls readily accessible. 100% safety Shut-Off Valve available on all models for all gases.

Vit-Rock Water Heaters are sold by leading plumbing and heating dealers and gas utilities.

Comfort costs so little  
with a

**Coleman**®

EQUIPMENT AGA APPROVED

†Full unconditional 5-year tank warranty plus 5 additional years pro rata

\*Manufactured under the Burwell process

**THE COLEMAN COMPANY, INC.**  
Dept. 851-AB, Wichita 1, Kansas

Please send me complete information on the revolutionary new Coleman Vit-Rock Gas Water Heaters.

Name \_\_\_\_\_

Address \_\_\_\_\_

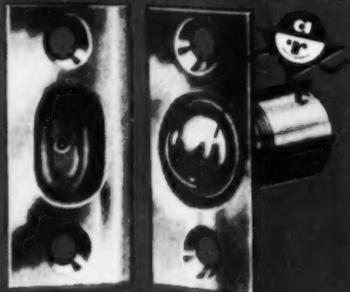
City \_\_\_\_\_ State \_\_\_\_\_



HERE'S A  
BETTER LATCH  
WITH  
BALL BEARING  
ACTION

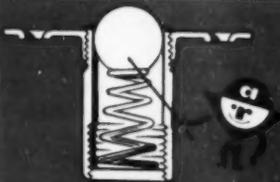
THE  
ADAMS-RITE  
BALL  
LATCH

FOR DOORS, WARDROBES, AND CABINETS



The ball in this Adams-Rite latch — unlike plungers or friction devices — continues to give smooth, positive action year after year. Simply can't jam and will never become rough through usage. In addition the latch is adjustable and is available in 2 sizes.

Ask your wholesaler or write the factory.



Threaded barrel permits adjustment for binding or shrinkage of door. Larger size latch also has spring pressure adjustment for controlling action.



SPECIALIZED LOCKS AND BUILDERS' HARDWARE

Ohio Can & Crown Co 16th & Harsh  
Massillon Ohio  
Republic Steel Corp Republic Bldg Cleveland  
1 Ohio  
Sta-Tite Inc 4020 N Port Washington Av Mil-  
waukee 12 Wis  
Weatherguard Service Inc 564 Jackson Av  
New York 55 NY

#### ► BRUSHES, INDUSTRIAL

Bentzinger Bros 317 N Third St Louis 2 Mo  
Devoe & Reynolds Co Inc Princeton Ind  
Empire Brushes Inc 200 William Port  
Chester NY  
GOLDBLATT TOOL CO 1910 WALNUT  
KANSAS CITY 8 MO  
Illinois Duster & Brush Co 1944 Webster Av  
Chicago 14 Ill  
Michigan Brush Mfg Co 7411 Central Detroit  
10 Mich  
Milwaukee Brush Mfg Co 2200-40 N 30th  
Milwaukee Wis  
National Brush Co 101 Illinois Av Aurora  
Ill  
Newark Brush Co 255 Michigan Av Kenil-  
worth NJ  
Osborn Mfg Co 5401 Hamilton Av Cleveland  
14 Ohio  
Pittsburgh Plate Glass Co-Brush Div 3221  
Frederick Av Dept D-3 Baltimore 29 Md  
Rubberset Co 56 Ferry St Newark 5 NJ

#### ► BRUSHES, PAINTERS'

American Brush Mfg Co 3121 NE Sandy Blvd  
Portland Ore  
Baker Brush Co Inc Grand, corner Greene  
St New York 13 NY  
Bentzinger Bros 317 N Third St Louis 2 Mo  
Berry Bros Inc 211 Leib Detroit 7 Mich  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
Empire Brushes Inc 200 William Port Ches-  
ter NY  
Felton Sibley & Co Inc 136 N 4th Philadel-  
phia 6 Pa  
Glidden Co Berea Rd & Madison Cleveland  
2 Ohio  
Gordon Chemical Co Inc 1100 Hickory Kan-  
sas City 7 Mo  
Hanlon & Goodman Co Belleville NJ  
Hanna Paint Mfg Co 95 W Long Columbus  
15 Okla  
Jacobus' (A G) Sons Inc Verona NJ  
Kwiksand Inc 529 Merchants Rd Rochester  
9 NY  
Lowe Bros 436 E 3rd Dayton 2 Ohio  
Maendler Brush Mfg Co Inc 138 E 9th St  
Paul 1 Minn  
Markwell Mfg Co 200 Hudson New York  
13 NY  
Michigan Brush Mfg Co 7411 Central Detroit  
10 Mich  
National Brush Co 101 Illinois Av Aurora  
Ill  
National Lead Co 111 Broadway New York  
6 NY  
Osborn Mfg Co 5401 Hamilton Av Cleveland  
14 Ohio  
Parker (Ira) & Sons Co Oshkosh Wis  
Pittsburgh Plate Glass Co Brush Div 3221  
Frederick Av Baltimore 29 Md  
Plasti-Kote Inc 425 Lakeside Av NW Cleve-  
land 13 Ohio  
Pollock Brush Co Easton Pa  
Purdy Brush Co 6525 N Lombard Portland  
3 Ore  
Pusher (J C) & Sons 700 Harrison Boston  
Mass  
Rubberset Co 56 Perry St Newark 5 NJ  
Sherwin-Williams Co 101 Prospect Av Cleve-  
land 1 Ohio  
United Brush Mfrs 116 Wooster New York  
NY  
Whiting-Adams Co Inc 700 Harrison Av Bos-  
ton 18 Mass  
Wooster Brush Co 600 Madison Av Wooster  
Ohio

#### ► BRUSHES, PAPERHANGERS'

Baker Brush Co Inc Grand, Corner Greene  
St New York 13 NY  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
Empire Brushes Inc 200 William Port Ches-  
ter NY  
Maendler Brush Mfg Co Inc 138 E 9th St  
Paul Minn  
National Brush Co 101 Illinois Av Aurora  
Ill  
Rubberset Co 56 Ferry Newark 5 NJ  
Wooster Brush Co 600 Madison Av Wooster  
Ohio

#### ► BRUSHES, ROOFING

Abesto Mfg Corp 131 Wabash Michigan City  
Ind  
Badger Corrugating Co 1801-39 West Av S  
La Crosse Wis  
Bentzinger Bros 317 N Third St Louis 2 Mo  
Chicago Brush Co 2153 N Damen Av Chicago  
47 Ill  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY

Empire Brushes Inc 200 William Port Ches-  
ter NY  
Hanlon & Goodman Co Belleville NJ  
Hanna Paint Mfg Co 95 W Long Columbus  
15 Okla  
Milwaukee Brush Mfg Co 2200-40 N 30th  
Milwaukee Wis  
Osborn Mfg Co 5401 Hamilton Av Cleveland  
14 Ohio  
Pittsburgh Plate Glass Co Brush Div 3221  
Frederick Av Baltimore 29 Md  
Purdy Brush Co 6525 N Lombard Portland  
3 Ore

#### ► BRUSHES, WINDOW

American Brush Mfg Co 3121 NE Sandy  
Blvd Portland Ore  
Bentzinger Bros 317 N Third St Louis 2 Mo  
Chicago Brush Co 2153 N Damen Av Chicago  
47 Ill  
Empire Brushes Inc 200 William Port Ches-  
ter NY  
Maendler Brush Mfg Co Inc 138 E 9th St  
Paul 1 Minn  
Michigan Brush Mfg Co 7411 Central Detroit  
10 Mich  
Osborn Mfg Co 5401 Hamilton Av Cleveland  
14 Ohio  
Pittsburgh Plate Glass Co Brush Div 3221  
Frederick Av Baltimore 29 Md

#### ► BUCKETS, CLAMHELL

Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 30 Pa  
BUCKRUS-ERIE CO SOUTH MILWAUKEE  
Wis  
Erie Steel Construction Co Giest & N P RR  
Erie Pa  
Haiss (George) Mfg Co Inc Div Pettibone  
Mulliken Corp 350 Fifth Av New York  
1 NY  
Jeffrey Mfg Co 826 N 4th Columbus 16 Ohio  
Johnson (C S) Co Box 71 Champaign Ill  
Kwik-Mix Co Port Washington Wis  
Link-Belt Co 307 N Michigan Av Chicago 1  
Ill  
Orton Crane & Shovel Co 608 S Dearborn  
Chicago 5 Ill  
Owen Bucket Co 6001 Breakwater Av Cleve-  
land 2 Ohio  
Pettibone Mulliken Corp 4700 W Division  
Chicago 51 Ill  
Schield Bantam Co 221 Park Waverly Iowa  
Silent Hoist & Crane Co 875 63rd Brook-  
lyn NY

#### ► BUCKETS, CONCRETE

Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 30 Pa  
Erie Steel Construction Co Giest & N P RR  
Erie Pa  
Heltzel Steel Form & Iron Co Warren Ohio  
Johnson (C S) Co Box 71 Champaign Ill  
Kwik-Mix Co Port Washington Wis  
Wheeling Corrugating Co Wheeling W Va

#### ► BUILDINGS, METAL

American Bridge Div United States Steel  
Corp 525 William Penn Pl Pittsburgh 30  
Pa  
Armed Drainage & Metal Prods Inc 1939  
Armed Av Middletown Ohio  
Butler Mfg Co 7400 E 13th Kansas City 26  
Mo  
General Implement Corp Terminal Tower  
Cleveland 13 Ohio  
Great Lakes Steel Corp Stran-Steel Div  
Ecorse 29 Mich  
International Steel Co 1321 Edgar Evansville  
7 Ind  
Luria Engineering Corp 500 Fifth Av New  
York 36 NY  
Macomber Inc 1925 Tenth Canton Ohio  
MacQueen Service 312 Savings & Trust Bldg  
Butler Pa  
MESKER (GEORGE L) STEEL CORP 400  
N W FIRST EVANSVILLE 8 IND  
Quaker State Metals Co Manheim Pike at  
City Bypass Lancaster Pa  
STEELCRAFT MFG CO 9617 BLUE ASH RD  
ROSSMOYNE OHIO  
Stran-Steel Div Great Lakes Steel Corp  
Ecorse 29 Mich  
TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1050 ALBERT YOUNGSTOWN 1  
OHIO  
United States Fabricators Inc 333 Gasche  
Wooster Ohio  
Wagner Iron Wks 1905 S 1st Milwaukee 1  
Wis

#### ► BULLDOZERS

AMERICAN TRACTOR CORP TERRA DR  
CHURUBUSCO IND  
ARPS CORP NEW HOLSTEIN WIS  
Caterpillar Tractor Co 600 W Washington  
East Peoria 8 Ill  
Drott Mfg Corp 3841 W Wisconsin Av Mil-  
waukee 8 Wis  
Heil Co 3000 W Montana Milwaukee 2 Wis

# WARE

## Aluminum Windows

will add Extra Appeal and Value  
to your homes—and save you  
time and grief on the job!

*Competitively priced—yet known from  
coast-to-coast for fixed quality*

NEW  
WARE-TITE



GLASS  
JALOUSIES  
AND DOORS

Perfected weatherstripping—floating stainless steel  
weather cushion at jams, durable plastic at  
head & sill • New Sure-Lock glass spring  
clip • Space saver—KD packing  
• Over 100° opening • Adjust-  
able widths in field  
• Rugged extruded  
frame 3 1/8"

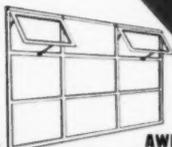
PROJECTED—  
ARCHITECTURAL



AND  
INTERMEDIATE

Sealed weathering—special weatherstripping—Double  
glazing without adapters—Inside or outside glazing  
• Rugged monumental construction—Adjustable  
friction shoes with pressure spring fully  
enclosed—Reinforced corners at pivot  
points • In Standard AWMA  
sizes—special sizes  
on request

ECON-O-WALL



AWNING

9 Standard windows—unlimited combinations  
ECW Nos. 1110, \*11 • 3'-1 15 16" x 2'-1 15 16"  
ECW Nos. 1210, 1211, \*12 • 3'-1 15 16" x 4'-2 3/4"  
ECW Nos. 1310, 1311, 1312, \*13  
3'-1 15 16" x 6'-3 9 16"  
\*11, 12 and 13 Fixed Windows  
Highly weatherproof—  
seals tight—Under  
screen operator  
Positive lock

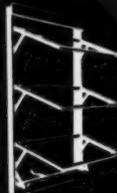
ECON-O-WARE



AWNING

For residential & commercial use • Extra Strength for  
superior performance • Center sill operation pro-  
vides balanced actuating force—Crank operates  
over stool—no crank problem • Gears  
sealed in oil • Locks tight without  
accessories—double contact  
weathering • In Standard  
and Modular sizes

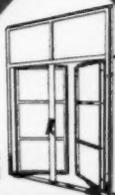
INTERMEDIATE



AWNING  
WINDOW

America's economy awning window • Functional—  
Practical— Trouble Free— Under-screen operator—  
Positive Locking— All-weather awning protec-  
tion • Sturdy flash-welded corners—  
caseless steel buildings— Seals tight  
with leverage— 12 stock oper-  
ating sizes— 12 stock  
Picture Window &  
Fixed sizes

RESIDENTIAL  
CASEMENTS



COMPARE:  
DESIGN—  
DIMENSIONS

Deeper sections 1 3/32" • Wider faces 31/32"  
For strength 3 16" ventilator web • Wide double  
contact weathering surfaces • Lacquered per  
FHA specs • PICTURE WINDOWS—  
FIXED • BOTTOM VENTILATORS  
• BULLSEYE • SUNBURST  
67 Standard and  
Modular sizes

**REGIONAL WAREHOUSING**  
assures prompt delivery.  
Most cities are overnight from  
Ware distribution points in Atlanta,  
Chicago, Houston, and Newark!

*Builders! Get All the profit-building facts.  
Write Dept. AB-4 today. (Also, a few protected  
territories available to reputable dealers.  
Inquiries invited.)*

# Aluminum WARE Windows

3700 N. W. 25th ST., MIAMI, FLORIDA

*Storm sash interchangeable with screens  
—quick, easy!*

Hough (Frank G) Co 811 Sunnyside Av  
 Libertyville Ill  
 International Harvester Co 180 N Michigan  
 Av Chicago 1 Ill  
 LeTourneau-Westinghouse Co 2301 N Adams  
 Peoria Ill  
 Mixermobile Mfra 8027 NE Killingsworth  
 Portland 2 Ore  
**OLIVER CORP 400 W MADISON CHICAGO  
 ILL**  
 Ryerson (Joseph T) & Son 2558 W 16th Chi-  
 cago 8 Ill  
 Wood (Gar) Industries Inc Michigan Blvd  
 Wayne Mich

► **BURNERS, GAS**

**AIRTEMP DIV CHRYSLER CORP 1610  
 WEBSTER DAYTON 1 OHIO**  
**ALDRICH CO WYOMING ILL**  
**AMERICAN RADIATOR & STANDARD  
 SANITARY CORP BESSEMER BLDG  
 PITTSBURGH 30 PA**  
 Anchor Div Stratton & Terstegge Co Inc  
 Box 311 300 Culbertson Av New Albany Ind  
 Armstrong Furnace Co 851 W 3rd Av  
 Columbus Ohio  
 Barber Gas Burner Co 3704 Superior Av  
 Cleveland 14 Ohio  
 Bard Mfg Co Bryan Ohio  
 Berger Furnace Mfg Co 5920 Centre Av  
 Pittsbourgh 6 Pa  
**BRYANT HEATER DIV AFFILIATED GAS  
 EQUIPMENT INC 17825 ST CLAIR AV  
 CLEVELAND 10 OHIO**  
 Century Engineering Corp 401 3rd S E Cedar  
 Rapids Iowa  
 Cleveland Steel Prods Co Toridheet Div 15801  
 Brookpark Rd Cleveland 11 Ohio  
 Conco Engineering Wks Div Conkey (HD)  
 Co 1940 Thomas Mendota Ill  
**CRANE CO 836 S MICHIGAN AV CHICAGO  
 5 ILL**  
**DELCO APPLIANCE DIV GENERAL MO-  
 TORS CORP LYELL & WHITNEY STS  
 ROCHESTER NY**  
 Florence Stove Co School St Gardner Mass  
 Front Rank Mfg Co Div of Liberty Foundry  
 Co 2500 Ohio Av St Louis 4 Mo  
 General Automatic Prods Corp 2300 Sinclair  
 Lane Baltimore 13 Md  
**GENERAL CHEF 4536 E DUNHAM LOS  
 ANGELES 23 CAL**  
 Harvey-Whipple Inc 55 Emery Springfield  
 Mass  
 Hauck Mfg Co 124-136 10th Brooklyn 15 NY  
 Heil Co 3000 W Montana Milwaukee 2 Wis  
 Henry Furnace Co Medina Ohio

Holland Furnace Co Holland Mich  
**INGERSOLL PRODS DIV BORG-WARNER  
 CORP KALAMAZOO MICH**  
 International Mfg Co 2249 S Delaware Den-  
 ver 19 Colo  
 International Oil Burner Co 3800 Park Av  
 St Louis 10 Mo  
 Iron Fireman Co 3170 W 106th Cleveland 11  
 Ohio  
**JACKSON & CHURCH CO 321 N Hamilton  
 SAGINAW MICH**  
 Ko-Z-Aire Inc 401 W Coolbaugh Red Oaks  
 Iowa  
 Lennox Furnace Co 200 S 12th Av Marshall-  
 town Iowa  
**LITTLE (H C) BURNER CO BOX 60 SAN  
 RAFAEL CAL**  
**MAJESTIC CO HALL ST HUNTINGTON  
 IND**  
 Mueller Climatroc Corp 2005 W Oklahoma  
 Milwaukee 15 Wis  
 National Airoil Burner Co 1284 E Sedgley  
 Av Philadelphia 34 Pa  
 National Radiator Co 223 Central Av Johns-  
 town Pa  
**NIAGARA FURNACE DIV FOREST CITY  
 FOUNDRIES CO 2500 W 27TH CLEVE-  
 LAND 13 OHIO**  
 Norge Heat Div Borg-Warner Corp 346 E  
 South Kalamazoo Mich  
 Norman Prods Co 1150 Chesapeake Colum-  
 bus 12 Ohio  
 Penn Boiler & Burner Mfg Co Fruitville  
 Rd Lancaster Pa  
 Queen Stove Wks 505 Front Albert Lea Minn  
 Ray Oil Burner Co 1301 San Jose Av San  
 Francisco 12 Cal  
**ROBERTS GORDON APPLIANCE CORP 44  
 CENTRAL AV BUFFALO 6 NY**  
 Rybolt Heater Co 615 Miller Ashland Ohio  
 Sunbeam Air Conditioner Div American  
 Radiator & Standard Sanitary Corp Ely-  
 ria Ohio  
**SURFACE COMBUSTION CORP 2375 DORR  
 TOLEDO 1 OHIO**  
 Thatcher Furnace Co Center St Garwood NJ  
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 KEN-DETROIT AXLE CO 209 E WASH-  
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 cinnati 9 Ohio  
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► **BURNERS, OIL**

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 ensack NJ  
**AIRTEMP DIV CHRYSLER CORP 1610  
 WEBSTER DAYTON 1 OHIO**  
**ALDRICH CO WYOMING ILL**  
**AMERICAN RADIATOR & STANDARD  
 SANITARY CORP BESSEMER BLDG  
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 Anchor Div Stratton & Terstegge Co Box  
 311 300 Culbertson Av New Albany Ind  
 Armstrong Furnace Co 851 W 3rd Av  
 Columbus Ohio  
 Automatic Burner Corp 1823 W Carroll Av  
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 La Crosse Wis  
 Bard Mfg Co Bryan Ohio  
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 Century Engineering Corp 401 Third SE  
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 Fluid Heat Div Anchor Post Prods Inc 6500  
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 Front Rank Mfg Co Div of Liberty Foundry  
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**GENERAL ELECTRIC CO AIR CONDITIO-  
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 General Utilities Corp 1520 N Broad Phila-  
 delphia Pa  
 Gerotor May Corp Maryland & Oliver Sts  
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 West Springfield Mass  
 Hart Heat Div Avery Farm Machy Co 2006  
 S Washington Peoria Ill  
 Harvey-Whipple Inc 55 Emery Springfield  
 Mass

Your homes quickly change from



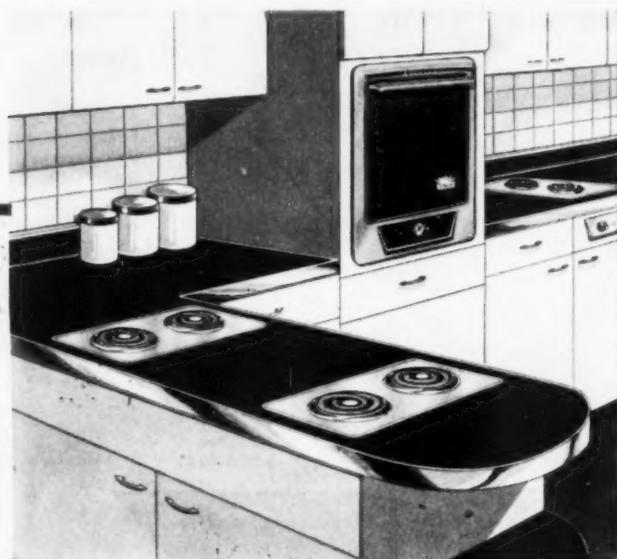
when equipped with the

**Thor built-in  
 electric range**

You know how strongly the attractiveness of the modern kitchen can influence the sale of a home. And you know how unusual, practical kitchen designs can sell remodeling jobs.

For compelling attention, there's nothing like modern kitchens designed around the flexible new Thor Built-in Electric Range. Women rave about the way the built-in oven is installed at eye-level height to save bending and stooping. They love the way top-surface units are installed in standard counter-tops — right where they save the most steps. And women really go for all the advanced modern cooking features of this trend-starting new range.

For complete information on how the new Thor Built-in Electric Range and other perfectly matching new Thor appliances can help you sell more new homes and more kitchen remodeling work, please mail coupon now.



**BUILDER-CONTRACTOR DIVISION  
 Leason Steel Products, Inc., Dept. AB4  
 Subsidiary of Thor Corporation  
 2115 South 34th Avenue, Chicago 30, Illinois**

I'd like to see your deal — no obligation, of course.

Name .....

Firm .....

Address .....

City ..... Zone ..... State .....

**THOR CORPORATION • Chicago 50, Illinois**

There's nothing like the new



# DEXTER

"Single Bore"

SCREEN AND COMBINATION  
DOOR LOCK SET



NO. 1100 LOCK SET

Low in cost—  
installs easily!

Installs in minutes!

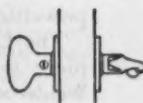
You bore only one  $\frac{1}{4}$ " hole to install the Dexter "Single Bore." This means hours saved in door installations.



Dexter's "Single Bore" screen and combination door lock set is famous Dexter quality through and through . . . exterior parts solid brass . . . interior parts *steel*, no die castings . . . locks safely, securely from inside at the touch of a fingertip . . . lock fits doors from  $\frac{5}{8}$ " to  $1\frac{3}{8}$ " thick . . . no adjustment necessary . . . ideal for use with door closer . . . costs less and is Dexter *Lifetime* Guaranteed.

Easy to plane door edge!

Because "Single Bore" does not have a protruding latch bolt, nothing interferes with planing edge of door after installation. Again, costly time is saved.



## DEXTER LOCK COMPANY

GRAND RAPIDS • MICHIGAN  
A SUBSIDIARY OF NATIONAL BRASS COMPANY

In Canada: Dexter Lock Canada Ltd., Guelph, Ontario  
In Mexico: Dexter Locks, Plazo Elegante, S. A. de C. V., Monterrey, Nuevo Leon

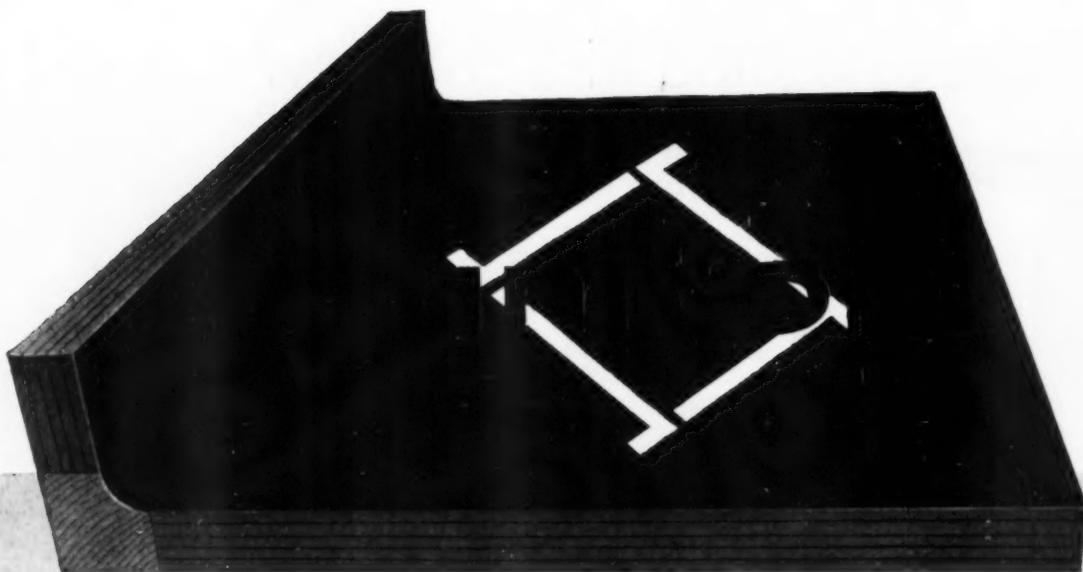
MANUFACTURERS OF AMERICA'S ORIGINAL TUBULAR LOCKS

"SOFT TOUCH"  
yielding strike!

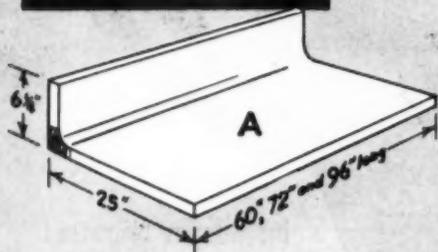
The Dexter "Soft Touch" yielding strike of the "Single Bore" requires no mortising, mounts on surface of door jamb. Metal lever yields when door closes, locks securely.



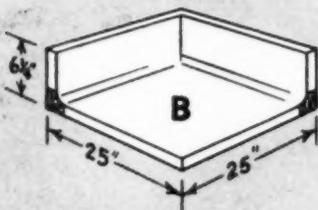
STRIKE FOR  
NO. 1100



## SPECIFICATIONS

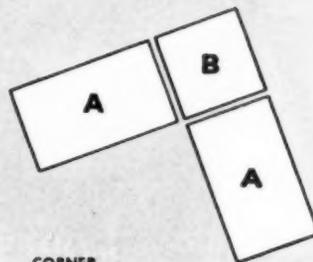


STANDARD UNITOPS



CORNER SECTION

For right or left-hand use. Both edges are factory-trimmed for precision joining.



CORNER SECTION AND STANDARD LENGTHS

View shows standard lengths butted to corner section.

This convenient new type of counter top is one of the most significant kitchen developments in the history of modern home building. The combined top and backsplash in one unbroken piece offers new ease of installation for you and a powerful selling point for use with your prospects.

The Unitop is a beautifully constructed one-piece top of  $\frac{1}{16}$ " Micarta® mounted on a  $\frac{3}{4}$ " Weldwood® Plywood. There are no joints or molding of any kind to break the sweep of the smooth and appealing Micarta surface. Made in three standard lengths plus an interchangeable left or right-hand corner unit, Micarta Unitops make it simple and economical to provide for practically any installation—whether straight-line, L shaped, or U shaped. Standard Unitops and corner sections are available in stock in Micarta Mardi Gras light gray, yellow, red,

green and blue; yellow, red, and green linen; gray, yellow, and red mother-of-pearl.

All ends will have a factory edge, accurately machined and protected to assure a tight joint. Cutouts for sinks can be sawed and molding applied on the job or finished through a local fabricator.

### Standard Unitops

Length	Deck Width	Backsplash Height
60"	25"	6 $\frac{1}{4}$ "
72"	25"	6 $\frac{1}{4}$ "
96"	25"	6 $\frac{1}{4}$ "

### Corner Section

25"	25"	6 $\frac{1}{4}$ "
-----	-----	-------------------

Ask your lumber dealer today about Unitop, or call your nearest United States Plywood Corporation representative. For further information you may also fill out the coupon below.

# Build better kitchens... faster with the NEW MICARTA UNITOP!

## INSTALLATION INSTRUCTIONS

### CUTTING OUT FOR SINK

A. Mark off where bowl is to be placed in the counter top. Hold sink ring firmly in position and outline ring with pencil using outside of lower flange as a guide. (Be sure to allow at least 2" of top space beyond the cutout so that there will be room to apply fastening hardware.)

B. Drill a hole inside cutout large enough to accommodate a keyhole saw. Cut to the outside of the line, and keep saw in vertical position when making cut.

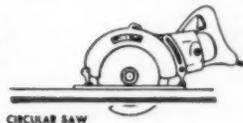
C. Try sink ring in cutout, rasping out excess wood.

(Note: Although keyhole saw is adequate to do the job, reciprocating-type saw can be used.)

### SAWING AND TRIMMING

Work the Micarta surface with proper care to avoid scratches. If trimming is necessary, cut with handsaw. Use handsaw at low angle, cutting on down stroke with Micarta face up.

(Note: A portable circular saw can be used for straight cut. Place Micarta surface down when using portable circular saw.)

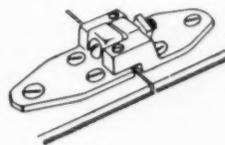


### JOINING UNITOP SECTIONS

A. To join sections, use factory trimmed edges at butt joints.

B. Apply U. S. P. joint fastener as shown in sketch. (You will note that joint fastener has two small setscrews which can be adjusted to obtain a perfect level surface at the joint.)

C. The U. S. P. joint fastener is attached to the back surface of the panel, and therefore if joint occurs at the edge of a base cabinet it will be necessary to notch out the top rail of the cabinet in order to allow the counter top to set flush on the base cabinet.



### INSTALLING MOLDINGS

Use hack saw for straight cuts on molding; smooth burrs with fine tooth file.

For corner miters, use a metal mitering tool such as the "Metalmitre". Install stainless steel molding using calking compound under molding where it meets Micarta surface. Nail molding to plywood from back. Solder molding at corner joints and use metal "snap-on" caps to cover end of Unitop at cove.

### SECURING FINISHED TOP

Install sink ring and sink, calk under sink ring where it meets Micarta surface. Install Unitop on cabinet using screws from underside. See your Unitop dealer for further instructions on other types of panel joints, moldings, etc.

J-06565

Westinghouse  
micarta®



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largest plywood organization in the world  
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UNITED STATES PLYWOOD CORPORATION  
55 West 44th Street, New York 36, N. Y.

Please send full information on your Micarta  
Unitop Plan.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

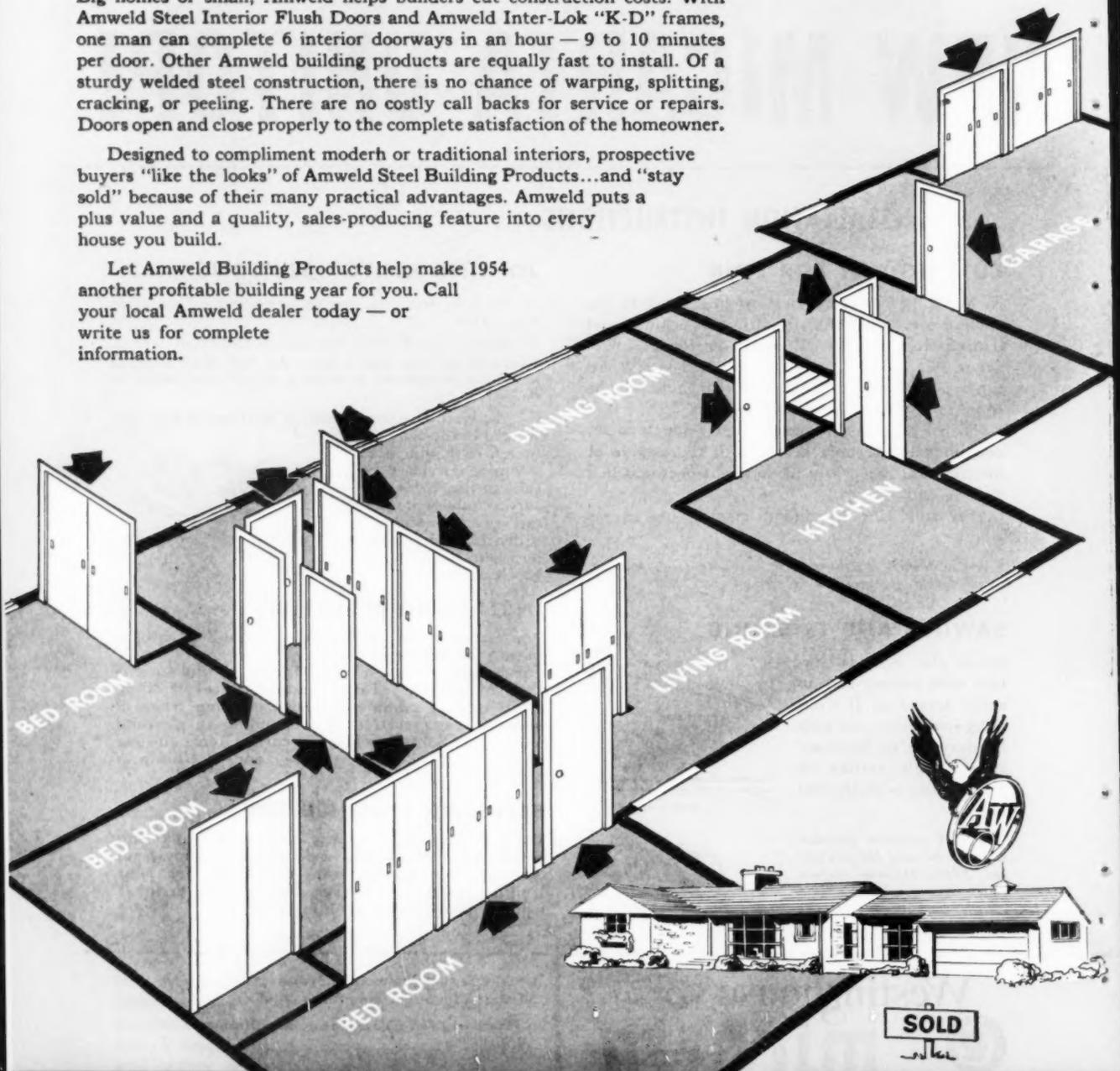
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# LOOK WHERE AMWELD CAN SAVE YOU MONEY

Big homes or small, Amweld helps builders cut construction costs. With Amweld Steel Interior Flush Doors and Amweld Inter-Lok "K-D" frames, one man can complete 6 interior doorways in an hour — 9 to 10 minutes per door. Other Amweld building products are equally fast to install. Of a sturdy welded steel construction, there is no chance of warping, splitting, cracking, or peeling. There are no costly call backs for service or repairs. Doors open and close properly to the complete satisfaction of the homeowner.

Designed to compliment modern or traditional interiors, prospective buyers "like the looks" of Amweld Steel Building Products...and "stay sold" because of their many practical advantages. Amweld puts a plus value and a quality, sales-producing feature into every house you build.

Let Amweld Building Products help make 1954 another profitable building year for you. Call your local Amweld dealer today — or write us for complete information.



## AMWELD BUILDING PRODUCTS DIVISION

THE AMERICAN WELDING AND MANUFACTURING COMPANY

310 DIETZ ROAD • WARREN, OHIO

## AMWELD® STEEL INTERIOR FLUSH DOORS



- HANDSOME FLUSH DESIGN
- PRIME COATED—READY TO PAINT
- QUICK AND EASY TO INSTALL

Both 1 3/8" and 1 3/4" doors available in standard heights and widths. Can be used in plaster, stud, or masonry walls. For extra fire protection, can be furnished with Underwriters "B" label.

## AMWELD® STEEL INTER-LOK "K-D" FRAMES



Inter-Lok frames for 1 3/8" are shipped knocked-down. Frame locks together to form neat, mitered corners. Designed for use with Amweld 1 3/8" Flush Doors, these frames can also be used with wood doors. Available in all standard sizes to match Amweld Flush Doors. Can be furnished as assembled unit if required.

For 1 3/4" Flush Doors, Amweld offers an assembled unit only.

## AMWELD® SLIDE-AWAY POCKET DOOR and FRAME UNIT



Use the Slide-Away in hallways or other cramped locations. Ideal for kitchens and bathrooms. Adapter kit converts standard 1 3/8" Amweld Flush Door into pocket-type disappearing door. Can be equipped for use with wood doors. Choice of latch sets or fingerpulls. Available for 2'6" and 2'8" widths.

## AMWELD® STEEL "K-D" SLIDING CLOSET DOOR UNITS



- Saves 6 to 9 feet of door swing area per closet.
- Makes entire closet interior easily accessible.
- Easy-to-install—all hardware snaps in place.
- Choice of prime finish or factory applied natural birch grain finish.

Sizes available—Openings—3', 4', 5' and 6'. Height—6'9 1/2".

## AMWELD® KING SIZE "K-D" Sliding Closet Door Units



8'0", floor-to-ceiling units. Ideal for "wardrobe" walls in bedrooms. Eliminates need for building partial wall between top of closet and ceiling. Provides extra storage space above clothes rod for suitcases, hats, etc. Construction identical to regular Amweld "K-D" Sliding Closet Door Units.

Sizes available (prime finish only)—Openings—4', 5', and 6'. Height—8'.

## AMWELD® ASSEMBLED SLIDING CLOSET DOOR UNITS



Amweld Sliding Closet Units also furnished with assembled steel frame, welded at corners. Panels feature snap-in hardware and doorpulls. Frame formed to provide facing trim and matches Amweld Inter-Lok or assembled frames for flush doors.

Sizes available (prime finish only)—3', 4', 5', and 6'. Height—6'9 1/2".

## AMWELD® AIR CONDITIONING DOOR

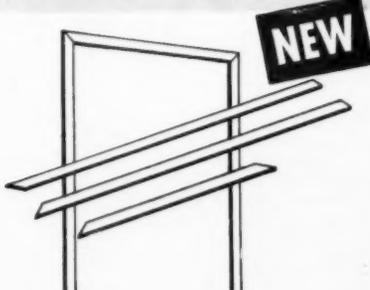


For use with central air conditioning—eliminates need for return ducts or gap door bottom. Allows circulation of air and provides closed door privacy. Use with Amweld 1 3/8" Inter-Lok frames.

Available in 2'0", 2'4", 2'6", 2'8" and 3'0" widths and for standard 6'8" openings.

Grille area adequate for normal residential applications.

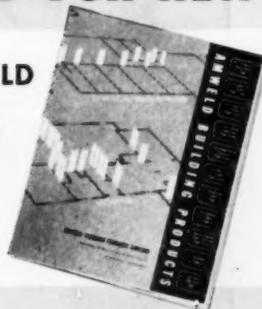
## AMWELD® METAL TRIM for "K-D" Sliding Closet Door Units



- Eliminates interior woodwork around sliding closets.
- Mitered corners—neat, modern appearance.
- Matches Amweld Inter-Lok Door Frames.
- Easy-to-install—trim is held in place by same screws that fasten jambs and header to rough finished opening.
- Sizes to match both Amweld "K-D" Sliding Closet Units and new Amweld King Size Units.

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BUILDING  
PRODUCTS  
CATALOG



20-page booklet. Complete details on construction, installation, sizes, and specifications. Free upon request.

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 Paragon Utilities Corp 50 Van Dam Brook-  
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 Ray Oil Burner Co 407 Bernal Av San  
 Francisco 12 Cal  
 Rybolt Heater Co 615 Miller Ashland Ohio  
 Silent Glow Oil Burner Co 850 Windsor  
 Hartford Conn  
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 City Iowa  
 Sunbeam Air Conditioner Div American  
 Radiator & Standard Sanitary Corp Elyria  
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 Williams Oil-O-Matic Div Eureka-Williams  
 Co 1201 E Bell Bloomington Ill  
 Williamson Heater Co 3500 Madison Rd Cin-  
 cinnati 9 Ohio  
**YORK-SHIPLEY INC BOX 345 YORK PA**

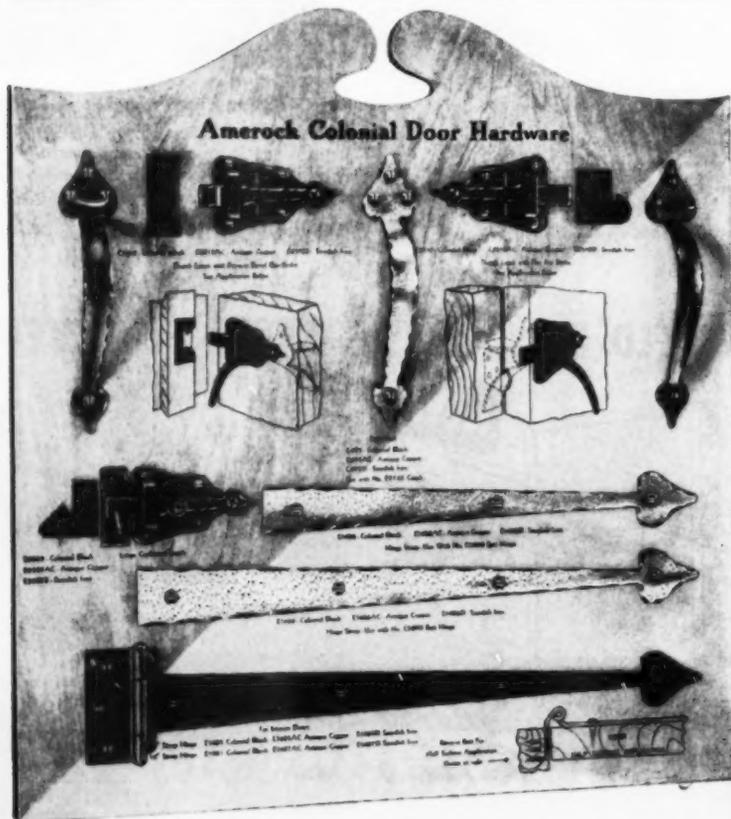
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**AMERICAN CABINET HARDWARE CORP.  
 ROCKFORD, ILLINOIS**



# AFCO

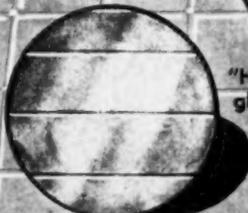
## PRE-FINISHED WALL PANELS

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- No. 307 Peach
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All colors striped white except No. 300 White, which is striped black, red, or grey. All colors of striping are available upon request.



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Alexandria, Louisiana



# New! REYNOLDS ALUMINUM ---SLIDING--- TRAVERSE WINDOW

A new high in the home-selling power of Aluminum Windows at a new low cost. Tops in quality and beauty, low-cost installation using special universal clips. Adaptable to any design, including window walls. *Write for literature.* (Address on next page.)

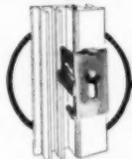
Direct-Mounting Screens and Storm Sash need no special trim or moldings.



Neoprene Weatherstripping and Dust Guards. Vents close tight, lift out easily.



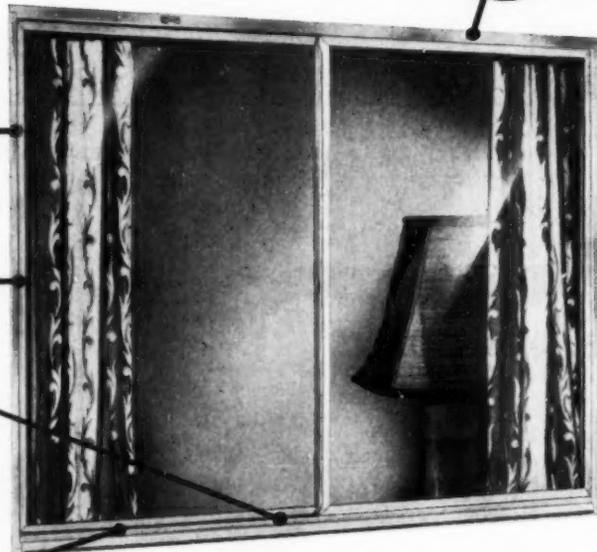
Positive Locking Vents... stainless steel, foolproof, fit against frame.



New "Aquaseal" Efficiency through capillary action of wool pile.

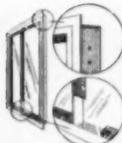
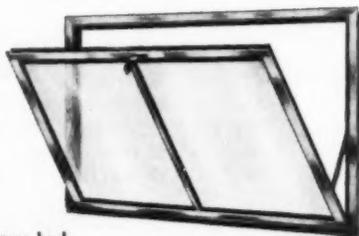


Exclusive "Aquawell" Double Sill drains off condensation and water.



## New! REYNOLDS ALUMINUM BASEMENT AND UTILITY WINDOWS Built of Sections Specifically Engineered for Basement Windows

Weather, rain, mud, dampness fail to harm Reynolds Aluminum Basement Windows. They eliminate trouble and expense, never need paint, never rust or rot.



Serrated Edges lock windows in wall, prevent loosening, anchor glass permanently.



Double Contact Weathering provides flush surface, weather-tight fit.



Two Guide Arms (pat. pending) hold vent rigid, yet permit easy removal.

... and other Famous Performance-Proved



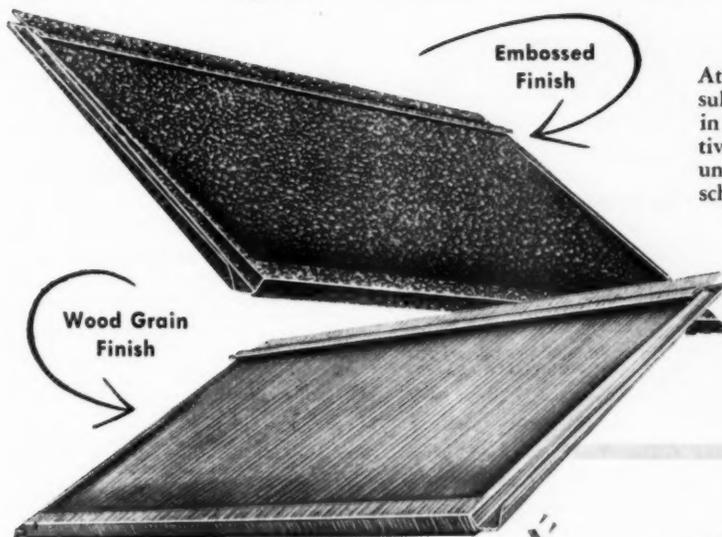
## REYNOLDS ALUMINUM WINDOWS

Popular Awning Type constructed of Reynolds Aluminum Extrusions for controlled ventilation, easy cleaning, positive closing.



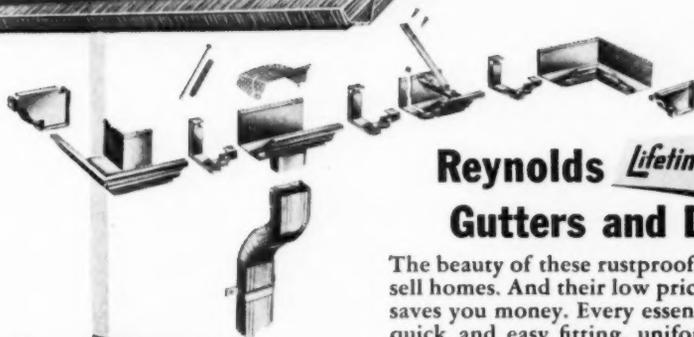
Standard and Modular Casements — rugged, tight, "satinized" finish, with storm sash and screens.

# New! REYNOLDS *Lifetime* ALUMINUM MASTER Shadow-Cup Design SHINGLES



At last, the rustproof permanence and the insulating heat-reflection of an aluminum roof . . . in exceptionally weathertight shingles of distinctive beauty. Deep shadow line enhanced by the unique "Shadow-Cup" feature. Ideal for homes, schools, institutions. Write for literature.

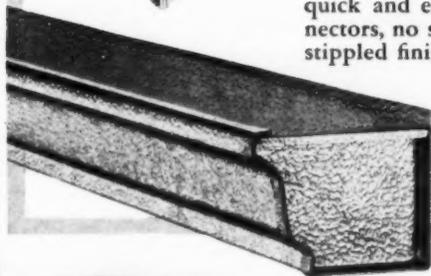
Self-aligning, interlocking, go up quickly and inexpensively, all nails concealed. Anti-capillary side lap,  $\frac{3}{8}$ " shadow line depth. Ideal for new buildings as well as re-roofing.



Eaves Trough and Rectangular Conductor Pipe in 10' lengths. Slip Connector, End Caps R & L, Section with Outlet, Outside Mitre, Inside Mitre, Strap Hangers, 60° Style A ell, 75° Style A ell, Pipe Bands, Strainer, Ferrule & Spike, Aluminum Nails.

## Reynolds *Lifetime* Aluminum Gutters and Downspouts

The beauty of these rustproof, non-staining gutters helps sell homes. And their low price *plus lowest application cost* saves you money. Every essential piece "ready-made" for quick and easy fitting, uniform installation . . . slip-connectors, no soldering! Ogee and Half-Round, plain and stippled finish. Write for literature.



Ogee and Half-Round 5" Gutters. Complete with all Fittings.



## Reynolds *Lifetime* Aluminum Flashing

Lowest in cost of rustproof materials, easiest to work—and best looking! In 50-foot rolls, 14", 20" and 28" wide; also flat sheets 28" by 6', 8', 10', 12'. Thickness .019".



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# ASPHALT Roofings & Sidings

**for every new construction and replacement need!**

## WOODTEX

Grained Surface

12" x 36"



Specifications		
Slabs Per Sq.	Bdls. Per Sq.	Wt. Per Sq.
80	3	250 lbs.

## THICK BUTT

Plain and Grained Surface

12" x 36"



80	3	215 lbs.
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## THREE TAB Hexagonal

Plain and Grained Surface

11 1/2" x 36"



86	2	167 lbs.
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## UNIVERSAL

Plain Surface

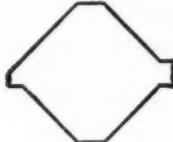


16" x 18" — 4" sidelap

80	2	138 lbs.
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## FRENCH LOCK

Plain Surface



16" x 16" — 2 1/2" sidelap (furnished with staples)

82	2	140 lbs.
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## SAF-T-LOK

Grained Surface

Single Coverage



18 1/4" x 20 1/8" — 2" sidelap

96	3	170 lbs.
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Double Coverage

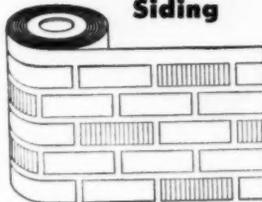


18 1/2" x 20 1/8" — 4" Sidelap

120	3	230 lbs.
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JUMBO DUTCH LAP (plain surface)	12" x 16" — 3" sidelap	112	2	162 lbs.
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## ROLL BRICK-TEX Siding

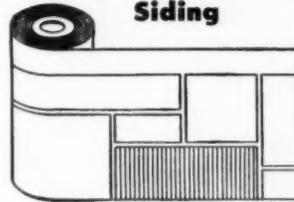


Specifications

Strip Per Roll	Size Per Strip	Wt. Per Roll
2	16" x 42"	105 lbs.

Black Mortar Lines Matching Corner Strips Available

## ROLL STONE DESIGN Siding



Specifications

Strip Per Roll	Size Per Strip	Wt. Per Roll
2	16" x 43' 3"	105 lbs.

Black Mortar Lines Matching Corner Strips Available

## WAVE LINE Siding Shingle

Grained Surface

10 1/4" x 32"



Specifications

Slabs Per Sq.	Bdls. Per Sq.	Wt. Per Sq.
50	1	105 lbs.

Insulating Sidings available at York, Pa. and Savanna, Ill.

## MINERAL SURFACED ROLL ROOFINGS

Certain-teed 90 lb.  
 Certain-teed 19 in. Selvage Edge Roofing  
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 Certain-teed Starter and Valley Strips

## SMOOTH SURFACE ROLL ROOFINGS

Certain-teed 55 lb., 65 lb. & Guard 45 lb.  
 Black & White Cap Sheet  
 Base Sheet

*A Complete Line of*

## FELTS, BUILDING PAPERS, ROOF COATINGS and CEMENTS

**NOTE. A complete list of the wide variety of colors available will be sent at your request.**



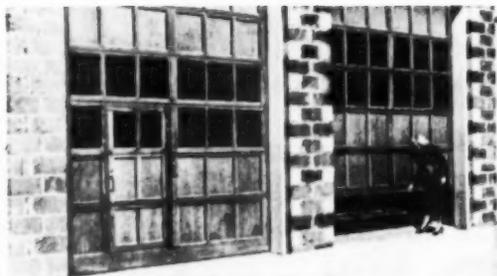
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Quality made Certain... Satisfaction Guaranteed

**CERTAIN-TEED PRODUCTS CORPORATION**  
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ASBESTOS ROOFING • SHINGLES • SIDINGS  
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PASS DOOR. Can be furnished for any Howell-door under 18' wide and 4 Sections or more high.

Use Quality Products . . .

Quality Builders

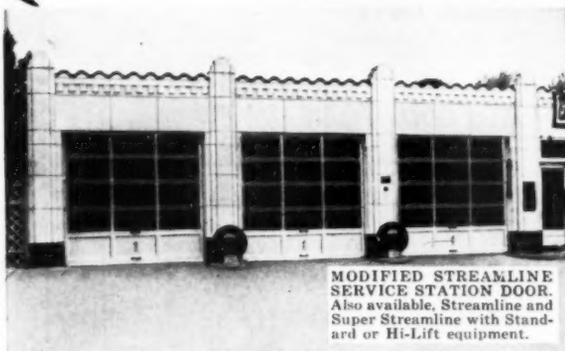


*Howell-door*

"The door everyone looks at twice  
—and likes at once!"

A garage door's worth is best measured in terms of what it does for you . . . "Howell" it performs a service you need. Taking price, quality, styling and service into account, the Howell-door is the sectional door at its best.

Write for new '54 literature.

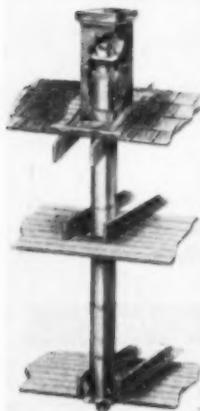


MODIFIED STREAMLINE SERVICE STATION DOOR. Also available, Streamline and Super Streamline with Standard or Hi-Lift equipment.

Now available in 44 stock styles and sizes; custom-built doors are a specialty.

THE HOWELL MANUFACTURING CO.  
7201 Hasbrook Avenue, Philadelphia 11, Pa.

FOR QUICKER,  
MORE PROFITABLE  
BUILDING . . .  
**AIR-JET**  
COMPLETE, PACKAGED  
FIREPLACE



Now even low priced homes can have a fireplace because Air-Jet costs 1/5 to 2/5 less than a conventional fireplace of like size. Has a 30" firebox and auxiliary heating circuit and is designed for zero clearance on all sides. Nothing else to buy . . . build . . . or add.

AND  
**AIR-JET**  
PACKAGED CHIMNEYS

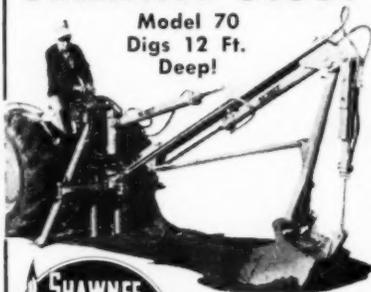
Light in weight (less than 100 lbs.) can be installed in 1 hour! Needs no cement . . . no special tools. UL approved for use with oil, coal, wood or gas fuels and 25 pounds per square foot wind load. Special draft top guards against snow, rain and down-drafts. 3 chimney top models and 3 smoke pipe sizes to choose from.

A few distributorships available. For further information write to:

**GENERAL PRODUCTS COMPANY INC.**  
FREDERICKSBURG 7, VIRGINIA

LONG TRENCHES OR SPOT EXCAVATIONS  
**SHAWNEE SCOUT DITCHER**

Model 70  
Digs 12 Ft.  
Deep!



Owners themselves report satisfactory digging at this depth with a reach of 14 ft. The operating arc is throughout 150° and the loading height is 8 ft. 6 in. Installation or removal from the tractor may be made in less than 20 minutes.



**SHAWNEE  
HYDRO-CLAM**



Minimum hole 36" square for spot excavations. Digs straight down. Forms square corners.

The answer to heavy digging and spot excavations. 4 1/2 tons of pressure is applied to both halves of the clam.

- Digs 8 1/2 feet deep
- Dumping height up to 7 1/2 ft.
- 24", 30" and 36" with clam buckets
- Adjustable outriggers
- Interchangeable

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**Nu-CALK**  
**CALKING COMPOUND**  
**SPEED LOADS or BULK!**



See Pages  
 14-17



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**CAULKING, PRE-MOLDED**

Fabricated Prods Co Water St West Newton Pa  
 Presstite Engineering Co 3900 Choteau Av St Louis 10 Mo  
**STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS**

**CEILINGS, METAL**

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Edwards Mfg Co Fifth & Butler St Cincinnati 2 Ohio  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Hauserman (E F) Co 6850 Grant Av Cleveland 5 Ohio  
 Klauer Mfg Co 9th & Washington Dubuque Iowa  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY**  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
 Tach-Fast Mfg Co Lonaeonring Md  
 Tension Bros Inc 450 N Bellevue Memphis 1 Tenn  
 Virginia Metal Prods Inc Dept A 44 Orange Va  
 Wheeling Corrugating Co Wheeling W Va

**CEILINGS, SUSPENDED**

Lok-Prods Co 5109 San Fernando Rd W Los Angeles 39 Cal  
 Luminous Ceilings Inc 2500 W North Av Chicago 47 Ill  
 Suspended Ceiling Div Sanymetal Prods Inc 2093 E 19th Cleveland 15 Ohio  
 Tach-Fast Mfg Co Lonaeonring Md  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Virginia Metal Prods Inc Dept A 44 Orange Va

**CEMENT, ACIDPROOF**

Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas  
 Atlas Mineral Prods Co Mertztown Pa  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Mexico Refractories Co Love & Cole St Mexico Mo  
 Nukem Prods Corp 111 Colgate Av Buffalo 20 NY  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40**  
 Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
 Quigley Co Inc 527 Fifth Av New York 17 NY  
 Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
 Saureisen Cements Co 1045 N Canal Pittsburgh 15 Pa  
**UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY**

U S Stoneware Co 5300 E Tallmadge Av Akron 9 Ohio

**CEMENT, ASBESTOS**

Asbesto Mfg Corp 131 Wabash Michigan City Ind  
 Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill  
 Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Badger Corrugating Co 1801-39 W Av S La Crosse Wis  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 Clinton Metallic Paint Co Clinton NY  
 Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
 Eagle-Picher Co American Bldg Cincinnati 1 Ohio  
 Flintkote Co 50 W 50th New York 20 NY  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
**INLAND STEEL PRODS CO 4045 W BURN- INLAND MILWAUKEE 1 WIS**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KEASBEY & MATTISON CO BUTLER AV AMBLER PA**  
 Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa  
 Lihon Co 4425 S Oakley Chicago 9 Ill  
 Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY  
 Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
 Pabeo Prods Inc 475 Brannan San Francisco 19 Cal  
**PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA**  
 Phibrice Jointless Firebrick Co 1800 N Kingsbury Chicago 14 Ill  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Rutland Fire Clay Co Curtis Av Rutland Vt  
 Sall Mountain Co Box 777 Hamilton Ohio  
 Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill  
 Texas Co 135 E 42nd New York 17 NY  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill

**CEMENT, CANVAS**

Commercial Paste Co Buttes at Michican Columbus 8 Ohio  
 Fanner Mfg Co Brookside Park Cleveland 9 Ohio  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
**MOORE (GOODLOE E) CO BOX 846 DAN- VILLE ILL**  
 Webb Prods Co 216 S "G" San Bernardino Cal

**CEMENT, HOUSEHOLD REPAIR**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Ambroid Co 305 Franklin Boston 10 Mass  
 American Fluorite Co 4011 Red Bank Rd Cincinnati 27 Ohio  
 Borden Co Chemical Div 350 Madison Av New York 17 NY  
 Boyle-Midway Inc 22 E 40th New York NY  
**CERTAIN-TEED PRODS CORP 120 E LAN- CASTER AV ARDMORE PA**  
 Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill  
 Howe & French Inc 99 Broad Boston 10 Mass  
 Lake Chemical Co 3052 W Carroll Chicago 12 Ill  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
 Reardon Co 7501 Page Av St Louis 14 Mo  
 Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
 So-Lo Wks Inc Loveland Ohio  
 Testor Chemical Co 520 Buckbee Rockford Ill  
 Varler Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill  
 Webb Prods Co 216 S "G" San Bernardino Cal

**CEMENT, KEENE'S**

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LAN- CASTER AV ARDMORE PA**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOOD- VILLE OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

**CEMENT, MASONRY**

Alpha Portland Cement Co First National Bank Bldg Easton Pa

the eyes buy...

sell the preferred Visible Feature!

**WASTE KING PULVERATOR**  
AMERICA'S FINEST GARBAGE DISPOSER

Young homemakers are looking for new homes and apartments equipped with electric garbage disposers. They LOOK for this modern convenience that saves time, saves steps, saves work. You'll sell quicker, rent quicker when you show them WASTE KING Pulverator—the most modern VISIBLE FEATURE you can put into your homes or apartments. It's the lowest budget, highest quality feature that upgrades the value of the new home or apartment.

Model H700 shown

**SUPERIOR WASTE KING FEATURES!**

"HUSH-CUSHIONS"—give 50% quieter, smoother operation. Absorb noise and vibration. WASTE KING is the only really quiet garbage disposer.

LIFETIME GRIND CONTROL—controls the size of waste particles and length of fibrous materials for more years of dependable operation. Prevents jamming, clogging!

UNBEATABLE SERVICE RECORD—less than 1% service callbacks. Relieves builder of complaints. Customer satisfaction assured!

SELL UP THE PREFERRED VISIBLE FEATURE—



Buy from your Friendly Plumbing Contractor now!

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A Product by GIVEN Mfg. Co., Los Angeles 58, Calif., Largest Producer of Garbage Disposers in America!

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Consolidated Cement Corp 111 W Monroe Chicago Ill  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
**GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL**  
Hawkeye Portland Cement Co Cedar Rapids Iowa  
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich  
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo  
Keystone Lime Wks Inc Keystone Ala  
Kosmos Portland Cement Co 1527 Stark Bldg Louisville 2 Ky  
**LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA**  
**LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY**  
**LOUISVILLE CEMENT CO 501 SECOND LOUISVILLE 2 KY**  
**MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL**  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
Missouri Portland Cement Co St Louis 8 Mo  
National Mortar & Supply Co 1st National Bank Bldg Pittsburgh 22 Pa  
North American Cement Corp 41 E 42nd New York 17 NY  
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Riverton Lime & Stone Co Inc Riverton Va  
Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash  
Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala  
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
**UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY**  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis  
X-Pando Corp 43-15 36th Long Island City 1 NY

► **CEMENT, NON-STAINING**

Borden Co Chemical Div 350 Madison Av New York 17 NY  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Southern Cement Co 605 Protective Life Bldg Birmingham Ala  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
**UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY**

► **CEMENT, PORTLAND**

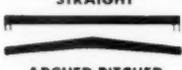
Alpha Portland Cement First National Bank Bldg Easton Pa  
Ash Grove Lime & Portland Cement Co Fairfax Hldg Kansas City Mo  
Calaveras Cement Co 315 Montgomery San Francisco 4 Cal  
California Portland Cement Co 612 S Flower Los Angeles Cal  
Consolidated Cement Corp 111 W Monroe Chicago Ill  
Cumberland Portland Cement Co Chattanooga Tenn  
Dewey Portland Cement Co 310 Ward Pkwy Kansas City 2 Mo  
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
Florida Portland Cement Div General Portland Cement Co Tampa Fla  
**GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL**  
Hawkeye Portland Cement Co Cedar Rapids Iowa  
Hermitage Portland Cement Co Nashville Tenn  
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich  
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo  
Ideal Cement Co 310 Sansome San Francisco 6 Cal  
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Station Salt Lake City 6 Utah  
Kosmos Portland Cement Co 1527 Starks Bldg Louisville 2 Ky  
**LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA**  
**LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY**  
**LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY**  
**MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL**  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
Missouri Portland Cement Co 3615 Olive St Louis 8 Mo  
North American Cement Corp 41 E 42nd New York 17 NY

AMERICAN BUILDER

# RILCO

## GLUED-LAMINATED STRUCTURAL MEMBERS

Use these engineered members to cut erection costs and to add beauty to any type of building.

TYPICAL SHAPES	USES	SPANS	CENTER-TO-CENTER SPACING	ADVANTAGES
 <p>TANGENT ARCHES</p>	Churches Gymnasiums      Chapels Theaters	24' to 100'	8' to 20'	Arch and laminated purlins gives unsurpassed beauty, without expensive veneering. Fire resistant. Made of kiln-dried Douglas Fir selected for strength and appearance.
 <p>RADIAL ARCHES</p>	Gymnasiums      Hangars Auditoriums Armories      Skating Rinks Bowling Alleys	40' to 120'	8' to 20'	Graceful arches have the clean, natural beauty of fine wood. Wide, clear spans give large unobstructed space without unsightly framework. Fire resistant. Efficient design makes a building that is economical to erect.
 <p>STRAIGHT ARCHED-PITCHED LAMINATED WOOD BEAMS</p>	One-story Schools Stores      Offices      Residences Gymnasiums Industrial Buildings	20' to 60'	6' to 20'	Resists checking and warping and other seasoning defects common to solid timber. Fire resistant. Combines structural and decorative advantages for economy.
 <p>RILCORD TRUSSES</p>	Wide, Clear-Span Buildings Garages      Factories      Hangars Warehouses      Gymnasiums	24' to 200'	8' to 20'	Well adapted to wide, clear-span construction. Economical. Designed for specific requirements such as concentrated loads, hoists, etc.
 <p>TIED ARCHES</p>	Stores      Factories Theaters Warehouses      Hangars	24' to 65'	2'	Light enough to erect without special equipment. One inch roof sheathing can be nailed to top of arch with ceiling material nailed directly to lower tie.
 <p>UTILITY ARCHES</p>	Small Hangars Warehouses      Gymnasiums Theaters Community Buildings	28' to 80'	2' to 20'	Easy to plan. Economical. Combines sidewall and roof in one piece for easy erection. Requires no costly field assembly. Any type of roofing can be applied over sheathing.
 <p>FARM RAFTERS</p>	Barns      Utility Buildings Machine Sheds Grain Storage Buildings	any span any desired building	2'	Keep labor costs down—rafters for large barn can be erected in less than a day. No internal posts or braces. Laminated with waterproof glue. Engineered for every type of farm building such as barns, machine sheds, corn cribs and granaries, poultry and hog houses.

# RILCO

Laminated PRODUCTS, INC.

2511 First National Bank Bldg., St. Paul 1, Minnesota

### RILCO LAMINATED PRODUCTS, INC.

2511 First National Bank Building, St. Paul 1, Minnesota

Please send me information on:

- Tangent Arches     Radial Arches     Beams     Farm Rafters  
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City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_



**kitchens  
look  
larger**

**HAVE MORE  
WORKING SPACE  
—SEAT MORE DINERS**

**and cost less  
WITH BIANCO**

**Kitchen Hostess**

**READY BUILT  
NOOKS**

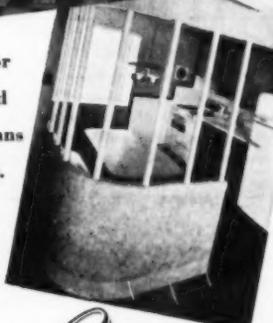
**OPEN FLOOR PLANNING**

The trend is to open floor planning and Bianco Kitchen Hostess Nooks spark the trend with style, comfort, utility, economy and "buy" appeal. Many of America's foremost architects and builders now incorporate Bianco Ready Built Nooks into the Nation's most popular homes. Adaptable to interesting architectural details. Investigate.

Many styles and sizes to meet all floor plans. Hardwood frames. No-sag springs. Custom upholstered in heavy vinyl plastic (your choice of colors and designs) over rubberized hair. Free kitchen-planning drafting service.



Write for catalog and send kitchen floor plans for suggestions.



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in principal cities.  
MANUFACTURING CO.

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Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich  
Penn-Dixie Cement Corp 60 E 42nd New York 17 NY  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Southwestern Portland Cement Co 1034 Wilshire Blvd Los Angeles Cal  
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY

► **CEMENT, PORTLAND, AIR-ENTRAINING**

Alpha Portland Cement Co First National Bank Bldg Easton Pa  
Consolidated Cement Corp 111 W Monroe Chicago Ill  
GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL  
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich  
Kosmos Portland Cement Co 1527 Starks Bldg Louisville 2 Ky  
LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA  
LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY  
LOUISVILLE CEMENT CO INC 501 S SECOND LOUISVILLE 2 KY  
MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO 6 ILL  
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND OHIO  
North American Cement Corp 41 E 42nd New York 17 NY  
Trinity Div General Portland Cement Co 111 W Monroe Chicago Ill  
UNIVERSAL ATLAS CEMENT CO 100 PARK AVE NEW YORK 17 NY

► **CEMENT, PORTLAND, GRAY, WATERPROOF**

Calaveras Cement Co 315 Montgomery San Francisco 4 Cal  
LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY  
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md

► **CEMENT, PORTLAND, HIGH EARLY STRENGTH**

Alpha Portland Cement Co First National Bank Bldg Easton Pa  
Calaveras Cement Co 315 Montgomery San Francisco 4 Cal  
Consolidated Cement Corp 111 W Monroe Chicago Ill  
GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL  
Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich  
LEHIGH PORTLAND CEMENT CO 718 HAMILTON ALLENTOWN PA  
LONE STAR CEMENT CORP 100 PARK AV NEW YORK 17 NY  
LOUISVILLE CEMENT CO 501 S SECOND LOUISVILLE 2 KY  
MARQUETTE CEMENT MFG CO 20 N WACKER DR CHICAGO ILL  
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO  
Missouri Portland Cement Co 3615 Olive St Louis 8 Mo  
North American Cement Corp 41 E 42nd New York 17 NY  
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich  
Penn-Dixie Cement Corp 60 E 42nd New York 17 NY  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash  
Standard Lime & Stone Co First National Bank Bldg Baltimore 3 Md  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY

► **CEMENT, PORTLAND, WHITE**

Calaveras Cement Co 315 Montgomery San Francisco 4 Cal  
GENERAL PORTLAND CEMENT CO 111 W MONROE ROOM 905 CHICAGO 3 ILL  
LOUISVILLE CEMENT CO INC 501 S SECOND LOUISVILLE 2 KY  
MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY

► **CEMENT, PORTLAND, WHITE WATERPROOF**

MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
UNIVERSAL ATLAS CEMENT CO 100 PARK AV NEW YORK 17 NY

► **CEMENT, ROOFING**

Abesto Mfg Corp 131 Wabash Michigan City Ind  
Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill  
Armstrong Co 1001 E 163rd Chicago 28 Ill  
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
BARRETT DIV ALLIED CHEMICAL & DYE CORP 46 RECTOR NEW YORK NY  
BIRD & SOVE INC EAST WALPOLE MASS  
Camp Co Inc 6958 S State Chicago 21 Ill  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AVE ARDMORE PA  
Clinton Metallic Paint Co Clinton New York  
Coopers Creek Chemical Corp West Conshohocken Pa  
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
Dad & Lad Co New Lenox Ill  
Devco & Reynolds Co Inc 787 First Av New York 17 NY  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
FLINTKOTE CO 50 W 50TH NEW YORK 20 NY  
Ford Roofing Prods Co 188 W Randolph Chicago 2 Ill  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio  
Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
Harrison Paint & Varnish Co 1329 Harrison Av S W Canton 1 Ohio  
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
KEASBEY & MATTISON CO BUTLER AV AMBLER PA  
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill  
Koppers Co Inc Tar Prods Div Pittsburgh 19 Pa  
Lastik Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa  
Logan-Long Co 6600 S Central Av Chicago 38 Ill  
Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY  
Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
Pabco Prods Co 475 Brannan San Francisco Cal  
PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY  
Rutland Fire Clay Co Rutland Vt  
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Steelcoke Mfg Co 3418 Gratiot St Louis 3 Mo  
Sullivan Co Box 2606 Memphis 2 Tenn  
Texas Co 135 E 42nd New York 17 NY  
Truscen Laboratories Div Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass

► **CEMENT, RUBBER**

Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky  
Camp Co Inc 6958 S State Chicago 21 Ill  
Commercial Paste Co Butties at Michigan Columbus 8 Ohio  
Crescent Prods Co 315 N 14th Terre Haute Ind  
Flier (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
Goodrich (B F) Co 500 S Main Akron 18 Ohio

AMERICAN BUILDER

# EVEREADY BRIKSAW



**CUT ANY MASONRY  
MATERIAL FAST...  
...AT LOWEST COST!**



Cutting WET (Dustless) or DRY, Eveready BrikSaw is the fastest, most efficient Masonry Saw on the market. The simplicity of BrikSaw's design plus the EXCLUSIVE labor-saving features, make BrikSaw the most profitable to operate masonry saw for any job.

## EXCLUSIVE BrikSaw FEATURES

<p>"Adjusta-Height" Swing the cutting head to any desired position with this "Toe-Matic" foot treadle. Fast shift from one type of masonry material to another. ... adjusts in 4 seconds.</p>	<p>One piece cutting head for immediate, easy portability. Off saw frame in 21 seconds flat!</p>	<p>Automatic pressure control for the blade. Adjusts cutting pressure to hardness or softness of material.</p>
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**EVEREADY  
XTRA-CUT  
ABRASIVE BLADES**

Consistent quality — the result of continuous oven processing ... oven temperature never varies ... product control is absolute. EVEREADY "XTRA-CUT" Blades are available in both WET and DRY cutting specifications to fit every Masonry and Hand Power Saw.

YOUR  
EVEREADY DEALER CARRIES  
THE MOST COMPLETE LINE  
OF MASONRY AND CONCRETE  
CUTTING EQUIPMENT

**EVEREADY  
TUFFIE  
REINFORCED BLADES**

For Masonry Saws and Hand Power Saws. Virtually unbreakable ... recommended for difficult edge cuts ... grooving ... grinding cuts. Internally reinforced with NYLON "SAFETY-WEB". You can drop it, bend it, twist it.

## INCREASE YOUR JOB PROFITS

Increase job profits ... lower cutting costs with a PORTABLE Eveready BrikSaw on the job. Cut any shape, any size ... all types of Masonry, Stone, and Refractory materials in SECONDS ... Always a better, faster job with EVEREADY BRIKSAW.



**FREE BOOK**  
FREE BOOK on Masonry cutting ... requested by more than 18,000 ... will be sent without obligation ... or ask your dealer.

**EVEREADY  
POWR-DRIVE  
CONCRETE SAW**

Takes the "Push-Pull out of Concrete Sawing—drives FORWARD AT CONTROLLED SPEED! "POWR-DRIVE" increases cutting footage with less operator effort—cuts at the lowest possible cost per lineal foot, whether used on small patching or trenching jobs or on continuous, full-scale joint cutting of highways, streets, airport runways.

**EVEREADY  
RED-I-CUT  
DIAMOND BLADES**

**NEW**  
Continuous Rim  
For Masonry Saws cut two to three times faster than standard abrasive blades when used to cut hard, dense, vitreous materials such as Glazed Tile, Glass Block, Fire Brick, Marble, etc.

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**EVEREADY BRIKSAW CO. • 1505 S. MICHIGAN BLVD.  
CHICAGO 5, ILL.**

# Milwaukee Clutch-Drive 6½" HI-SPEED SAW

The only power-saw  
needed to build a home



MODEL 825  
1½ H.P. 6800 R.P.M.

**\$66<sup>50</sup>**

With steel carrying  
Case \$74.30

Makes ALL sawcuts required  
in building a home, including . . .



- ★ Mitters 2" dressed lumber at 45°
- ★ For a Hip-roof — Compound-angle or Cheek Cuts . . . and Double-cheek Cuts
- ★ For a Gable-roof — Seat or "Birdsmouth" Cuts . . . Plumb cuts . . . and Level Cuts
- ★ Gaining for Let-in braces on wall framing.
- ★ Vertical cuts, full 2-5/32" deep

**CLUTCH-DRIVE, a MILWAUKEE Exclusive** — the over-riding CLUTCH-DRIVE completely absorbs the high frequency oscillation of the saw blades, and prevents back-lash shock to gears . . .

**ADDING YEARS TO LIFE OF GEARS**

Also ask about Milwaukee Model 825 Hi-Speed Mitring saw, 8¼" blade, \$89.50. With steel carrying case, \$97.50

Write us today for FREE Folder SW-1.

Milwaukee Model 656 light weight, Hi-Speed, Mitring saw does all the work of larger, heavier saws priced up to \$135.00. Ball and Roller bearings throughout . . . complete with automatic telescoping guard, sawdust blower, full-view line sight, rip fence, and rigid steel shoe. Also available — blades and abrasive discs for cutting concrete, tile, masonry, transite and metal.

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Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
Kuhls (H B Fred) 6413 Third Av Brooklyn NY  
Lao-Stik Mfg Co B & Wayne St Hamilton Ohio  
LePage's Inc 40 Swanson Gloucester 41 Mass  
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
**MIRACLE ADHESIVE CORP 214 E 53RD NEW YORK 22 NY**  
National Adhesive Div National Starch Prods Inc 269 Madison Av New York NY  
Placo Div Paisley Prods Inc 718 Washington Av North Minneapolis Minn  
St Louis Rubber Cement Co Inc 514 Calvary Av St Louis 15 Mo  
Sauerisen Cements Co 1045 N Canal Pittsburgh 15 Pa  
Standard Paste & Glue Co Inc 3620 W 38th Chicago Ill  
Sullivan Co Box 2606 Memphis 2 Tenn  
Union Rubber & Asbestos Co Allen & Donahue Trenton 6 NJ  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
Van Cleef Bros Inc 7800 S Woodlawn Av Chicago 19 Ill  
Webb Prods Co 216 S "G" San Bernardino Cal  
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 13 Pa

## ▶ CEMENT, TILE

**A & F TILEBOARD CO LEE & ROY BOX 4885 ALEXANDRIA LA**  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
Atlas Mineral Prods Co Mertztown Pa  
Boyle-Midway Inc 22 E 40th New York 16 NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
Christy Co Inc 4464 Duncan St Louis 10 Mo  
Commercial Paste Co Bottles at Michigan Columbus 8 Ohio  
Consumers Glue Co 1515 Hadley St Louis 6 Mo  
Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
Dieks-Pontius Co 5300 Huberville Rd Dayton Ohio  
**HACHMEISTER INC BOX 357 PITTSBURGH 30 PA**  
Hayes Adhesives Co 4159 Union Blvd St Louis Chicago 16 Ill  
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
Lastick Prods Co Inc 203 Iroquois Bldg Pittsburgh 13 Pa  
**MARSH WALL PRODS INC 268 MAIN DOVER OHIO**  
McGuffie (W W) & Co 3400 Theurer Ct Cleveland 9 Ohio  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 32 NY**  
**MOORE (GOODLOE E) BOX 846 DANVILLE ILL**  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**  
Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich  
Plastic Prods Co 6473 Georgia Av Detroit 11 Mich  
Prestile Mfg Co 2850 Ozden Av Chicago 50 Ill  
Reardon Co 7501 Page Av St Louis 14 Mo  
Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
Selek (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
Sisk (R J) Co New London Conn  
Standard Paste & Glue Co Inc 3620 W 38th Chicago Ill  
Steeleco Mfg Co 3418 Gratiot St Louis 3 Mo  
Superior Plastic Inc 410-430 N Oakley Blvd Chicago 12 Ill  
Technical Supply Co 1911 University Av Palo Alto Cal  
Tileboard Corp 2550 Atlantic Av Brooklyn NY  
Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
Tilette Cement Co Inc 401 Lafayette New York 3 NY  
Wallace Mfg Co 10th & Fayette Kansas City Mo  
Webb Prods Co 216 S "G" San Bernardino Cal  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
X-Pando Corp 43-15 36th Long Island City 1 NY

## ▶ CEMENT, WALLBOARD JOINT

**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**

# BUILD GREATER VALUE - SALES APPEAL

INTO YOUR NEW HOMES

Here's the WAY



equip for MODERN ELECTRICAL LIVING

Here's the MEANS



1891-I  
Switch  
92071  
Wallplate

9260-I  
Receptacle  
92101  
Wallplate

7714-I  
Clock Outlet

7869 Duplex  
Weatherproof  
Outlet

7681  
Porcelain  
Receptacle

5349 Comb  
Switch-Pilot Light  
Gr. Outlet

4029  
Door Switch

1711  
Louvre Light  
6408  
Brass Plate

5262  
Grounded  
Outlets For  
Appliances

DL-500-F  
Decor-Lite  
For Controlled  
Lighting

7750  
Fan Hanger

7896-I Flush  
Range Outlet



## Wiring Devices

Count the jobs electricity does in your own home, and you'll realize that living today is basically **electrical**. So, the best way to add real value and sales appeal is to install the **more** than merely adequate wiring that will assure truly modern electrical convenience . . . and make the difference between a house and a real home.

Plan to install **enough** wiring devices for both today's and tomorrow's needs. And install only **Quality** wiring devices . . . because it takes quality to provide the year-in-year-out safety and dependable performance that assure lasting customer satisfaction and help build your reputation.

THE MOST COMPLETE LINE AVAILABLE . . . THE HIGHEST POSSIBLE QUALITY



### LIFETIME *Quietie* SWITCH

quiet mechanical action . . . only quiet switch that safely operates both regular and fluorescent lights and electrical appliances. Available in single and double pole, 3 or 4-way with Ivorylite or Brown operating handle. Fits all standard wallplates.

IT'S EASY TO BE AN ELECTRICAL EXPERT . . . THE **AH** WAY

#### "EASIER LIVING" Booklet

This new, fully-illustrated, easy-to-understand booklet sells your customers on the advantages of truly adequate wiring . . . shows how easy (and economical) it is to provide for modern electrical living if it's planned from the beginning. Saves valuable time . . . helps your customers make up their minds.

SEE YOUR ELECTRICAL DISTRIBUTOR

## ARROW-HART

WIRING DEVICE DIVISION

THE ARROW-HART & HEGEMAN ELECTRIC COMPANY  
103 HAWTHORN ST., HARTFORD 6, CONN., U.S.A.

OFFICES, SALES ENGINEERS AND WAREHOUSES IN: ATLANTA, BOSTON, BUFFALO, CHICAGO, CINCINNATI, CLEVELAND, DALLAS, DETROIT, HOUSTON, INDIANAPOLIS, KANSAS CITY, MO., LOS ANGELES, MILWAUKEE, MINNEAPOLIS, NEW YORK, PHILADELPHIA, PITTSBURGH, ST. LOUIS, SAN FRANCISCO, In Canada: ARROW-HART & HEGEMAN (CANADA) LTD., MT. DENNIS, TORONTO. In England: ARROW ELECTRIC SWITCHES, LTD., EALING, LONDON W5.

THE ARROW-HART & HEGEMAN ELECTRIC CO.  
Wiring Device Division  
103 Hawthorn Street, Hartford 6, Conn.

Please send me the following:  The Complete A-H Wiring Device Catalog  
 Booklet "Easier Living—Electrically" featuring A-H package plan.

NAME \_\_\_\_\_ AB-4  
POSITION \_\_\_\_\_  
COMPANY \_\_\_\_\_  
CO. ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_



## WITH **Jiffy** SAWHORSE BRACKETS

- NO NAILS
- NO BOLTS
- NO SCREWS

All welded construction. Use any 2x4s for legs and crossbar.

Set up or knocked down instantly. Easy to move from job to job, and easy to store.

For sale in most hardware and lumber stores. If your dealer cannot supply you, write us direct.



At Work



At Home



At Church



**GRAND HAVEN STAMPED PRODUCTS CO.**  
GRAND HAVEN, MICH.

**Bridge Wood Joists** FASTER, BETTER  
... AND AT LOWER COST  
WITH **CHAN-L-CROS**<sup>®</sup>  
*Metal* CROSS BRIDGING

4 Sizes for  
8'-10'-12' Beams  
Placed on 12' up  
to 24' Centers

• Eliminates Sawing and Fitting of Wood Braces • Comes Packaged, Ready for Easy Installation • All-Steel, Excels in Effective Strength, Durability • Superior Performance Under Load, Works on the Principle of Tension

Save time, save money, and provide greater floor strength by bridging joists with Chan-L-Cros. Unlike ordinary wood bridging that is nailed in the sides of joists, Chan-L-Cros is nailed to the Top and Bottom Edges - prevents deflection of beams by the Tension method. Under load, the metal braces cannot separate from beams at points of attachment, nor can withdrawal of nailing result. Thus, Chan-L-Cros is *always* prepared to effectively keep long joist spans in proper alignment. Provision for nailing meets requirements of all building codes. It offers you many more advantages. Investigate!

Write for Details Today!  
**JUNIOR-PRO PRODUCTS CO.**  
3206 Morganford Rd., St. Louis 16, Mo.

INSTALL IN FOUR EASY STEPS

**CELOTEX CORP** 120 S LA SALLE CHICAGO 3 ILL  
**CERTAIN-TEED PRODS CORP** 120 E LANCASTER AV ARDMORE PA  
Christy Co Inc 5040 Daggett Av St Louis 10 Mo  
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
**MARSH WALL PRODS INC** 268 MAIN DOVER OHIO  
**MIRACLE ADHESIVES CORP** 214 E 53RD NEW YORK 22 NY  
National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
**NATIONAL GYPSUM CO** 325 DELAWARE AV BUFFALO 2 NY  
National Tileboard Corp 1314 Blondell Av New York 61 NY  
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
**PITTSBURGH PLATE GLASS CO** 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Reardon Co 7501 Page Av St Louis 14 Mo  
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
**UNITED STATES GYPSUM CO** 300 W ADAMS CHICAGO 6 ILL  
Wesco Waterpumps Inc Matteson Ill

### ► CEMENT, WATERPROOFING

**A & F TILEBOARD CO LEE & ROY BOX** 4085 ALEXANDRIA LA  
Abesto Mfg Corp 131 Wabash Michigan City Ind  
Adensite Co Inc 37-19 23rd Long Island City NY  
American Fluoresit Co 4011 Red Bank Rd Cincinnati 29 Ohio  
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Armor Laboratories Inc Commercial & Doran St Glendale 3 Cal  
Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Texas  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP** 40 RECTOR NEW YORK 6 NY  
**BIRD & SON INC EAST WALPOLE MASS** CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
Crescit Waterproofing Corp 3227 S Shields Chicago 11  
**FLINTKOTE CO** 50 W 50TH NEW YORK 20 NY  
Gilson-Homats Co 2366 Woodhill Rd Cleveland 6 Ohio  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Tenth & 44th Av Long Island 1 NY  
**JOHNS-MANVILLE CORP** 22 E 40TH NEW YORK 16 NY  
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa  
Lastick Prods Co 203 Iroquois Bldg Pittsburgh 13 Pa  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Logan-Lang Co 6600 S Central Av Chicago 38 Ill  
**MARSH WALL PRODS INC** 268 MAIN DOVER OHIO  
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn  
**MIRACLE ADHESIVES CORP** 214 E 53RD NEW YORK 22 NY  
National Guard Prods 757 Madison Memphis 7 Tenn  
**PECORA PAINT CO INC** 4TH & RDG RR PHILADELPHIA 10 PA  
Ranette Mfg Co Inc 1917 S Broadway St Louis Mo  
Smooth-On Mfg Co 568-574 Communipaw Av Jersey City 1 NJ  
**STANDARD DRY WALL PRODS INC BOX X NEW EAGLE PA**  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
Tammis Industries Inc 228 N La Salle Chicago 1 Ill  
Texas Co 135 E 42nd New York 17 NY  
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
Truseon Laboratories Div Devco & Reynolds Co Caniff at Grand Trunk RR Detroit 11 Mich  
Webb Prods Co 216 "G" San Bernardino Cal  
X-Pando Corp 43-15 36th Long Island City 1 NY

### ► CHAINS, SASH

American Chain Div American Chain & Cable Co Inc York Pa  
Campbell Chain Co York Pa  
**CHASE BRASS & COPPER CO INC** 236 GRAND WATERBURY 20 CONN  
**CORBIN (P & F) DIV AMERICAN HDWE CORP** 67 PARK AV NEW BRITAIN CONN  
Eaco Chain Wks 209 E 22nd New York NY  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Hod-Il Chain Co Div of the National Screw & Mfg Co 3924 Cooper Av Cleveland 3 Ohio  
Independent Lock Co 1950 Cleghorn Fitchburg Mass  
**LOCKWOOD HDWE MFG CO** 35 DANIELS FITCHBURG MASS

National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio  
Peerless Chain Co Front & Walnut St Winona Minn  
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn  
Round Chain Co Broadway & Chaineraft Rd Cleveland 5 Ohio  
Taylor (S G) Chain Co Box 509 Hammond Ind  
**TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN**  
Western Chain Co 1807 Belmont Av Chicago 13 Ill  
Western Foundry Co 2400 SW Water Av Portland 1 Ore

### ► CHALK LINES

Brownell & Co Moodus Conn  
Carpenter (George B) & Co 401 N Ogden Av Chicago 11  
Cedarberg Mfg Co 545 S 4th Minneapolis 15 Minn  
Cleveland Mills Co Lawndale NC  
**GOLDBLATT TOOL CO** 1924 WALNUT KANSAS CITY 8 MO  
Graham (John H) & Co 105 Duane New York 8 NY  
Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky  
Raucher Mfg Co Norwich Conn  
**SAMSON CORDAGE WKS** 80 BROAD BOSTON 10 MASS  
Tennessee Line & Twine Co 705 Lynn Av Elizabethton Tenn  
Tru-Line Co 707 Locust Des Moines Iowa  
Turner & Stanton Co Norwich Conn  
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn

### ► CHIMNEY CAPS

Acme Brick Co Box 425 Fort Worth Tex  
Adams Co Box 268 Dubuque Iowa  
American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Bowerston Shale Co Bowerston Ohio  
Business Service 122 N 7th St Louis 1 Mo  
Cannelton Sewer Pipe Co Inc 4th & Washington Cannelton Ind  
Dennison Sewer Pipe Corp 3334 Prospect Av Cleveland 15 Ohio  
Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo  
Evans Brick Co Uhrichsville Ohio  
Evans Pipe Co 23 Newport Av Uhrichsville Ohio  
Evans & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
Giehrer Inc 1900 Kendall NE Washington 2 DC  
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston 1 Tex  
**INLAND STEEL PRODS CO** 4045 W BURNHAM MILWAUKEE 1 WIS  
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
Logan Clay Prods Co Logan Ohio  
Maple City Furnace Co Monmouth Ill  
**NATIONAL CLAY PIPE MFRS INC** 100 N LA SALLE ROOM 2100 CHICAGO 2 ILL  
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Northwestern Terra Cotta Corp 1750 W Wrightwood Chicago 14 Ill  
Pacific Clay Prods 306 W Avenue 26 Los Angeles 31 Cal  
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa  
Perma-Top Co 410 Shadyhill Rd Pittsburgh 5 Pa  
Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa  
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
Robinson & Son Sewer Pipe Co 1500 Union Commerce Bldg Cleveland 14 Ohio  
Sterling Foundry Co Box 457 Sterling Ill  
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio  
Streator Drain & Tile Co Streator Ill  
Superior Clay Corp Uhrichsville Ohio  
Tesco Inc 110 S Norfolk Tulsa Okla  
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 41 Ohio  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ► CHISELS

Baltimore Tool Wks 1110 Race Baltimore 30 Md  
Billings & Spencer Co 12 Laurel Hartford 1 Conn  
Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn  
Champion-De Arment Tool Co Meadville Pa  
Cincinnati Tool Co Norwood Cincinnati 12 Ohio



Its Reach is **HIGH**

...Its Price is **LOW**

## DEARBORN INDUSTRIAL LOADER for the **FORD TRACTOR**

Here's a steady profit producer—a great manpower saver—on many dirt and material moving jobs. The Dearborn Industrial Loader lifts and dumps 9 cu. ft. of material at any height from ground level up to 10½ feet. Two hydraulic cylinders control and stabilize bucket action. The separate hydraulic pump that powers the loader is mounted on the tractor, thus freeing the Ford Tractor's Hydraulic System to operate blades, scoops and other rear-attached tools, even during loader operation.

And the capacity, reach and speed of lift, economy and over-all performance of the Dearborn Industrial Loader are equal to or exceed those of any other loader designed for use with the Ford Tractor.

Yet, with all this, the Dearborn Industrial Loader's low purchase price—low operating cost—make it a profit producer on a wide range of jobs. See it soon at your nearby Ford Tractor Dealer's!

**TRACTOR AND IMPLEMENT DIVISION, Ford Motor Company, Birmingham, Mich.**



### **DEARBORN ANGLE DOZER** *Extends Loader's Uses!*

This sturdy six-foot blade handles back-filling, grading, windrowing and clean-up jobs in a hurry. Angle and pitch are easily adjustable . . . blade lifts and lowers hydraulically. Attaches to Dearborn Industrial Loader with low cost adapter unit.



SO EASY TO INSTALL!  
GREAT DESIGN!  
LASTING SATISFACTION!

**Home Builders—  
Home Designers—  
Home Owners—**  
all prefer these fine

# BILT-WELL

## PRODUCTS



BILT-WELL CABINETS

BILT-WELL AWNING WINDOWS

BILT-WELL WINDOWS

Sold by leading Lumber Dealers  
Manufactured by  
**CARR, ADAMS & COLLIER COMPANY**  
DUBUQUE, IOWA  
ESTABLISHED 1866

The complete line of Bilt-Well Woodwork:  
Complete Unit Windows, Casements, Awning  
Windows, Kitchen Cabinets, Multiple-use Cab-  
inets, Overhead Garage Doors, Combination Win-  
dows, Storm & Screen Units, Basement Windows,  
Shutters, Exterior and Interior Doors, Entrances,  
Gable Sash, Louvers, Corner China Cabinets,  
Mantels, Telephone Cabinets and Stair Parts

Twice as weathertight yet  
requiring only one-tenth  
the lifting effort.

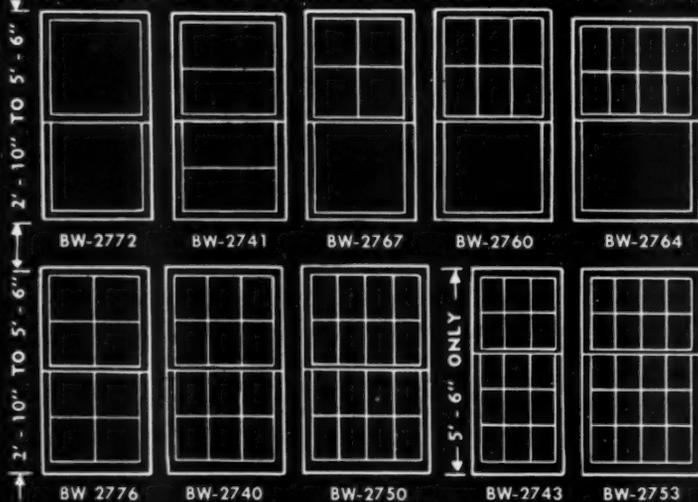
Made of clear, kiln-dried Ponderosa Pine.  
Water repellent treated in strict accordance  
with NWMA standards. Adaptable to  
various wall thicknesses and standard  
types of construction.

The exclusive  
BILT-WELL  
jamb-liner  
weatherstrip



### BILT-WELL Superior WINDOWS

AVAILABLE IN ALL STANDARD WIDTHS 1' - 4" TO 3' - 8"



#### STANDARD SIZES

GLASS SIZE	STUD OPENING						
16" x 16"	1-11" x 3-8"	20" x 22"	2-3" x 4-8"	24" x 20"	2-7" x 4-4"	28" x 28"	2-11" x 5-8"
16" x 20"	1-11" x 4-4"	20" x 24"	2-3" x 5-0"	24" x 22"	2-7" x 4-8"	32" x 16"	3-3" x 3-8"
16" x 24"	1-11" x 5-0"	20" x 26"	2-3" x 5-4"	24" x 24"	2-7" x 5-0"	32" x 20"	3-3" x 4-4"
20" x 14"	2-3" x 3-4"	20" x 28"	2-3" x 5-8"	24" x 26"	2-7" x 5-4"	32" x 24"	3-3" x 5-0"
20" x 16"	2-3" x 3-8"	24" x 14"	2-7" x 3-4"	24" x 28"	2-7" x 5-8"	32" x 26"	3-3" x 5-4"
20" x 18"	2-3" x 4-0"	24" x 16"	2-7" x 3-8"	24" x 30"	2-7" x 6-0"	32" x 28"	3-3" x 5-8"
20" x 20"	2-3" x 4-4"	24" x 18"	2-7" x 4-0"	28" x 20"	2-11" x 4-4"	36" x 16"	3-7" x 3-8"
				28" x 24"	2-11" x 5-0"	36" x 20"	3-7" x 4-4"
				28" x 26"	2-11" x 5-4"	36" x 24"	3-7" x 5-0"
						40" x 26"	3-11" x 5-4"
						40" x 28"	3-11" x 5-8"
						40" x 30"	3-11" x 6-0"
						40" x 32"	3-11" x 6-4"
						40" x 36"	3-11" x 7-0"

# BILT-WELL KITCHEN AND MULTIPLE USE CABINETS

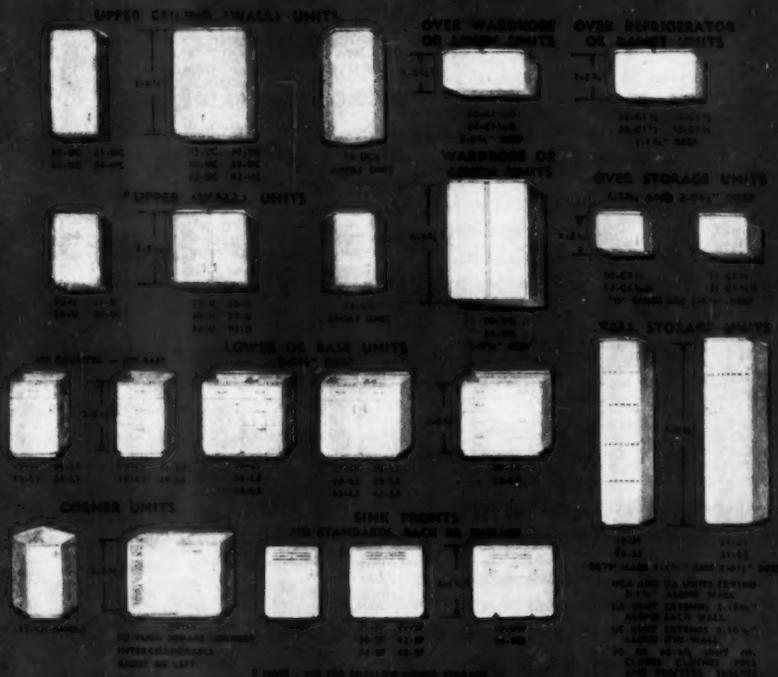
The Cabinets with the rounded corners.



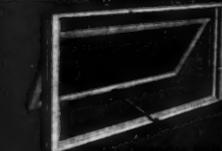
Fast Well Corner Panel

Ideal for kitchens, bedrooms, bathrooms and halls... for new or old homes... for any size or shape of room. Easily scribed to fit irregular walls.

Bilt-Well Cabinets are made in separate units, K.D. semi-assembled, fully manufactured, pre-fitted and ready to put together. They can be decorated to fit each individual's taste.



# BILT-WELL AWNING WINDOWS can be combined in numerous ways



Build Well with

Glass Width	COMBINING BY AWNING, HOPPER OR UNIT PICTURES		
	1 Unit Wide	2 Unit Wide	3 Unit Wide
28	Maxwell One 3-0 Rough 2-9 1/2	M O 3-9 R O 3-9 1/2	M O 8-6 R O 8-3 1/2
36	Maxwell 3-8 Rough 3-5 1/2	M O 7-7 1/2 R O 6-10 1/2	M O 10-8 R O 10-5 1/2
44	Maxwell 4-4 Rough 4-1 1/2	M O 8-5 R O 8-2 1/2	M O 12-8 R O 12-5 1/2
		<p>RISSON—MAY BE AWNING, FIXED OR HOPPER</p>	
		<p>DOUBLE STACKED—MAY BE AWNING, FIXED OR HOPPER</p>	
		<p>TRIPLE STACKED—MAY BE AWNING, FIXED, HOPPER OR MIXED</p>	
		<p>FIXED PICTURE UNIT WITH HOPPER BELOW—MAY BE COMBINED WITH TRIPLE STACKED</p>	

**MATERIAL:** Ponderosa Pine toxic water repellent treated.  
**GLAZING:** Sash are clamp glazed with SSB glass. Removable bead to reglaze when necessary. Double glazing panels. SSB glass with aluminum surround. Picture unit glazed 1/8" thick glass through 3/4" insulating glass.  
**SCREENS:** Wood (see material) with aluminum wire cloth alternate: Aluminum framed screens available.  
**WEATHERSTRIP:** Anodized special alloy aluminum.  
**HARDWARE:** Friction Slide Hinge, Bar Operator installed, Locking Handle, etc., in envelope.

Cleveland Steel Tool Co 660 E 82nd Cleveland 8 Ohio  
 Damascus Steel Prods Corp Rockford Ill  
 Delaware Tool Steel Corp Wilmington 99 Del  
 Disston (Henry) & Sons Inc Tacony Station Philadelphia 35 Pa  
 Drew (C) & Co Inc Maple St Kingston 7 Mass  
 Dura-Bilt Tool Co Inc 60 North Av Box 216 Natick Mass  
 Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill  
 Fairmount Tool & Forging Co 10611 Quincy Av Cleveland Ohio  
 Forest City Bit & Tool Co 1296 Kishwaukee Rockford Ill  
 Fuller Tool Co 995 Faile Bronx 59 NY  
 General Hdwe Mfg Co Inc 80 White New York 13 NY  
 Genco Tools 1830 N Kostner Av Chicago 39 Ill  
**GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO**  
 Graham (John H) & Co Inc 105 Duane New York 7 NY  
**GREENLEE TOOL CO 2136 TWELFTH ROCKFORD ILL**  
 Heller Bros Co Heller Dr Newscomertown Ohio  
 Hood Bros 4326 Orchard Frankford Philadelphia 24 Pa  
 Krauter & Co Inc 581-18th Av Newark NJ  
 Leetonia Tool Co 142 Main Leetonia Ohio  
 Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass  
 Menhito Tool Co Inc Box 16 Hudson NY  
 Millers Falls Co Greenfield Mass  
 Owatonna Tool Co 341 Cedar Owatonna Minn  
 P & C Hand Forged Tool Co Portland 22 Ore  
 Peck, Stow & Wilcox Co Mill St Southington Conn  
 Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa  
 Proto Tool Co 2209 Santa Fe Los Angeles Cal  
 Rainey-Tools Grove City Pa  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**STANLEY TOOLS DIV STANLEY WKS NEW BRITAIN CONN**  
 Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa  
 Union Hdwe Co Sealand Inc Torrington Conn  
 Vaughan & Bushnell Mfg Co 135 S La Salle Chicago 3 Ill  
 Vlechek Tool Co 3001 E 97th Cleveland 4 Ohio  
 Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass  
 Warren Tool Corp Box 791 Warren Ohio  
 Wilde Drop Forge & Tool Co 2942 Fairmont Av Kansas City 8 Mo  
 Winsted Edge Tool Wks Winsted Conn  
 Woodings-Verona Tool Wks Verona Pa

### ► CHUTES, COAL

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Brady Conveyors Corp 29 W Jackson Chicago 4 Ill  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Conco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Decatur Iron & Steel Co 2nd St W Decatur Ala  
 Donley Bros Co 13910 Mills Av Cleveland 5 Ohio  
 Harris Inc 200 E Long Columbus Ohio  
 Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Texas  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Jeffrey Mfg Co 827 N 4th Columbus 16 Ohio  
 Klauer Mfg Co Dubuque Iowa  
 Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky  
 Richmond Engineering Co 7th & Hospital Richmond 5 Va  
**VENTO STEEL PRODS CO INC 250 COLORADO AV BUFFALO 15 NY**

### ► CHUTES, DUST

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Allington & Custis Mfg Co 1810 Holland Av Saginaw Mich  
 Kluegel (Ernest) & Co 169 W Kellogg Blvd St Paul 2 Minn  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH**

### ► CHUTES, LAUNDRY

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 Copeco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich

Cox (H F) & Co 601 Ottawa Av NW Grand Rapids Mich  
 Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Pa  
 Kluegel (Ernest) & Co 169 W Kellogg Blvd St Paul 2 Minn  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**

### ► CIRCUIT BREAKERS

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
**BULLDOG ELECTRIC PRODS CO 7610 JOSEPH CAMPAU DETROIT 32 MICH**  
 Federal Electric Prods Co 50 Paris Newark 5 NJ  
 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
**GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN**  
 Hathaway & Co Jersey City 3 NJ  
 Trumbull Components Dept General Electric Co Plainville Conn  
**WESTINGHOUSE ELECTRIC CORP BOX 863 PITTSBURGH 30 PA**

### ► CIRCULATORS, HOT WATER HEATING SYSTEMS

**BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL**  
 Piqua Machine & Mfg Co 441 S College Piqua Ohio  
 Taco Heaters Inc 137 South St Providence RI  
**THRUSH (H A) & CO PERU IND**  
 Triplex Heating Specialties Co 242-68 Grant Peru Ind

### ► CLAMPS, "C"

Adjustable Clamp Co 417 N Ashland Av Chicago 22 Ill  
 Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill  
 Batavia Clamp Co Inc 101 Center Batavia NY  
 Billings & Spencer Co 12 Laurel Hartford 1 Conn  
 Black Bros Inc 503-9th Av Mendota Ill  
 Burson Clip System Inc 2447 S Indiana Av Chicago 16 Ill  
 Carpenter & Patterson Inc 1190 Bennington East Boston 28 Mass  
 Cincinnati Tool Co Norwood Cincinnati 12 Ohio  
 Dayton Sure-Grip & Shore Co 504 Kercher Miamisburg Ohio  
 Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio  
 Handy Mfg Co 2432 W Lawrence Chicago 25 Ill  
 Littlestown Hdwe & Foundry Co Littlestown Pa  
 Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY

### ► CLAMPS, CARPENTER STEEL BAR

Adjustable Clamp Co 417 N Ashland Av Chicago 22 Ill  
 Batavia Clamp Co Inc 101 Center Batavia NY  
 Black Bros Inc 503-9th Av Mendota Ill  
 Cincinnati Tool Co Norwood Cincinnati 12 Ohio  
 Francis (Charles E) Co 1385 Etna Av Huntington Ind  
 Handy Mfg Co 2432 W Lawrence Chicago 25 Ill  
 Hartford Clamp Co 466 Park Av East Hartford Conn  
 Malleable Iron Fittings Co 21 Thatcher Bradford Conn  
 National Plaster Block Co 2236 N 27th Philadelphia 32 Pa  
 Phoenix Hdwe Mfg Co Perry & Illinois St Buffalo NY  
 Taylor (James L) Mfg Co 108 Parker Av Poughkeepsie NY

### ► CLAMPS, CONCRETE CONSTRUCTION

Adjustable Clamp Co 417 N Ashland Av Dept L Chicago 22 Ill  
 American Ladder Co 5599 NW 7th Av Miami 38 Fla  
 Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind  
 Batavia Clamp Co Inc 101 Center Batavia NY  
 Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio  
 Dayton Sure-Grip & Shore Co 504 Kercher Miamisburg Ohio  
 Fischer & Hayes Rope & Steel Co 4018 West Lake Chicago Ill  
 M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn  
 Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY

Universal Form Clamp Co 1238 N Kostner Chicago 51 Ill  
 Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

### ► CLAMPS, FILING

Adjustable Clamp Co 417 N Ashland Chicago 22 Ill  
 Disston (Henry) & Sons Tacony Station Philadelphia 35 Pa  
 Hanchett Mfg Co 906 N State Big Rapids Mich

### ► CLAMPS, STEEL

Adjustable Clamp Co 417 N Ashland Av Dept B Chicago 22 Ill  
 Briggs Mfg Co 3001 Miller Av Detroit 11 Mich  
 Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio  
 Judd (H L) Co 87 Chambers New York 7 NY  
 Marvel Equipment Co 1055 Bowen Oakkosh Wis

### ► CLAMPS, WOODWORKERS'

Adjustable Clamp Co 417 N Ashland Chicago 22 Ill  
 Armstrong Bros Tool Co 5300 W Armstrong Chicago 30 Ill  
 Batavia Clamp Co Inc 101 Center Batavia NY  
 Black Bros Co Mendota Ill  
 Cincinnati Tool Co Norwood Cincinnati Ohio  
 Grand Specialties Co 3101 W Grand Chicago 11 Ill  
 Handy Mfg Co 2440 W Lawrence Chicago 25 Ill  
 Hartford Clamp Co 466 Park Av East Hartford Conn  
 Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids Mich  
 Malleable Iron Fittings Co 21 Thatcher Bradford Conn  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Taylor (James L) Mfg Co 128 Parker Av Poughkeepsie NY  
 Union Tool Co 48 E River Orange Mass

### ► CLEANERS, HAND

Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass  
 Carbola Chemical Co 46 Harris Rd Natural Bridge NY  
 Dennis Chemical Co 2701 Papin St Louis Mo  
 Giddens Co Berea Rd & Madison Cleveland 2 Ohio  
 Lasting Prods Co Franklinton Rd Baltimore 23 Md  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
 Oaklite Prods Inc 19 Rector New York 6 NY  
 Pacific Chemical Co 6019 District Blvd Los Angeles 12 Cal  
 Penetone Co 74 Hudson Av Tenafly NJ  
**SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY**  
 Speco Inc 7308 Associate Av Cleveland 9 Ohio

### ► CLEANERS, PAINT BRUSH

Barr (W M) & Co Box 3518 Memphis 6 Tenn  
 Bengel Co 214 St Nicholas Av New York 27 NY  
 Boston Varnish Co 114 Second Everett Mass  
 Boyer Chemical Laboratory Co 2236 S Wash Av Chicago Ill  
 Boyle-Midway Inc 257 Cornelison Av Jersey City 2 NJ  
 Briggs-Maroney Co Inc 85 Paris Everett 49 Mass  
 Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass  
 Christy Co Inc 5040 Dargett Av St Louis 10 Mo  
 Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio  
 Commercial Solvents Corp 17 E 42nd New York 17 NY  
 Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
 Coughlan (G N) Co 29 Spring West Orange NJ  
 Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
 Giddens Co Berea Rd & Madison Cleveland 2 Ohio  
 Hanlon & Goodman Co Belleville NJ  
 Kleen Chemical Co School La E of Ridge Philadelphia 29 Pa  
 Kyanize Paints Inc Second & Boston St Everett 49 Mass  
 Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal  
 Oaklite Prods Inc 19 Rector New York 6 NY  
 Patent Cereals Co Bradford St Geneva NY  
 Penetone Co 74 Hudson Av Tenafly NJ  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Savogran Co 28 India Wharf Boston 16 Mass  
 Schalk Chemical Co 351 E Second Los Angeles 12 Cal



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*Providing Quality Construction at Minimum Cost!*

### SISALKRAFT

for lifelong protection against water — moisture — wind and dust. Tough and waterproof to do dozens of jobs well.

1. For waterproof membrane between fill and slab
2. Under all finished flooring
3. For curing and protecting concrete
4. For protecting temporary buildings
5. For protecting machinery and materials

**FOR SIDEWALLS** — Costs 50% less than "bulk" or "blanket" types of insulation. Provides protection against condensation damage and keeps heat in during winter — and out during summer.

### SISALATION

for combined reflective insulation and vapor-barrier — both surfaces coated with pure aluminum.

**FOR FLOORS** — Applied under or between floor joists, SISALATION provides both insulation and moisture protection . . . at a single low application cost.

**Sisalation plus Sisalkraft provides complete protection**

- |                          |                                |                                       |
|--------------------------|--------------------------------|---------------------------------------|
| 1. Against wood rotting  | 3. Against draft and dust      | 5. Against heat penetration in summer |
| 2. Against paint peeling | 4. Against heat loss in winter |                                       |

### COPPER ARMORED SISALKRAFT

For all concealed flashing and waterproofing — Electro sheet copper — laminated to heavy creped kraft, reinforced with tough fibres.

Provides the protective value of copper at 1/5 the cost of heavy sheets.

**SISALKRAFT** Stock Sizes: 36" — 225 sq. ft. and 500 sq. ft.; 48" — 666 sq. ft.; 60" — 1000 sq. ft. and 1500 sq. ft.; 72" — 1000 sq. ft. and 1800 sq. ft.; 84" — 1000 sq. ft. and 2100 sq. ft.; 96" — 1200 sq. ft. and 2400 sq. ft.

**SISALKRAFT** "Blankets": In widths from 8' 6" to 26' 6" lengths up to 100 ft.

**SISALATION** Stock Sizes: 36" — 500 sq. ft.; 48" — 666 sq. ft.

**COPPER ARMORED** Stock Sizes: Available now in weights of 1, 2, and 3 oz. of copper per sq. ft. Widths from 4" to 60".

WRITE Dept. AB-4, Attleboro, Mass. for Builder's file on application.

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**SISALKRAFT**  
CORPORATION

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San Francisco 5, Calif. • New York 17, N. Y.



Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio  
Steele Mfg Co 3418 Gratiot St Louis 3 Mo  
**STERLING PAINT & VARNISH CO 184 COMMERCIAL MALDEN 48 MASS**  
Tamm Industries Inc 228 N La Salle Chicago 1 Ill  
United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
Wilson-Imperial Co 115 Chestnut Newark 5 NJ  
Wisconsin Laboratories Inc Dousman Wis

### ▶ CLEANERS, PAINT BRUSH, ELECTRIC

Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill

### ▶ CLEANERS, PAINT & VARNISH

DuPont (E I) de Nemours & Co 1067 Market Wilmington 98 Del  
Economics Laboratory Inc 914 Guardian Bldg St Paul 1 Minn  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Glidden Co Heron Rd & Madison Cleveland 2 Ohio  
Lowe Bros 436 E 3rd Dayton 2 Ohio  
Oakite Prods Inc 19 Rector New York 6 NY  
Pacific Chemical Co 6019 District Blvd Los Angeles 12 Cal  
Patent Cereals Co Bradford St Geneva NY  
Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Procter & Gamble Co Gwynne Bldg Cincinnati 1 Ohio  
Savogran Co 28 India Wharf Boston 16 Mass  
Sehalk Chemical Co 351 E Second Los Angeles 12 Cal  
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio  
Socony-Vacuum Oil Co 26 Broadway New York 4 NY  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N La Salle Chicago 1 Ill  
Wesco Waterpaints Inc Matteson Ill

### ▶ CLIPS, BRIDGING & JOISTS, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Conver Steel & Wire Co 621 E 132nd New York 34 NY  
**MARSH CO HASTINGS NEBR**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ CLIPS, CONCRETE

American Expansion Bolt & Mfg Co 909 N Spaulding Chicago Ill  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio  
Heckmann Building Prods Co 4018 West Lake Chicago Ill  
Merwin Mfg Co 19th & German Erie Pa  
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY  
Sommer Metalcraft Co 315 Poston Dr Crawfordsville Ind  
Union Steel Prods Co 242 N Berrien Albion Mich  
Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich  
Winner Industries 1923 Washington Av South Minneapolis 15 Minn

### ▶ CLIPS, FLOOR

Bethlehem Steel Co 701 E Third Bethlehem Pa  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
Dayton Sure-Grip & Shore Co 504 Kercher Minnibus Ohio  
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill  
Hohmann & Barnard Inc 204 E 33rd, New York 16 NY  
Merwin Mfg Co 19th & German Erie Pa  
**NEW MONARCH MACHINE & STAMPING CO 406 SW NINTH DES MOINES 9 IOWA**  
**PENN METAL CO INC 295 E 42ND NEW YORK 17 NY**  
Peterson Prods Co 1013-15 N Bluff Janesville Wis  
Sommer Metalcraft Co 315 Poston Dr Crawfordsville Ind  
**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO**

### ▶ CLIPS, GLAZING FOR STEEL SASH

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
Conco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich  
Harris Inc 200 E Long St Columbus 15 Ohio  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
**LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO OHIO**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Sommer & Maca Glass Machinery Co 3690-08 S Oakley Av Chicago 9 Ill  
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind  
Young (L A) Spring & Wire Corp Detroit Mich

### ▶ CLIPS, PLASTERBOARD, LATH, CEILING, ACOUSTICAL TILE

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**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ CLIPS, PLASTER LATH, SPRING

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**PENN METAL CO INC 295 W 42ND NEW YORK 17 NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ CLIPS, ROOFING

**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
Nova Sales Co Trenton 3 NJ  
Oiljak Mfg Co Depot St Montclair NJ  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Seal-All Clip Co Box 302 4376 W Pasadena Flint Mich

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E G Bldg Fasteners Corp 101 Park Av Room 1133 New York 17 NY  
**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 12 MINN**  
Klein Mfg Co Burlington Iowa  
Peterson Prods Co 1013-15 N Bluff Janesville Wis  
**UPSON CO 43 UPSON PT LOCKPORT NY**  
**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ▶ CLIPS, WIRE ROPE

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn  
**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio  
Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio  
Moline Iron Wks Moline Ill  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Roebing's (John A) Sons Corp Broad & Neroni St Trenton 2 NJ  
US Expansion Bolt Co State & PRR York Pa  
Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

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Altorfer Bros Co 812 W Washington East Peoria 8 Ill  
Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio  
Automatic Washer Co Newton Iowa  
Beh & Co Inc 1150 Broadway New York NY  
Bendix Home Appliances Inc Div Avco Mfg Corp 3300 W Sample South Bend Ind  
Blackstone Corp 1032-88 Allen St Ext Jamestown NY

Brinard Industries Inc 152 S 15th Lindenhurst LI NY  
**BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND OHIO**  
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ  
Chicago Dryer Co 2210-20 N Pulaski Rd Chicago 39 Ill  
Clay Equipment Corp 23 Builder Cedar Falls Iowa  
Conlon Moore Corp 1824 S Laramie Cicero 50 Ill  
**CROSLBY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO**  
Dearborn Stove Co 1709 W Commerce Dallas Tex  
Easy Washing Machine Corp Solar & Spencer St Syracuse 1 NY  
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL ELECTRIC CO MAJOR APPLIANCE CO 310 W LIBERTY LOUISVILLE 2 KY**  
Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind  
Hamilton Mfg Co 1316 18th Two Rivers Wis  
Handy Things Mfg Co North Rowe St Ludington Mich  
Herbster Prods 5309 Euclid Av Cleveland Ohio  
**HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL**  
Howard Mfg Co of Calif 2428 E 56th Los Angeles 58 Cal  
Ironer Div of Speed Queen Corp Algonquin Ill  
Kraus (Walter S) Co 48-02 43rd Woodside LI NY  
Maytag Co Newton Iowa  
Moulton Ladder Mfg Co 2-40 Harding Somerville Mass  
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY  
Ohio Stove Mfg Co 342 W 12th Erie Pa  
Roper (Geo D) Corp Blackhawk Park Av Rockford Ill  
Rotary Clothes Dryer Co Inc 840 Lawrence Allentown Pa  
Scientific Heater Co Cleveland Ohio  
Southern Galvanizing Co 1620 Bush AB Baltimore 30 Md  
Speed Queen Corp Ripon Wis  
**TEMCO INC 4104 PARK AV NASHVILLE 9 TENN**  
Tennessee Enamel Mfg Co 4104 Park Av Nashville 9 Tenn  
**THOR CORP 2115 S 54TH AV CHICAGO 50 ILL**  
Universal Major Electric Appliance Co Box 119 Lima Ohio  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO**  
Whirlpool Corp St Joseph Mich  
Woodenware Prods Corp 122 N 7th St Louis 1 Mo

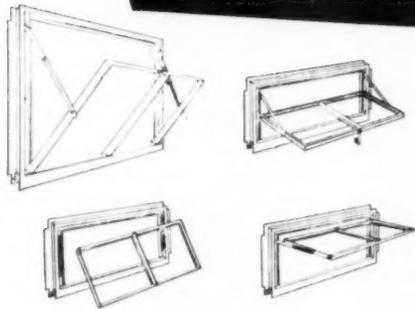
### ▶ CLOTHES LINE HOLDERS, HOOKS & BARS

Aeme Metal Goods Mfg Co 2 Orange Newark 2 NJ  
Boxarty Mfg Corp 2510 N Chico El Monte Cal  
Champion Hdwe Co Geneva Ohio  
Fawcett Mfg Div 1703 Front Cuyahoga Falls Ohio  
Judd (H L) Co 87 Chambers New York 7 NY  
Larson (Charles O) Co Avenue "G" & C & NW Ry Sterling Ill  
Lawrence Bros Sterling Ill  
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
Rep-Loc Prods Co 16110 Brookpark Rd Cleveland Ohio  
Safe Padlock & Hdwe Co Second & Crystal St Lancaster Pa  
**SARGENT & CO 45 WATER ST NEW HAVEN CONN**  
Sharon Hdwe Mfg Co Sharon Pa  
Shuford Mills Inc Drawer 340 Hickory NC  
Southern Galvanizing Co 1620 Bush AB Baltimore 30 Md

### ▶ CLOTHES LINE POLES & POSTS, WOOD, STEEL, IRON

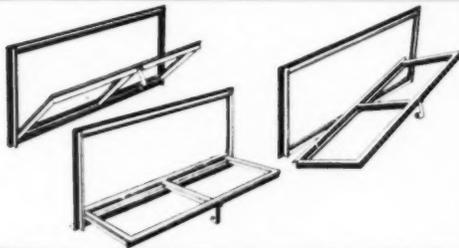
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Atlas Fence Co 2650 Richmond Philadelphia 34 Pa  
Banks Steel Post Co Newark NJ  
Beh & Co Inc 1150 Broadway New York NY  
Century Fence Co Box 466 Waukesha Wis  
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ  
**CINCINNATI IRON FENCE CO 2101 FLORENCE CINCINNATI OHIO**  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Dept AB Cincinnati 23 Ohio  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio

# VENTO *Bonderized* STEEL WINDOWS



## VENTO "CHAMPION" BASEMENT WINDOWS

Effortless operation gives any of three ventilation openings, or sash removal. Double contact with leak-proof watershed sill stops wind and rain. Sturdy 14 gauge frame, electrically welded throughout. Fins integral to jambs for easy installation in block or poured concrete walls. A redesigned cam latch and slotted opening allow greater closing tolerance, insuring positive operation and latching under all conditions. Available in three standard sizes, putty or puttyless glazing.



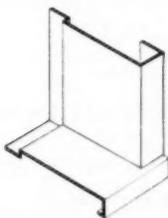
## VENTO "THRIFTY" BASEMENT WINDOWS

A real economy window especially designed to meet the requirements of lower cost housing. An attractive window of sturdy construction, smooth operation, two position ventilation and easy sash removal. Fin flanges at jambs for quick installation. Available in three standard sizes, putty type only.

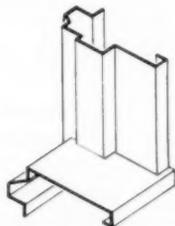


## VENTO CASEMENT WINDOWS

Solid steel sections, cleaned, bonderized and dip coat painted for rust-resisting protection. Extension type hinges for ease in cleaning. Positive cam action locking handle insures double contact weathertight seal around perimeter of the ventilator. All casements drilled and tapped to receive storm sash and screens, operator arm guide channels attached with screws for easy removal and replacement, if necessary; ventilator frames constructed from the same heavy sections as the outside frame. Vento Casement Screens, attach to inside of window and do not interfere with ventilator adjustments. Vento Casement Storm Sash made to completely cover the glass area.



INSIDE



INSIDE & OUTSIDE

## VENTO INSIDE AND OUTSIDE TRIM

Vento Steel Inside and Outside Trim is made of hot rolled carbon steel, head and jamb section 18 gauge, sills 16 gauge, finished with one prime coat of grey paint. They provide speed in erection and save money by eliminating the cost of plaster returns, stools and trim. Vento Inside and Outside Trim fits all standard size casement windows and mullioned windows up to 6 lights in width. All Trim furnished knocked down.

*Also ask about VENTO Formed Steel Lintels (for Block and Brick Construction) VENTO "Champion" Barred Basement Windows; VENTO "Thrifty" Utility and Special Type Windows; VENTO "Champion" Utility and Barn Windows.*

*Write us for  
full information*

**VENTO STEEL PRODUCTS CO., INC.**

247 COLORADO AVE., BUFFALO 15, N. Y.

Harris Inc 299 E Lone Columbus Ohio  
Holtzman & Bernard Inc 201 E 23rd New  
York 16 NY  
**KAWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL**  
Meyers (Fred L) Mfg Co 1176 Heoven Av  
Hamilton Ohio  
Newark Steel Post Co 19 Park Av West Or-  
ange NJ  
Rep-Lac Prods Co 16110 Brookpark Rd  
Cleveland Ohio  
Rotary Clothes Dryer Co Inc 840 Lawrence  
Allentown Pa  
Sawhill Mfg Co Sharon Pa  
Southern Galvanizing Co 1620 Bush AB Bal-  
timore 30 Md

### ▶ CLOTHES LINE PULLEYS

Acme Metal Goods Mfg Co 2 Orange Newark  
2 NJ  
Berkeley Specialties Co 899 Gilman Berkeley  
10 Cal  
S-R Mfg Co Schenectady NY  
Safe Padlock & Hdwe Co Second & Crystal  
St Lancaster Pa  
**SARGENT & CO 45 WATER ST NEW  
HAVEN CONN**  
STANLEY WKS NEW BRITAIN CONN

### ▶ COATINGS, CONCRETE FLOOR

Atlas Mineral Prods Co Mertztown Pa  
Bakelite Co Div of Union Carbide & Carbon  
Corp 30 E 42nd New York 17 NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
Ceresit Waterproofing Corp 3227 S Shields  
Av Chicago 16 Ill  
Flash-Stone Co Inc 3723 Pulaski Av Phila-  
delphia 40 Pa  
Globe Paint Wks Inc 292 Market Williams-  
port 5 Pa  
Hayes Adhesives Co Inc 1770 S Canalport Av  
Chicago 16 Ill  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
Johnson (S C) & Co Inc 1525 Howe Racine  
Wis  
Kedmont Mfg Co Div of General Concrete  
Restoration Co 330 S Dearborn Chicago  
4 Ill  
Lowe Bros 436 E 3rd Dayton 2 Ohio  
Martin-Senour Co 2520 S Quarry Chicago 8  
Ill  
Maxwell & Hitchcock 191 Simpson NW At-  
lanta Ga  
O'Brien Corp 101 N Johnson South Bend 21  
Ind  
Rockford Paint Mfg Co 200 Sayre Rockford  
Ill  
Somelburn (L) & Sons Inc Bldg Prods Div  
404 Fourth Av New York 16 NY  
Tufferete Co Inc 552 Teachout Bldg Des Moines  
9 Iowa  
Vorne Co 147 Meadow Rd Rutherford NJ

### ▶ COATINGS, EMULSIFIED ASPHALT

American Asphalt Roof Co 15th & Blue River  
Kansas City 3 Mo  
American Bitumuls & Asphalt Co 200 Bush  
San Francisco Cal  
**ARMSTRONG CORK CO E LIBERTY ST  
LANCASTER PA**  
Asbestos Co of Texas Div of Philip Carey  
Mfg Co Box 1082 Houston 1 Tex  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
CINCINNATI 15 OHIO**  
Ceresit Waterproofing Corp 3227 S Shields  
Av Chicago 16 Ill  
**CERTAIN-TEED PRODS CORP 120 E LAN-  
CASTER AV ARDMORE PA**  
**FLINTKOTE CO 50 W 50TH NEW YORK  
20 NY**  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
Lowe Bros 436 E 3rd Dayton 2 Ohio  
Old American Roofing Mills 7600 Truman Rd  
Kansas City Mo  
**RUBEROID CO 500 FIFTH AV NEW YORK  
34 NY**  
Spray-O-Bond Co 2255 N Humboldt Milwau-  
kee 12 Wis  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N La Salle Chi-  
cago 1 Ill  
Troyer Driveway Service 2157 S Park Av  
Buffalo 20 NY  
Tufferete Co Inc 552 Teachout Bldg Des  
Moines 9 Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

### ▶ COATINGS, LINOLEUM

Archer-Daniels Midland Co 600 Roanoke Bldg  
Minneapolis 2 Minn  
Chicago Bronze & Color Wks 2639 W Grand  
Av Chicago 12 Ill  
Dennis Chemical Co 2701 Papin St Louis Mo  
Grand Rapids Varnish Corp 1350 Steele Av  
SW Grand Rapids 2 Mich  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
Linsed Oil Prods Co 1107 S Fremont Av  
Alhambra Cal

Lowe Bros 436 E 3rd Dayton 2 Ohio  
Martin-Senour Co 2520 S Quarry Chicago 8  
Ill  
Minnesota Linsed Oil Paint Co Minneapolis  
Minn  
O'Brien Corp 101 N Johnson South Bend 22  
Ind  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Plasti-Kote Co 425 Lakeside Av NW Cleve-  
land 13 Ohio  
Sherwin-Williams Co 101 Prospect Av Cleve-  
land 1 Ohio  
Truseon Laboratories Div Devoc & Reynolds  
Inc Caniff at Grand Trunk Ry Detroit 11  
Mich  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Vorne Co 147 Meadow Rd Rutherford NJ

### ▶ COATINGS, ROOF, ALUMINUM & ASPHALT

Asbesto Mfg Corp 131 Wabash Michigan City  
Ind  
Aluminum Industries Inc 2438 Beekman Cin-  
cinnati 25 Ohio  
American-Marietta Co 101 E Ontario Chi-  
cago 11 Ill  
Aro Co 7301 Bessemer Cleveland 4 Ohio  
Asbestos Co of Texas Div of Philip Carey  
Mfg Co Box 1082 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Av S  
La Crosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE  
CORP 40 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC EAST WALPOLE MASS**  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
CINCINNATI 15 OHIO**  
**CERTAIN-TEED PRODS CORP 120 E LAN-  
CASTER AV ARDMORE PA**  
Coopers Creek Chemical Corp River Rd  
West Conshohocken Pa  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
**FLINTKOTE CO 50 W 50TH NEW YORK  
20 NY**  
Globe Siding Prods Co 2207-51 Schrage Av  
Whiting Ind  
Horn (A C) Co Tenth & 44th Av Long Island  
City 1 NY  
Keystone Asphalt Prods Co 101 E Ontario  
Chicago 11 Ill  
Koppers Co Koppers Bldg Pittsburgh Pa  
Lastik Prods Co Inc 203 Iroquois Bldg Pitts-  
burgh 13 Pa  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Lowe Bros 436 E 3rd Dayton 2 Ohio  
Mendows (W R) Inc 2 Kimball Elgin Ill  
Meta-Kote Corp 517 Gardner Bldg Toledo 4  
Ohio  
National Plywoods Inc 2710 Throp Chicago  
Ill  
Old American Roofing Mills Div of Ruberoid  
Co 500 Fifth Av New York 36 NY  
Pabeo Prods Inc 475 Brannan San Francisco  
Cal  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
**REYNOLDS METALS CO BLDG PRODS  
DIV 2001 S 9TH LOUISVILLE 1 KY**  
**RUBEROID CO 500 FIFTH AV NEW YORK  
34 NY**  
Sheffield Bronze Paint Corp 17814 Waterloo  
Cleveland 19 Ohio  
Sonneborn (L) & Sons Inc Bldg Prods Div  
404 Fourth Av New York 16 NY  
Spray-O-Bond Co 2255 N Humboldt Milwau-  
kee 12 Wis  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Texas Co 135 E 42nd New York 17 NY  
Tremco Mfg Co 8701 Kinsman Rd Cleveland  
14 Ohio  
Tufferete Co Inc 552 Teachout Bldg Des  
Moines 9 Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
United Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 Pa  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Webster (W T) Cement Co 224 Thorndike  
Cambridge 41 Mass

### ▶ COATINGS, ROOF, ASBESTOS

Badger Corrugating Co 1801-39 West Av S  
La Crosse Wis  
Coopers Creek Chemical Corp River Rd  
West Conshohocken Pa  
Devoc & Reynolds Co Inc 787 First Av New  
York 17 NY  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Lastik Prods Co Inc 203 Iroquois Bldg Pitts-  
burgh 13 Pa  
Meta-Kote Corp 517 Gardner Bldg Toledo 4  
Ohio

### ▶ COATINGS, ROOF, ASPHALT

Acme Asbestos Covering & Flooring Co 246  
N Elizabeth Chicago 7 Ill  
Asbestos Asphalt & Insulation Inc 2100 Ful-  
lerton Av Chicago 47 Ill  
Asbestos Co of Texas Div of Philip Carey Mfg  
Co Box 1082 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Ave S  
La Crosse Wis

Breinig Bros 223 Adams Hoboken NJ  
**CALBAR PAINT & VARNISH CO 2617-96  
N MARTHA PHILADELPHIA 2 PA**  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
CINCINNATI 15 OHIO**  
**CELOTEX CORP 120 S LA SALLE CHI-  
CAGO 3 ILL**  
Ceresit Waterproofing Corp 512 S Canal Chi-  
cago 7 Ill  
Chemical Supply Co 3540 Norton Cleveland  
Ohio  
Coopers Creek Chemical Corp River Rd  
West Conshohocken Pa  
Dad & Lad Co New Lenox Ill  
Dewatex Mfg Corp 424 W 42nd New York  
18 NY  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
Empire Varnish Co 2636 E 76th Cleveland 4  
Ohio  
Ford Roofing Prods Co 188 W Randolph  
Chicago 2 Ill  
Glidden Co Berea Rd & Madison St Cleveland  
2 Ohio  
Globe Siding Prods Co 2207-51 Schrage Av  
Whiting Ind  
Gold Seal Asphalt Roofing Co Box 302 Chi-  
cago Heights Ill  
Gordon Chemical Co Inc 1100 Hickory Kansas  
City 7 Mo  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Lastik Prods Co Inc 203 Iroquois Bldg Pitts-  
burgh 13 Pa  
Lasting Prods Co Franklinton Rd Balti-  
more 23 Md  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Mar-Kay Mfg Co 2715 S 2nd St Louis Mo  
Mendows (W R) Inc 2 Kimball Elgin Ill  
National Brush Co Porter St Aurora Ill  
Old American Roofing Mills 7600 Truman  
Rd Kansas City Mo  
Pabeo Prods Inc 475 Brannan San Francisco  
19 Cal  
**PECORA PAINT CO INC 4TH ST & RDG  
RR PHILADELPHIA 40 PA**  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Reilly Tar & Chemical Corp 1615 Merchants  
Bank Bldg Indianapolis 4 Ind  
Sonneborn (L) & Sons Inc Bldg Prods Div  
404 Fourth Av New York 16 NY  
Tufferete Co Inc 552 Teachout Bldg Des  
Moines 9 Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
United Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 Pa  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

### ▶ COATINGS, ROOF, LIQUID, BLACK

Aro Co 7301 Bessemer Cleveland 4 Ohio  
Badger Corrugating Co 1801-39 West Av S  
La Crosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE  
CORP 40 RECTOR NEW YORK 6 NY**  
Coopers Creek Chemical Corp River Rd  
West Conshohocken Pa  
Devoc & Reynolds Co Inc 787 First Av New  
York 17 NY  
Lastik Prods Co Inc 203 Iroquois Bldg Pitts-  
burgh 13 Pa  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Monroe Co Inc 10703 Quebec Av Cleveland 6  
Ohio  
Nourse Oil Co Clinton & Frisco Tracks Kan-  
sas City 8 Mo  
Tremco Mfg Co 8701 Kinsman Rd Cleveland  
Ohio  
Tufferete Co Inc 552 Teachout Bldg Des  
Moines 9 Iowa  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

### ▶ COLORS, CONCRETE, MORTAR, PLASTER

Alabastine Paint Prods 2629 Grand Av Chi-  
cago 12 Ill  
Blue Ridge Tale Co Inc Henry Va  
Ceresit Waterproofing Corp 512 S Canal Chi-  
cago 7 Ill  
Chicago Bronze & Color Wks 2601-75 W  
Grand Av Chicago 12 Ill  
Clinton Metallic Paint Co Arthur St Clinton  
NY  
**COLORCRETE INDUSTRIES INC 563 OT-  
TAWA HOLLAND 1 MICH**  
Fox (M Ewing) Co Inc 136th & Rider Av  
New York 51 NY  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Gibson-Homans Co 2366 Woodhill Rd Cleve-  
land 6 Ohio  
Gordon Chemical Co Inc 1100 Hickory Kan-  
sas City Mo  
**HACHMEISTER INC BOX 357 PITTS-  
BURGH 30 PA**  
Horn (A C) Co Tenth & 44th Av Long  
Island City 1 NY

Interstate Brick Co 3100 S 11th East Box 144 Sugarhouse Sta Salt Lake City 6 Utah Mineral Pigments Corp Washington Blvd Muirkirk 1 Md  
 Minneapolis Builders Supply Co 927 Second Av So Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PECORA PAINT CO INC 4TH ST & RDG RR PHILADELPHIA 40 PA**  
 Ricketson Mineral Color Wks 229 E Wisconsin Av Milwaukee 2 Wis  
 Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
 Smith Chemical & Color Co 55 John Brooklyn 1 NY  
 Smith (George B) Chemical Wks Maple Park Ill  
 Smith (J Lee) & Co 25 Ann New York 7 NY Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
 Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 Truscon Laboratories Div Devco & Reynolds Co Caniff at Grand Trunk Ry Detroit 1 Mich  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Vitro Mfg Co Corliss Sta Pittsburgh 4 Pa  
 Washington Brick & Lime Co Box 2198 Spokane 8 Wash  
 Wesco Waterpaints Inc Matteson Ill  
 Williams (C K) & Co 640 N 13th Easton 2 Pa  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ▶ COLORS, OIL

Boston Varnish Co 114 2nd Everett Mass  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
 Glidden Co Berea Rd & Madison St Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
 Keystone Varnish Co 71 Otsego Brooklyn 31 NY  
 Kyanize Paints Inc Second & Boston Sts Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros 426 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago Ill  
 Minnesota Paints Inc 1101 3rd S Minneapolis 15 Minn  
 Moore (Benjamin) & Co 509 Canal New York NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Sewall Paint & Varnish Co 1009-11 W 8th Kansas City Mo  
 Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio  
 Steelete Mfg Co 3418 Gratiot St Louis 3 Mo  
 Truscon Laboratories Div Devco & Reynolds Co Caniff & Grand Trunk Ry Detroit 11 Mich  
 Vita-Var Corp 10 Commerce Ct Newark NJ

### ▶ COLORS, PAINT

American Varnish Co 1140 N Branch Chicago 22 Ill  
 Benzal Co 214 St Nicholas Av New York 27 NY  
 Boston Varnish Co Everett Sta Boston 49 Mass  
 Cabot (Samuel) Inc 2348 Oliver Bldg Boston 9 Mass  
 Chicago Bronze & Color Wks 2601-75 W Grand Av Chicago 12 Ill  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Elliott Paint & Varnish Co 4525 W Fifth Av Chicago 24 Ill  
 Empire Varnish Co 2636 76th Cleveland 4 Ohio  
 Glidden Co Berea Rd & Madison St Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steel Av SW Grand Rapids 2 Mich  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 Kyanize Paints Inc Second & Boston Sts Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros 424 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Mineral Pigments Corp Washington Blvd Muirkirk 1 Md  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ

**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Sherwin-Williams Co 101 Prospect Av Cleveland Ohio  
 Truscon Laboratories Inc Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa

### ▶ COLUMNS, METAL

Abeo Aluminum & Brass Wks 5235 Griggs Rd Houston 21 Tex  
 Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Brainerd Steel Div Sharon Steel Corp Griswold St Warren Ohio  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
**COFFMAN (R G) CO INC 2809 N ORANGE AVE ORLANDO FLA**  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Fawcoco Mfg Div Falls Stamping & Welding Co 1701 Front Cuyahoga Falls Ohio  
 Hutchinson Mfg Co Box 11 Cedar Grove Sta Shreveport La  
 International Steel Co 1321 Edgar Evansville 7 Ind  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
 Locke Mfg Co Ohio St Lodi Ohio  
 Logan Co 201 Cabell Louisville 6 Ky  
 Loudon Machinery Co 261 Court Fairfield Iowa  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Sawhill Mfg Co Sharon Pa  
 Sharon Steel Co Sharon Pa  
 Starline Inc 300 W Front Harvard Ill  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
 Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

### ▶ COLUMNS, WOOD

**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Goshen Sash & Door Co E Parl Goshen Ind  
 Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
 McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill  
 Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
**RILCO LAMINATED PRODS INC 2591 FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**  
 Schward (A F) Mfg Co 3215 McClure Av Pittsburgh 12 Pa

### ▶ COMPOUNDS, ANTI-FREEZE, CONCRETE

American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio  
 Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
 Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill  
 Flexrock Co 36th & Filbert Philadelphia 4 Pa  
 Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 Sika Chemical Corp 35 Gregory Av Passaic NJ  
 Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
 Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY

### ▶ COMPOUNDS, ANTI-TERMITE

Abesto Mfg Corp 131 Wabash Michigan City Ind  
 Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky  
 C-A Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo  
 Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass  
 Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee 3 Wis  
 Coopers Creek Chemical Corp River Rd West Conshohocken Pa  
 Cre-O-Tox Chemical Co Memphis 12 Tenn  
 Dow Chemical Co 1000 Main Midland Mich  
 Eastman Chemical Prods Inc Kingsport Tenn  
 Eloy Naval Stores Co Inc Box 288 Vidalia Ga  
 Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn  
 Gordon Chemical Co Inc 1100 Hickory Kansas City Mo  
 Haynes Prods Co 4007 Farnum Omaha 3 Neb  
 Hill Termite Control Systems 1200 Commerce Bldg Memphis 4 Tenn  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
 Orkin Exterminating Co Inc 713 W Peachtree NE Atlanta Ga  
 Pabco Prods Inc 475 Brannon San Francisco 19 Cal  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH**  
 Protexol Corp 182 Market Kenilworth N J  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Termitol Co 3567 Bigelow Blvd Pittsburgh Pa  
 Vaccinol Sales Co 2487 Penn Av Memphis 9 Tenn  
 Wood-Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

### ▶ COMPOUNDS, RUST-PREVENTING & REMOVING

American Chemical Paint Co Box 301 Ambler N York NY  
 American Rust Proof Co 302 Butler Brooklyn NY  
 Barr (W M) & Co Box 3518 Memphis 6 Tenn  
 Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass  
 Camp Chemical Co 170 Second Av Brooklyn 15 NY  
 Carbolite Protective Coatings Inc 811 S Main Greensburg Pa  
 Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Evercrete Corp 424 W 42nd New York 36 NY  
**FLINTKOTE CO 50 W 50TH NEW YORK 20 NY**  
 Hollingshead (R M) Corp 840 Cooper Camden 2 NJ  
 Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
 Johnson (S C) & Co Inc 1525 Howe Racine Wis  
 Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 Neilson Chemical Co Bellevue & Benson Sts Detroit 7 Mich  
 Oakite Prods Inc 19 Rector New York 6 NY  
 Parker Rustproof Co 2177 E Milwaukee Detroit 11 Mich  
 Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Protective Coatings Inc Box 3985 Detroit 27 Mich  
 Puritan Chemical Co Peters & Haynes Sts Atlanta 3 Ga  
 Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
 Rusticide Co 3125 Perkins Av Cleveland 14 Ohio  
 Rust-Oleum Corp 2425 Oakton Evanston Ill  
 Smith Oil & Refining Co Kilburn & Smith Sts Rockford Ill  
**SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY**  
 Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY  
 Speco Inc 7308 Associate Av Cleveland 9 Ohio  
 Steelete Mfg Co 3418 Gratiot St Louis 3 Mo  
 Stop-Rust Co Box 2054 Chattanooga 9 Tenn  
 Texas Co 135 E 42nd New York 17 NY  
 Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 Truscon Laboratories Div Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

## ► CONCRETE BLOCK CUBING MACHINES

BESSER MFG CO ELM ST ALPENA MICH  
Stearns Mfg Co Inc 600 E Beecher Adrian Mich

## ► CONCRETE BLOCK DRYING RACKS

BESSER MFG CO ELM ST ALPENA MICH  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH  
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo  
Market Forge Co 35 Garvey Everett 49 Mass

## ► CONCRETE BLOCK MACHINES

Appley (J W) & Son Inc 831 9th N St Petersburg Fla

BESSER MFG CO ELM ST ALPENA MICH  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH

Concrete Equipment Co 514 Ottawa Av Holland Mich  
Dunn (W E) Mfg Co 415 W 23rd Holland Mich

Economy Mfg Co Stone Mountain Ga  
Equipment Engineering Co St Charles Ill  
Fleming Mfg Co Cuba Mo  
Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo

Ford Cement Block Machine Co Cedar Falls Iowa  
General Engines Co Inc 307 Hunter Gloucester NJ

George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla  
Hollystone Co North Hollywood Cal

Kent Machine Co Cuyahoga Falls Ohio  
LITH-I-BAR CO 54 W 8TH HOLLAND MICH  
Mortarless Tile Machine Co Inc 2623 Riverside Dr Los Angeles Cal

Multiplex Machinery Co Div of Multipack Inc Elmhor Ohio  
O K Mfg Co Minneapolis 1 Minn

Reed (R S) Corp Three Rivers Mich  
Stearns Mfg Co Inc 600 E Beecher Adrian Mich  
Tyra (R K) Co Highway 61 Tyra Minn

## ► CONCRETE CURING COMPOUNDS

Adensite Co 37-19 23rd Long Island City NY  
Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio

Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill

Autolene Lubricants Co 1331 W Evans Denver 9 Colo  
CALBAR PAINT & VARNISH CO 2612 N MARSHA PHILADELPHIA 25 PA

Camp Chemical Co Inc 1560-62 62nd Brooklyn 19 NY  
Carter-Waters Corp 2440 Penway Kansas City 8 Mo

Ceresit Waterproofing Corp 3227 S Shields Av Chicago Ill  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH

Copers Creek Chemical Corp River Rd West Conshohocken Pa  
Devoe & Raynolds Co Inc 787 First Av New York 17 NY

Dow Chemical Co 1000 Main Midland Mich  
Evercrete Corp 424 W 42nd New York 36 NY

Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo  
Fort Pitt Chemical Co 26th & Smallman St Pittsburgh 22 Pa

Fulton Bag & Cotton Mills 170 Boulevard Elias Atlanta 3 Ga  
Glidden Co Berea Rd & Madison Cleveland 2 Ohio

Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill

Master Builders Co 7016 Euclid Av Cleveland 3 Ohio  
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn

Ranette Mfg Co Inc 1917 S Broadway St Louis Mo  
Serviced Prods Corp 6051 W 65th Chicago 38 Ill

SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY

Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY  
Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis

Sullivan Co 212 E Trigg Memphis 2 Tenn  
Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY

Truseon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich

Tufcrete Co Inc 562 Teachout Bldg Des Moines 9 Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
Wood Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

## ► CONCRETE FORMS

American Steel Wks 1211 W 27th Kansas City 8 Mo  
Appley (J W) & Son Inc 831 9th N St Petersburg Fla

Art Concrete Wks 362 S Fair Oaks Pasadena Cal  
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS

Bay City Cast Stone Block Co 801 S Henry Bay City Mich  
Bethlehem Steel Co 701 E Third Bethlehem Pa

BIERSACH & NIEDERMEYER CO 1937 N HUBBARD MILWAUKEE WIS  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH

Commercial Shearing & Stamping Inc 5767 W 65th Chicago 38 Ill  
Des Lauriers Column Mould Co 1000 S Keeler Av Chicago Ill

Economy Forms 4301 E 14th Des Moines Iowa  
Fir-Tex Insulating Board Co Porter Bldg Portland Ore

Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo  
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich

Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio  
Harrison Supply Co 5186 Coldwater Rd Flint Mich

IRVINGTON FORM & TANK CO 20 VESEY NEW YORK 7 NY  
Mecho Prods Co Helen & Ella Pittsburgh Pa

Multiplex Machinery Co Div of Multipack Inc Elmhor Ohio  
National Plywoods Inc 2710 Throop Chicago Ill

Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa  
Richmond Screw Anchor Co 816 Liberty Av Brooklyn 8 NY

Reoform Corp 15116 W 8-Mile Rd Detroit 25 Mich  
SONOCO PRODS CO SOUTH ST HARTSVILLE SC

SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY  
U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky

Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill  
Zeidler Concrete Prods Machinery Co Waterloo Iowa

## ► CONCRETE FORM, METAL MATERIALS

Appley (J W) & Son Inc 831 9th N St Petersburg Fla  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL

Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Soule Steel Co 1750 Army San Francisco 24 Cal

Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

## ► CONCRETE FORM TIES

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Bethlehem Steel Co 701 E Third Bethlehem Pa

GATES & SON INC 80 S GALAPAGO DENVER 19 COLO  
Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill

Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
Hohmann & Barnard Inc 294 E 33rd New York 16 NY

M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn  
Richmond Screw Anchor Co Inc 816 Liberty Av Brooklyn 3 NY

Sheffield Steel Corp Sheffield Sta Kansas City City 25 Mo  
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind

SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL  
Universal Form Clamp Co 1238 N Kostner Av Chicago 51 Ill

Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich  
Winner Industries 1923 Washington Av South Minneapolis 15 Minn

## ► CONCRETE HARDENERS

Adensite Co 37-19 23rd Long Island City NY  
American Fluorist Co 4011 Red Bank Rd Cincinnati 27 Ohio

Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Armor Laboratories Inc Commercial & Doran Sts Glendale 3 Cal

Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY  
Blue Ridge Tale Co Inc Henry Va  
Camp Chemical Co 170 Second Av Brooklyn 15 NY

Celadri Corp of New York Columbus Av North Bellmore NY  
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill

COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH  
Connelly Inc 3154 S California Chicago 15 Ill

Devoe & Raynolds Co Inc 787 First Av New York 17 NY  
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio

Evercrete Corp 424 W 42nd New York 36 NY  
Flexrock Co 36th & Filbert Sts Philadelphia 4 Pa

Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis

Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ  
Haynes Prods Co 4097 Farnum Omaha 3 Neb

Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
Kedmont Mfg Co Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill

Lasting Prods Co Franklinton Rd Baltimore 23 Md  
Master Builders Co 7016 Euclid Av Cleveland 3 Ohio

Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
Sika Chemical Corp 35 Gregory Av Passaic NJ

Smooth-On Mfg Co 568-574 Communipaw Av Jersey City NJ  
Sonneborn (L) & Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY

Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis  
STANDARD DRY WALL PRODS INC NEW EAGLE PA

Steele Mfg Co 3418 Gratiot St Louis 3 Mo  
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa

Sullivan Co 212 E Trigg Memphis 2 Tenn  
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
Truseon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich

Tuferete Co Inc 533 Teachout Bldg Des Moines 9 Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

Vita-Var Corp 10 Commerce Ct Newark NJ  
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

## ► CONCRETE JOIST MACHINES

Appley (J W) & Son Inc 831 9th N St Petersburg Fla  
BESSER MFG CO ELM ST ALPENA MICH  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH

LITH-I-BAR CO 54 W 8TH HOLLAND MICH

## ► CONCRETE MIXERS, MORTAR, ETC.

Air Placement Equipment Co 1009-11 W 24th Kansas City 8 Mo  
Anchor Mfg Co 2932 W 26th Chicago 23 Ill

Appley (J W) & Son Inc 831 9th N St Petersburg Fla  
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
COLORCRETE INDUSTRIES INC 563 OT-TAWA HOLLAND I MICH

CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA  
Dunn (W E) Mfg Co 415 W 23rd Holland Mich

Essick Mfg Co 1950 S Santa Fe Los Angeles Cal  
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo

Foote (J B) Foundry Co Fredericktown Ohio  
General Engines Co Inc 307 Hunter Gloucester NJ

Gilson Bros Co Box 315 Fredonia Wis  
GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO

JAEGER MACHINE CO 500 W SPRING COLUMBUS 16 OHIO  
Kriegerhoecker Mfg Co 603 Liberty Jackson Mich  
Kwik-Mix Concrete Mixer Co Port Washington Wis

Mixermobile Mfrs 8027 NE Killingsworth  
Portland 20 Ore  
**MULLER MACHINERY CO INC BOX 248  
METUCHEN 4 NJ**  
Northwest Metal Prods Inc 55 Spokane Se-  
attle 4 Wash  
O K Mfg Co Minneapolis 1 Minn  
Smith (T L) Co 2835 N 32nd Milwaukee Wis  
Worthington Corp S Second St Plainfield NJ

► **CONCRETE MIXERS, TRANSIT**

Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 22 Pa  
Chain Belt Co 1600 W Bruce Milwaukee 1  
Wis  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**  
Hercules Steel Prods Corp Gallion Ohio  
**JAEGER MACHINE CO 500 W SPRING  
COLUMBUS 16 OHIO**  
Rapids Machinery Co 889-11th Marion Iowa  
Smith (T L) Co 2835 N 32nd Milwaukee Wis  
Willard Concrete Machinery Co Ltd Lynwood  
Cal  
Worthington Corp S Second St Plainfield NJ

► **CONCRETE PAVERS**

Chain Belt Co 1600 W Bruce Milwaukee 1  
Wis  
Koehring Co 3026 W Concordia Av Milwau-  
kee 16 Wis  
Worthington Corp S Second St Plainfield NJ

► **CONCRETE PIPE MACHINES**

Appley (J W) & Son Inc 831 9th N St  
Petersburg Fla  
Concrete Pipe Machinery Co W 1st & George  
Box M-1000 Sioux City 18 Iowa  
Quinn Wire & Iron Wks 1200 Cedar Rd  
Boone Iowa  
Universal Concrete Pipe Co 297 S High  
Columbus 15 Ohio  
Zeidler Concrete Prods Machinery Co  
Waterloo Iowa

► **CONCRETE PLANTS, CENTRAL  
MIXING**

Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 22 Pa  
Butler Bin Co 945 Blackstone Av Waukesha  
Wis

Chain Belt Co 1600 W Bruce Milwaukee 1  
Wis  
Concrete Transport Mixer Co 4985 Fyler Av  
St Louis 9 Mo  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**  
Erie Steel Construction Co Giest & N P RR  
Erie Pa  
Johnson (C S) Co Box 71 Champaign Ill  
Koehring Co 3026 W Concordia Av Milwau-  
kee 16 Wis  
Noble Co 1860 7th Oakland 20 Cal  
Worthington Corp S Second St Plainfield NJ

► **CONCRETE PRODUCTS, PLANT  
MIXERS**

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Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 30 Pa  
Carter-Waters Corp 2440 Pennway Kansas  
City 8 Mo  
Chain Belt Co 1600 W Bruce Milwaukee 1  
Wis  
Concrete Transport Mixer Co 4985 Fyler Av  
St Louis 9 Mo  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**  
Dodson Mfg Co Inc 1463 Barwise Wichita 2  
Kans  
Dunn (W E) Mfg Co 415 W 23rd Holland  
Mich  
Fleming Mfg Co Cuba Mo  
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo  
George (F C) Machine Co 190 S Westmore-  
land Dr Orlando Fla  
**JAEGER MACHINE CO 500 W SPRING  
COLUMBUS 16 OHIO**  
Johnson (C S) Co Box 71 Champaign Ill  
Kent Machine Co Cuyahoga Falls Ohio  
Mulliplex Machinery Co Div of Multipack Inc  
Elmore Ohio  
Smith (T L) Co 2835 N 32nd Milwaukee Wis  
Stearns Mfg Co 600 E Beecher Adrian Mich  
Supermix 401 Grace Adrian Mich  
**WINSLOW GOVERNMENT STANDARD  
SCALE WKS INC 25TH & HAYTHORNE  
AV TERRE HAUTE IND**  
Worthington Corp S Second St Plainfield NJ

► **CONCRETE PRODUCTS PLANTS**

Anchor Concrete Machinery Co 1191 Fair-  
view Columbus 12 Ohio  
Appley (J W) & Son Inc 831 9th N St  
Petersburg Fla

**BESSER MFG CO ELM ST ALPENA MICH**  
Blaw-Knox Equipment Div Blaw-Knox Co  
Farmers Bank Bldg Pittsburgh 30 Pa  
Butler Bin Co 945 Blackstone Av Waukesha  
Wis  
**COLORCRETE INDUSTRIES INC 563 OT-  
TAWA HOLLAND 1 MICH**  
Equipment Engineering Co St Charles Ill  
Erie Steel Construction Co Giest & N P RR  
Erie Pa  
Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo  
George (F C) Machine Co 190 S Westmore-  
land Dr Orlando Fla  
Johnson (C S) Co Box 71 Champaign Ill  
O K Mfg Co Minneapolis 1 Minn  
Stearns Mfg Co Inc 600 E Beecher Adrian  
Mich

► **CONCRETE SEALERS**

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Blvd Cleveland Ohio  
American Crayon Co Sandusky Ohio  
**AMERICAN FLOOR SURFACING MACHINE  
CO 527 ST CLAIR TOLEDO 3 OHIO**  
American Fluoresit Co Inc 4011 Red Bank  
Rd Cincinnati Ohio  
Atlas Mineral Prods Co Mertztown Pa  
Camp Co Inc 6958 S State Chicago 21 Ill  
Ceresit Waterproofing Corp 3227 S Shields  
Av Chicago 16 Ill  
Claronex Prods Inc 239 Java Brooklyn 22  
NY  
**COLORCRETE INDUSTRIES INC 563 OT-  
TAWA HOLLAND 1 MICH**  
Dennis Chemical Co 2701 Papin St Louis Mo  
Fort Pitt Chemical Co 26th & Smallman  
Pittsburgh 22 Pa  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
Johnson (S C) & Co Inc 1525 Howe Racine  
Wis  
Kedmont Mfg Co Div of General Concrete  
Restoration Co 330 S Dearborn Chicago 4  
Ill  
Martin-Senour Co 2520 S Quarry Chicago 8  
Ill  
O'Brien Corp 101 N Johnson South Bend 21  
Ind  
Ohio Akona Co 1416 Victoria Av Lakewood 7  
Ohio  
Re-Nu-It Corp 424 W 42nd New York 36 NY  
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about 4 1/2 lbs. Equipped with punch for shingles.

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# Weldwood DOORS assure permanent beauty

### Novoply® Sliding Door Units

- Precision built Novoply sliding door units are prepackaged ready to install.
- Novoply is the flattest, most dimensionally stable wood panel made.
- Can be painted or stained to match interiors or left natural.
- Novoply sliding door units are free from warping and sticking. Units are available in many sizes and are easy to install.

### Weldwood "Stay-Strate"® Flush Doors

- For interior and exterior installations.
- Core is Weldrok® the incombustible mineral composition which gives 25% greater insulation than lumber core door.
- Specifications: Stock thickness—1¾" in wide range of standard sizes. Face veneers: oak, birch, walnut, Korina® and other hardwoods.

**GUARANTEE:** This door, when properly installed under normal service conditions, is guaranteed against warping for the life of its installation. Should warping occur, it will be replaced without charge.

### Weldwood Staved Lumber Core Door

- For interior or exterior use.
- Won't warp, cup, shrink, swell or delaminate.
- Specifications: Stock thickness—1¾" (1¾" and 2¼" on special order.) Stall doors available—1¾" and 1¼". Face Veneers—birch, Korina®, mahogany, rift oak, walnut and other hardwoods in wide selection of standard sizes.

FEATURES	BENEFITS	APPLICATIONS	SPECIFICATIONS
<p><b>WELDWOOD FIRE DOOR</b></p> <p>A beautiful wood veneered fire door bearing Underwriters' label, approved for class B and C openings. Also approved by Factory Mutual Labs. Incombustible mineral core is banded with birch treated with Class A fireproofing agent. Lightest fire door on the market. Guaranteed against warping or binding for life of installation.</p> <p>Patent No. 2,593,050</p>	<p>Guaranteed fire protection Low maintenance Lightweight for ease of opening and closing</p>	<p>Ideal for homes with attached garages, institutions, offices, hotels Interior and exterior use</p>	<p>For interior and exterior use STOCK THICKNESS: 1¾" Available in a wide range of sizes, and face veneers of birch and other select hardwoods—domestic and foreign</p>
<p><b>SOLID CORE DOOR</b></p> <p>Permanent dimensional stability assured because of exacting, scientific construction. Waterproof glued. Virtually warp-free, non-binding.</p>	<p>Good-looking Inexpensive</p>	<p>For both interiors and exteriors Wherever solid wood core desired</p>	<p>For interior and exterior use Available in wide range of standard sizes, with faces of birch, mahogany, walnut, oak and Korina STOCK THICKNESS: 1¾", also 2¼"</p>
<p><b>HOLLOW CORE FLUSH DOOR</b></p> <p>Lightweight, durable—won't sag, warp or buckle 40 per cent lighter than standard panel doors Long life—slam tested 25,000 times Popularly priced, installed in thousands of houses</p>	<p>Lightweight for ease of opening and closing Economical—can be finished natural or painted</p>	<p>For interior use in sliding doors, closets</p>	<p>For interior use only STOCK THICKNESS: 1¾"; 1¼" Other sizes, widths and openings cut to special order Available in wide range of standard sizes—faces of gum, birch, oak, walnut, and mahogany</p>
<p><b>CUPBOARD DOORS</b></p> <p>Available in wide range of stock types including NOVOPLY 5-ply Weldwood Cupboard stock or larger-size panels. Solid lumber core stock available, banded on four sides. Permits trimming on each dimension; will not warp, sag, or bind</p>	<p>Beautiful, natural grain requires no finishing, easy to install. Can be painted, stained</p>	<p>Cupboard doors for cabinets in kitchens, bathrooms, bedrooms</p>	<p>Available in wide variety of sizes, veneers and stock faces and thicknesses Veneers available: birch, pine and Douglas Fir or solid NOVOPLY Stock available with either one or two good faces and grades</p>
<p><b>FIR AND PINE DOORS</b></p> <p>All standard designs Easy to install and finish Carefully made, thoroughly inspected interior and exterior applications</p>	<p>Low in cost, attractive looking, matches pine paneling</p>	<p>Ideal for use in homes, offices</p>	<p>Available in wide range of sizes and thicknesses on order</p>
<p><b>WELDWOOD PARTITION PANELS</b></p> <p>Ready-made attractive wood partitions with incombustible mineral core—lightweight, durable Faced with a choice of beautiful hardwoods Simple to install Guaranteed for the "Life of Installation"</p>	<p>Cuts noise 37 decibels Warp-free, stable, no twisting</p>	<p>Homes, offices, schools, apartments, hospitals, showrooms</p>	<p>Wood veneered on both sides. Different veneers can be specified for either face of panel. Panels available in all woods THICKNESS: 1¾" All sizes up to 48" x 96" or 96" x 48" available on order VENEERS: Can be obtained with faces of birch, oak, walnut, Korina, mahogany, elm and other fine woods</p>

**GUARANTEE:** Weldwood Fire Doors, when properly installed under normal service conditions, are guaranteed against warping or binding in an opening for the LIFE of the installation. Any door found defective will be replaced without charge... INCLUDING ALL LABOR COSTS INVOLVED.

There is a  
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for every  
part of  
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- Finishing Materials and Adhesives
- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
- Counters, Table Tops and Bars
- Doors
- Sub-flooring
- Bathrooms and Kitchens
- Hardboards

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Distributing units in 60 Principal Cities • Dealers Everywhere

## QUICK FACTS FOR BUILDERS

# Weldwood QUALITY HARDBOARD for every building need

### Top Quality

Each Weldwood Hardboard panel is manufactured by a strict quality controlled method that provides exact uniformity in thickness, size, density and hardness. It's quality you can depend on never to vary. There is no finer hardboard made.

### Special Features

Weldwood Hardboards are rugged, all-wood fiber panels with unusual strength and durability—completely free of imperfections. They won't crack, chip, dent or splinter. They are easy to fabricate and finish beautifully.

### Immediate Delivery

You get fast, on-schedule delivery of every type of Weldwood Hardboard from your lumber dealer or through any of the conveniently located United States Plywood or U.S.-Mengel Plywoods distributing units in 60 principal cities.

A size and type for every need from ONE reliable source—**Weldwood!**

**WELDWOOD STANDARD HARDBOARD** . . . For walls, ceilings and other interior uses. Has a hard, smooth surface on one side. Excellent finishing qualities . . . easily worked.

**WELDWOOD TEMPERED HARDBOARD** . . . For exterior applications or where hard usage is encountered. Impregnated with special tempering compound for greater strength, abrasion-resistance and moisture-resistance.

**WELDWOOD BLACK TEMPERED HARDBOARD** . . . This is Weldwood Tempered Hardboard to which a black dye has been added.

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**WELDWOOD HARDPLY** . . . great structural strength . . . for cupboard doors, bench tops, available in thicknesses of  $\frac{1}{4}$ ",  $\frac{3}{8}$ " and  $\frac{1}{2}$ ".

In wide range of sizes from

4' x 16' to 4' x 1'

Exterior Siding from

12" x 96" to 24" x 192"

Dekalux from

5' x 16' to 4' x 1'

Thickness range from

1/10" x 1/4"

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Product  
for every  
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- Concrete forms
- Wall and Roof Sheathing
- Finishing Materials and Adhesives
- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
- Counters, Table Tops and Bars
- Doors
- Sub-flooring
- Bathrooms and Kitchens
- Hardboards

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 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
 Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
 Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
 Teusson Laboratories Div Devos & Raynolds Co Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
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 Master Vibrator Co 198 Davis Dayton Ohio  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**  
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 Federal Electric Prods Co 40 Paris Newark 5 NJ  
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 Trane Co 3rd & Cameron La Crosse Wis  
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 Bodinson Mfg Co 2403 Bayshore Blvd San Francisco Cal  
 Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio  
 Bosworth Mfg Co 6723 Denison Cleveland 2 Ohio  
 Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
 Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
 Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo  
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 Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
 Buschman (E W) Co Inc Clifton Av at Winston Pl Cincinnati 32 Ohio  
 Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Cyclone Fence Div American Steel & Wire Co Waukegan 1 Ill  
 Fairfield Engineering Co 324 Barnhart Marion Ohio  
 Filer & Stowell Co 147 E Becher Milwaukee 7 Wis  
 Haiss (George) Mfg Co Inc Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY  
 Jeffrey Mfg Co 827 N 4th Columbus 16 Ohio  
 Lamson Corp 303 Lamson Syracuse 1 NY  
 Link Belt Co 300 W Pershing Rd Chicago Ill  
 Mathews Conveyor Co 190 Tenth Ellwood City Pa  
**MULKEY (SAM) CO 1621 LOCUST KANSAS CITY 8 MO**  
 New London Engineering Co 1700 Division New London Wis  
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 Blatt (Frank I) Co Inc Rattlesnake Fla  
 Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio  
 Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
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 Chase Turbine Mfg Co Orange Mass  
 Corley Mfg Co Clifton Hills Chattanooga 1 Tenn  
 Equipment Engineering Co St Charles Ill  
 Fleming Mfg Co 4985 Fyler Av St Louis 9 Mo  
 General Conveyor & Mfg Co 3601 Salena St Louis 18 Mo  
 George (F C) Machine Co 100 S Westmoreland Dr Orlando Fla  
 Godfrey Conveyor Co 1301 Wolf Elkhart Ind  
 Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Montgomery County Pa  
 Johnson (C S) Co Box 71 Champaign Ill  
 Lamson Corp 303 Lamson Syracuse 1 NY  
 Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis  
 Logan Co 201 Cabel Louisville 6 Ky  
 Market Forge Co 35 Garvey Everett 49 Mass  
 Mar-Rail Conveyor Co 560 York Av Pawtucket RI  
 Media Machine Wks Inc 620 Park Av Media Pa  
 Metzger Conveyor Co 413 Douglas NW Grand Rapids 4 Mich  
 O K Mfg Co Minneapolis 1 Minn  
 Oliver Corp Farquhar (A B) Div 142 N Duke York Pa  
 Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich  
 Reno 4372 W Ogden Chicago 23 Ill  
 St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn  
 Standard Conveyor Co 315 NW 2nd N St Paul 9 Minn  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
 Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn  
 Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa

### ► CONVEYORS, OVERHEAD

Alvey-Ferguson Co Inc North & Disney Cincinnati 9 Ohio  
 Brady Conveyors Corp 20 W Jackson Blvd Chicago 4 Ill

Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 22 Ohio  
 Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E. 289th Wickliffe Ohio  
 Fairfield Engineering Co 324 Barnhart Marion Ohio  
 Gifford-Wood Co 1 Hudson Av Hudson NY  
 Godfrey Conveyor Co 1301 Wolf Elkart Ind Hewitt Rubber Div Hewitt-Robbins Inc Central & Kensington Aves Buffalo 5 NY  
 Johnson (C S) Co Box 71 Champaign Ill  
 Lamson Corp 303 Lamson Syracuse 1 NY  
 Landahl Conveyor Co Box 1985 Columbus 16 Ohio  
 Link-Belt Co 301 W Pershing Rd Chicago Ill  
 Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis  
 Louden Machinery Co 261 Court Fairfield Iowa  
 Mathews Conveyor Co 190 Tenth Ellwood City Pa  
 Ney Mfg Co 948 High Av SW Canton 4 Ohio  
 Northern Conveyor Co Western Av Janesville Wis  
 Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL.**  
 Starline Inc 300 W Front Harvard Ill  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ► CONVEYORS, PORTABLE BELT

Alvey-Ferguson Co Inc North & Disney Cincinnati 9 Ohio  
 American Conveyor Co 1115 W Adams Chicago 7 Ill  
 Atlas Conveyor Co First & 15th Clintonville Wis  
 Barler-Greene Co 400 N Highland Aurora Ill  
 Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill  
 Bonded Scale & Machine Co 2176 S Third Columbus 7 Ohio  
 Bosworth Mfg Co Mills Rd Avon Ohio  
 Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
 Buschman (E W) Co Inc Clifton Av at Winton Pl Cincinnati 22 Ohio  
 Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo  
 Fairfield Engineering Co 324 Barnhart Marion Ohio  
 Ferguson (Harry J) Co 141 West Av Jenkintown Pa  
 Godfrey Conveyor Co 1301 Wolf Elkhart Ind Haisis (George) Mfg Co Inc Div Pettibone Mulliken Corp 350 Fifth Av New York 1 NY  
 Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 (Montgomery County) Pa  
 Hewitt Rubber Div Hewitt-Robbins Inc Central & Kensington Aves Buffalo 5 NY  
 Howry-Berg Steel & Iron Wks 2949 N Speer Denver 11 Colo  
 Kewanee Machinery & Conveyor Co Kewanee Ill  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL.**  
 Lake Shore Engineering Co E Magnetic St Iron Mountain Mich  
 Lamson Corp 303 Lamson Syracuse 1 NY  
 Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis  
 Mar-Rail Conveyor Co 560 York Av Pawtucket RI  
 Mathews Conveyor Co 190 Tenth Ellwood City Pa  
 Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich  
**MULKEY (SAM) CO 1621 LOCUST KANSAS CITY 8 MO**  
 New London Engineering Co 1700 Division New London Wis  
 Noble Co 1860 7th Oakland 20 Cal  
 Northern Conveyor Co Western Av Janesville Wis  
 Oliver Corp Farquhar (A B) Div 142 N Duke York Pa  
 Power-Pack Conveyors Cleveland 10 Ohio  
 Rapids-Standard Co Inc Rapistan Bldg 144 Trowbridge NW Grand Rapids 2 Mich  
 Red Cap Co Div Harrison-Sanders Inc 15 Maple Av Paoli Pa  
 St Paul Foundry Mfg Co 500 Como Av St Paul 3 Minn  
 Standard Conveyor Co 315 NW Second N St Paul 3 Minn  
 Universal Hoist & Mfg Co Cedar Falls Iowa  
 Western Foundry Co 2400 SW Water Portland 1 Ore  
 Willard Concrete Machinery Co Ltd Lynwood Cal

### ► COOLERS, WATER, ELECTRIC

Brunner Mfg Co 1821 Broad Utica 1 NY  
 Dearborn Stove Co 1700 W Commerce Dallas Tex  
 Ebeco Mfg Co 401 W Town Columbus 8 Ohio  
 Frick Co 320 Broadway Waynesboro Pa

Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ**  
 Haws Drinking Faucet Co Fourth & Page Berkeley 10 Cal  
**KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH**  
 National Gas Equipment Co Inc Box 443 Terrell Tex  
 Sunroc Co Glen Riddle Pa  
 Taco Heaters Inc 137 South Providence RI  
 Taylor (Halsey W) Co 1259 N Park Av Warren Ohio  
 Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO**  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Westinghouse Electric Corp 653 Page Blvd Springfield 2 Mass

### ► COPPER STRUCTURAL SHAPES

**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
 Giehner Inc 1900 Kendall NE Washington 2 DC  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY

### ► CORD, PLASTIC

**HUNTER DOUGLAS CORP 150 BROADWAY NEW YORK 38 NY**  
 Parante Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind  
**SAMSON CORDAGE WKS 89 BROAD BOSTON 10 MASS**  
 Silver Lake Co 60 Batterymarch Boston 10 Mass

### ► CORD, RUBBER

**GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN**  
 Parante Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind

### ► CORNICES, METAL

**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
 Edwards Mfg Co Fifth & Butler Cincinnati 2 Ohio  
 Meyer (F) & Bro Co Peoria Ill  
**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**

### ► CORNERS, SIDING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC 47 WILSON EAST WALPOLE MASS**  
 Bugher Mfg Co 211 S Main Kokomo Ind  
 Capilano Timber Co Ltd Box 608 Vancouver BC Canada  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Edwards Mfg Co 427 Culvert Cincinnati 2 Ohio  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
 Harris Inc 200 E Long Columbus Ohio  
**INLAND STEEL PRODS CO 4105 W BURNHAM MILWAUKEE 1 Wis**  
 Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa  
 Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Klauer Mfg Co 9th & Washington Dubuque Iowa  
 LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
 Meldrum Mfg & Engineering Co 473 N Cleveland Av St Paul 4 Minn  
 Merwin Mfg Co 19th & German Erie Pa  
 Northwest Metal Prods Inc 55 Spokane Seattle Wash  
 Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
**REYNOLDS METALS CO BLDG PRODS DIV 2001 NINTH LOUISVILLE 1 KY**  
**ST PAUL CORRUGATING CO 3 W WATER ST PAUL 1 MINN**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Wells Specialty Co North Liberty Ind  
 Wheeling Corrugating Co Wheeling W Va

### ► COUNTER DISPLAY CABINETS

Braided Industries Inc 152 S 16th Lindenhurst 14 NY  
 Curtis Cos Inc American Plywood Div New London Wis  
 Engineers Plywood Prods Co Box 1326 Tacoma Wash  
 Equipto Div Aurora Equipment Co Aurora Ill  
 Grammes (L F) & Sons Inc 380 Union Allentown Pa  
 Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich  
 Heller (W C) & Co 1050 Bryant Montpelier Ohio  
 Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
 Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
 Precision Equipment Co 3714 N Milwaukee Av Chicago 41 Ill  
 Reflector Hdwe Corp 2245 S Western Av Chicago Ill  
 Rustic Furniture Co Inc Williamstown NJ  
 Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio  
 Stackbin Corp 1079 Main Pawtucket RI  
 Universal Steel Equipment Corp 32-35 47th Av New York 1 NY  
 Warren (J D) Mfg Co Montpelier Ohio

### ► COVE, MOLDED PLYWOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Keller Prods Inc 41 Union Manchester NH  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Pyramid Mouldings Inc 5353 W Armstrong Chicago 30 Ill  
 U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**

### ► COVERING, FABRIC WALL

Columbus Conted Fabrics Corp Seventh & Grant Aves Columbus 16 Ohio  
 Standard Conted Prods Inc 67 W 44th New York 36 NY  
**WIGGIN'S (H B) SONS CO 56 ARCH BLOOMFIELD NJ**

### ► COVERING, PIPE, ASBESTOS

Acme Asbestos Covering & Flooring Co 240 N Elizabeth Chicago 7 Ill  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex  
**CAREY (PHILIP) CO 316 S WAYNE CINCINNATI 15 OHIO**  
 Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill  
 Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
 Ebert Magnesia Mfg Co Crawford & County Line Rd Valley Forge Pa  
 Grant (Wilson) Inc 141 W Jackson Blvd Chicago Ill  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KEESLEY & MATTISON CO BUTLER AV AMBLER PA**  
 Pabco Prods Inc 425 Brannan San Francisco 19 Cal  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Sall Mountain Co Box 777 Hamilton Ohio  
 Smith & Kanzler Inc E Linden Av Linden NJ  
 Standard Asbestos Mfg Co 860 Evergreen Av Chicago 22 Ill

### ► COVERINGS, PIPE, CLOTH

Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
**DANIELS (C R) INC 4900 BLOCK WETHERSVILLE RD HILLSDALE BALTIMORE 16 MD**  
 Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

### ► COVERINGS, PIPE, FIBROUS GLASS

Fiber-Glass Div Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio  
**OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO**  
 Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill

### ► COVERINGS, PLASTIC FOR METAL

Dennis Chemical Co 2701 Papin St Louis Mo  
 Evercrete Corp 424 W 42nd New York 36 NY

Gits Molding Corp 4600 W Huron Chicago 41 Ill  
Hallinghead (R M) Corp 540 Cooper Camden 2 NJ  
Tufcrete Co Inc 552 Touchout Bldg Des Moines 9 Iowa  
**WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX**

### COVERINGS, RESILIENT WALL

Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ  
Tile-Text Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa

### COVERINGS, WALL, WOOD-ON-CLOTH

**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**

### COVERINGS, VINYL PLASTIC, FLOOR

Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex  
Camp Co Inc 6958 S State Chicago 21 Ill  
**GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON 16 OHIO**  
**HACHMEISTER INC BOX 357 PITTSBURGH 30 PA**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
Sandura Co Inc Architects Bldg 17th & Sansom Philadelphia 3 Pa  
Sloane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ  
Tile-Text Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
**WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX**

### COVERS, BATHTUB

Protectub Inc 71 Ludlow New York 2 NY

### COVERS, MANHOLE & CISTERN

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
Logan Co 201 Cabel Louisville 6 Ky  
Western Foundry Co 2400 SW Water Av Portland 1 Ore

### CRANES, CRAWLER & TRUCK MOUNTED

Bay City Shovels Inc 2611 Center Bay City Mich  
**BUCYRUS-ERIE CO S MILWAUKEE WIS**  
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
Kwik-Mix Co Port Washington Wis  
Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa  
Northwest Engineering Co 135 S LaSalle Chicago 3 Ill  
Schild Bantam Co 221 Park Waverly Iowa  
Wood (Gary) Industries Inc Michigan Blvd Wayne Mich

### CRANES, OVERHEAD TRAVELING

American Bridge Div U S Steel Corp 525 William Penn Pl Pittsburgh 30 Pa  
Chicago Tramrail Co 4000 W Washington Blvd Chicago Ill  
Chisholm Moore Hoist Div Columbus McKinon Chain Corp Fremont Av Tonawanda NY  
Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Conco Building Prods Inc Box 111 Mendota Ill  
Detroit Hoist & Machine Co 8207 Morrow Detroit 11 Mich  
Downs Crane & Hoist Co 540 W Vernon Av Los Angeles 37 Cal  
Electro Lift Inc 30 Church New York 7 NY  
Erie Steel Construction Co Giest & N P RR Erie Pa  
**HARNISCHFEGGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS**

Lane Mfg Co Montpelier Vt  
Louden Machinery Co 1120 Broadway Fairfield Iowa  
Reading Crane & Hoist Corp 4100 Adams Reading Pa  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio  
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn  
Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich  
Shepard Niles Crane & Hoist Co 410 Schuyler Av Montour Falls NY  
Whiting Corp 16516 Lathrop Av Harvey Ill  
Wright Hoist Div American Chain & Cable Co York Pa

### CRANES, POWER INDUSTRIAL

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn  
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn  
Elwell-Parker Electric Co 4156 St Clair Av Cleveland 3 Ohio  
**HARNISCHFEGGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS**  
Hyster Co 2979 NE Clackamas Portland 8 Ore  
Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind  
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
Lewis-Shepard Prods Inc 125 Walnut Watertown 72 Mass  
Market Forge Co 35 Garvey Everett 49 Mass  
Northwest Engineering Co 135 S LaSalle Chicago Ill  
Ross Carrier Co 331 Miller Harbor Benton Harbor Mich  
Shepard Niles Crane & Hoist Corp 410 Schuyler Av Montour Falls NY  
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY

### CRANES, TRACTOR & TRUCK

American Hoist & Derrick Co 635 Robert St Paul 4 Minn  
Bay City Shovels Inc 2611 Center Bay City Mich  
Bradley Machine Co Middletown NY  
**BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS**  
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn  
**HARNISCHFEGGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS**  
Hough (Frank G) Co 811 Sunnyside Av Libertyville Ill  
Hyster Co 2979 NE Clackamas Portland 8 Ore  
Koehring Co 3026 W Concordia Av Milwaukee 61 Wis  
Link-Belt Speeder Corp 2101 Sixth SW Cedar Rapids Iowa  
Market Forge Co 35 Garvey Everett 49 Mass  
Northwest Engineering Co 135 S LaSalle Chicago Ill  
**OLIVER CORP 400 W MADISON CHICAGO 6 ILL**  
Osgood-General Cheney Av Marion Ohio  
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport 1 Conn  
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY  
Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY  
Taylor Machine Wks Louisville Miss

### CRANES & SHOVELS, POWERED

**ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS**  
American Hoist & Derrick Co 635 Robert St Paul 4 Minn  
Bay City Shovels Inc 2611 Center Bay City Mich  
**BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS**  
Charles Machine Wks Perry Okla  
Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio  
Coles Cranes Box 942 Joliet Ill  
Day-Smith Hydraulic Corp Camp Hill Pa  
Hughes-Keenan Co 648 Newman Mansfield Ohio  
Hydrocrane Div Bucyrus-Erie Co Milwaukee 4 Wis  
Hyster Co 2979 NE Clackamas Portland 8 Ore  
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
Kwik-Mix Co Port Washington Wis  
Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa  
Marlon Power Shovel Co 617 W Center Marion Ohio  
Michigan Power Shovel Co Benton Harbor Mich  
Milwaukee Power Equipment Co 1111 W Bruce Milwaukee 4 Wis

Northwest Engineering Co 135 S LaSalle Chicago 3 Ill  
Orton Crane & Shovel Co 608 S Dearborn Chicago 5 Ill  
Osgood-General Cheney Av Marion Ohio  
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
Ross Carrier Co 331 Miller Harbor Benton Harbor Mich  
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY  
Thew Shovel Co 1374 E 28th Lorain Ohio  
Unit Crane & Shovel Corp 6411 W Burnham Milwaukee 14 Wis

### CREOSOTE

American Creosote Wks Inc 1307 Dublin New Orleans La  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
C-A Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo  
Cabot (Samuel) & Co Inc 141 Milk Boston 9 Mass  
Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee 3 Wis  
Coopers Creek Chemical Corp River Rd West Conshohocken Pa  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Inland Steel Co 38 S Dearborn Chicago 3 Ill  
Koppers Co Koppers Bldg Pittsburgh Pa  
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 1 Ind

### CRESTING & FINIALS, ROOF, SHEET METAL

**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
Wheeling Corrugating Co Wheeling W VA

### CRIBBING, WIRE

**AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
Continental Steel Corp 1109 S Main Kokomo Ind  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Logan Co 201 Cabel Louisville 6 Ky  
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
Mid States Steel & Wire Co Crawfordsville Ind  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill

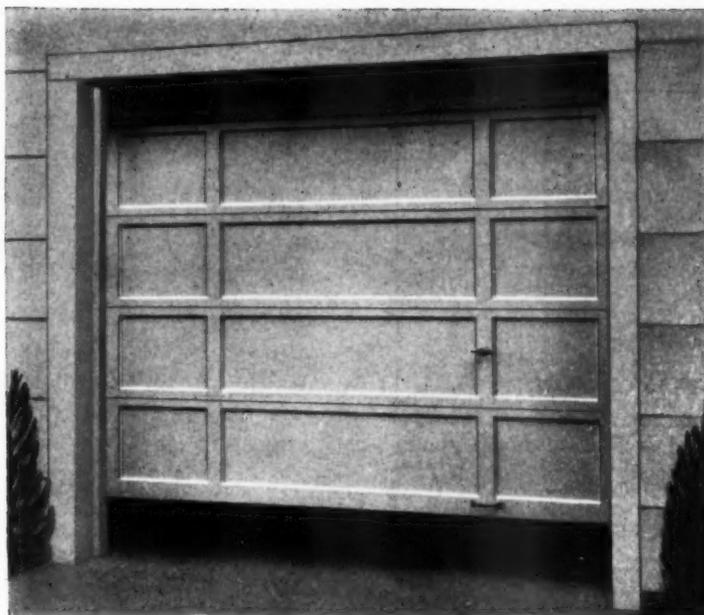
### CRIBS, CORN, PORTABLE

**AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Beatrice Steel Tank Mfg Co Beatrice Neb  
Butler Mfg Co 13th & Eastern Av Kansas City 3 Mo  
Capital Fence Co 735 N Water Milwaukee 2 Wis  
Gaynor (E S) Lumber Co Sioux City Iowa  
Illinois Wire & Mfg Co Box 1396 Joliet Ill  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Mattsen Wire & Mfg Co Inc Market St Joliet Ill  
Midwest Steel Prods Co Kansas City Mo  
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Neb  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
**RILCO LAMINATED PRODS INC FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**  
**ROWE MFG CO 614 W THIRD GALESBURG Ill**  
Security Fence & Mfg Co 8701 N 30th Omaha 12 Neb  
Super Structures Inc 1015 S Jefferson Albert Lea Minn  
Wheeler-Arnold Co Wittenberg Wis

### CRIBS, GRAIN, STEEL

Agrifirst Chemical Corp Lincoln Neb  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Kozy Mfg Co Exira Iowa  
Lamneck Prods Inc Middletown Ohio  
Martin Steel Prods Corp 111 W Longview Mansfield Ohio  
Ross Equipment Co Springfield Ohio  
Siebring Mfg Co Peven St George Iowa

**AMERICAN BUILDER**



# NEW!

## FRANTZ NO. 450 FIVE-SECTION OVERHEAD-TYPE GARAGE DOOR

with Frantz' famous  
easy operating  
features

**BEAUTIFUL TO SEE**  
*"Beautiful" to Install*

**PRICED RIGHT for your BUILDING BUDGET**

Beauty is more than "skin deep" when you consider Frantz Overhead Doors and Hardware. They are not only beautiful in design—as modern as tomorrow—but they are "beautiful" to handle...easy to install and adjust, and trouble-free.

*Effortless Operation*—easy opening and closing—is the key to Frantz' tremendous popularity. The new No. 450, with improved Chrome handle, is the latest example. It has most of Frantz' famous fourteen features. All parts, except springs, are either zinc plated or made of galvanized steel. Only 12½" headroom is required. Offset Joints seal out weather. Tapered Track has full 16" radius curve. An exclusive safety-catch prevents rebound. Automatic double-action latches assure weather tight closing.

Over 25 other designs give you what is probably the largest variety of styles and sizes of rigid and sectional Overhead Doors and Door Hardware to be obtained anywhere from a single source. Write for catalogs No. 302 and 107. Visit your Frantz dealer today and see for yourself!



The No. 450, above, is for 8' x 7' openings. Also available are the No. 459 for 9' x 7' and the No. 466 for 16' x 7' openings. The Chrome handle can be fitted at either side.

*"Your BEST Door  
For '54"*

# FRANTZ

GARAGE DOORS AND HARDWARE

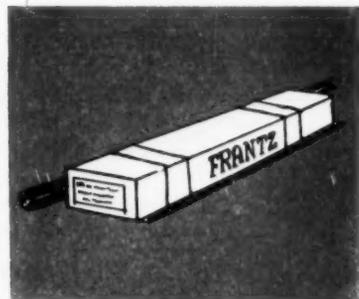
**FRANTZ MANUFACTURING CO.**  
STERLING, ILLINOIS



**The No. 10, RIGID TYPE**—Popular one-piece door with self-opening "Powermatic" Action. Needs only 2" headroom. Single and double.



**The No. 500 SERIES**—"Last word" in overhead sectional garage doors. Has "Glide-O-Matic" Action. 6" Headroom. Available 3 sizes.



**FRANTZ OVERHEAD HARDWARE SETS**—The biggest value for designing your own overhead door. A complete line, for openings up to 18'x12'.

## ▶ CUTTERS, ASBESTOS CEMENT BOARD

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
PEARSON (O) MFG CO BOX 255 LAKE VILLA ILL

## ▶ CUTTERS, BAR

Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis  
Cairing Tool Co 21221 Hoover Rd Detroit 32 Mich  
Union Twist Drill Co 70 Monroe Athol Mass

## ▶ CUTTERS, GLASS

Barrett (William L.) 34 School Bristol Conn  
Black Panther Tool Co 4951 S Iowa Milwaukee 7 Wis  
Fletcher-Terry Co Forestville Conn  
Glaziers' Tool Mfg Corp 611 W Adams Chicago Ill  
Heller (W C) & Co 1950 Bryant Montpelier Ohio  
Karlson (E) Inc 125 W 45th New York 36 NY  
Millers Falls Co Greenfield Mass  
National Mirror Wks 1925 Kishwaukee Rockford Ill  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
RED DEVIL TOOLS 130 COIT IRVINGTON NJ  
Ridgely Trimmer Co Springfield Ohio  
Sommer & Mace Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill  
Warren (J D) Mfg Co Montpelier Ohio

## ▶ CUTTERS, INSULATION BOARD

Hartmeister Mfg Co Inc 2020 W Barbary Pl Denver 4 Colo  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY  
Kimball Mfg Co 1633 Sycamore Royal Oak Mich  
STANLEY WKS 111 ELM NEW BRITAIN CONN  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

## ▶ CUTTERS, MOULDING

BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO  
Boyer Crane Co 930 W Central Av Toledo 6 Ohio  
Dependable Machine Co Box 1235 Sedgewick Greensboro NC  
Ekstrom Carlson & Co 1417 Railroad Av Rockford Ill  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY  
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio  
Markwell Mfg Co 200 Hudson New York 13 NY  
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill  
POOTATUCK CORP 50 SAMMIS PL STRATFORD CONN  
Shimer (Samuel J) & Sons Inc 10 Race Milton Pa  
STANLEY WKS 111 ELM AV NEW BRITAIN CONN  
Woods (S A) Machine Co Damrell & Alger Boston 27 Mass  
Yates-American Machine Co 729 4th Beloit Wis

## ▶ CUTTERS, SHINGLE, ASBESTOS CEMENT

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
FLINTRKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
KEASBEY & MATTISON CO BUTLER AV AMBLER PA  
Parsons Bros Slate Co Pen Argyl Pa  
PEARSON (O) MFG CO BOX 255 LAKE VILLA ILL  
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**CINCINNATI IRON FENCE CO INC 210 FLORENCE AV CINCINNATI 6 OHIO**  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Dept AB Cincinnati 23 Ohio  
**HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY**  
 International Fireproof Door Co 76 Lexington Av Brooklyn 5 NY

**DOORS, CLEANOUT**

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
 Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind  
**BENNETT-IRELAND CO 23 STATE NORTH WICH NY**  
 Builders Steel Co 3800 9th Av S Seattle 8 Wash  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Colonial Fireplace Co 549 N Cicero Av Chicago 44 Ill  
 Conco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Gabriel Steel Co 13700 Sherwood Detroit 12 Harris Inc 200 E Long Columbus 15 Ohio  
**HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY**  
**INLAND STEEL PRODS CO 411 W BURNHAM MILWAUKEE 1 WIS**  
 International Steel Co Evansville 7 Ind  
 Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Mesker Bros 4330 Geraldine St Louis 2 Mo  
 Metal Crafters E Av at 18th St NE Cedar Rapids Iowa  
 Price Fireplace Heater & Tank Corp 195 W Austin Buffalo 7 NY  
 Sterling Foundry Co Box 457 Sterling Ill  
**SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL**  
 Swett (A L) Iron Wks 151 Glenwood Av Medina Ny  
 US Hlwe & Mfg Co Pawtucket RI  
 Vestal Mfg Co Box 152 Sweetwater Tenn  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
 Wheeling Corrugating Co Wheeling W Va

# To sell *more* homes with *less* effort ...use plenty of Pittsburgh



**THIS BRAND NEW IDEA** in Carrara Glass application is meeting with enthusiastic praise from American builders and homemakers alike. Here's a way to give your homes—whether you are building new ones or remodeling existing residences—the luxury of Carrara Glass at a low-budget price. You simply install Carrara where it is needed most: in the tub enclosure, behind the lavatory, around the bottom of the wall as a 14" high base. And it's easy to install. Just three simple measuring steps are necessary prior to ordering the glass. The Carrara sections are shop-cut to size with proper holes drilled ready to put up; finished job is beautiful, permanent, easy to keep clean. It usually costs less than a wainscot job of other materials. Ask your Pittsburgh glass distributor for full information.

# Glass



**PITTSBURGH FULL-LENGTH DOOR MIRRORS** are a must in every home. People demand them. That's why it's wise for you to include several in every home you build or renovate. It takes just a few minutes to install them. They're really full-length (68" high) and they come in five different widths—16, 18, 20, 22, and 24 inches—to fit more than 90% of all interior millwork doors. You'll be surprised at how much value they will add to your homes—and they're inexpensive.

**A WALL MIRROR**, like this one in the dining room—or the living room, bedroom, entrance hall—adds a touch of elegance to any home. It helps to impress home buyers with the exceptional value you are offering; aids in bringing in a lot of plus-business. And the new Pittsburgh structural mirror brackets make installing a really simple matter. These brackets accommodate mirrors from 28" to 80". They take care of any irregularities in the wall.



*Every nickel you spend on glass shows.  
And the results far outweigh the cost.*

*Build it better with*

# Pittsburgh Glass

See Sweet's Builders Catalog for detailed information on Pittsburgh Plate Glass Company products.

PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS • FIBER GLASS



**PITTSBURGH PLATE GLASS COMPANY**

**IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED**

## ▶ DOORS, COAL CHUTE

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Badter Corrugating Co 1801-39 West Av S  
La Crosse Wis  
**CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL**  
Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Copeo Steel & Engineering Co 14035 Grand  
River Av Detroit 27 Mich  
Davis & Siehl Co 4032 Hamilton Av Box 78  
Sta A Dept AB Cincinnati 23 Ohio  
Decatur Iron & Steel Co 2nd St W Decatur  
Ala  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
Gabriel Steel Co 13700 Sherwood Detroit 12  
Mich  
Industrial Iron Wks Box 1625 6011 SW Mac-  
adam Portland 1 Ore  
**KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL**  
**MAJESTIC CO HALL ST HUNTINGTON  
IND**  
Mesker Bros 4330 Geraldine St Louis 2 Mo  
**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**  
Peerless Mfg Corp 1400 W Ormsby Louisville  
10 Ky  
Wheeling Corrugating Co Wheeling W Va

## ▶ DOORS, COMBINATION, ALUMINUM

Allied Metal Inc 14 Hamilton New London  
Conn  
Alco Inc 260 S Forge Akron Ohio  
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
**ALUMATIC CORP OF AMERICA 2081 S  
56TH MILWAUKEE 14 WIS**  
Barnhart (A W) Co 110 Highland Port  
Chester NY  
**CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL**  
Chamberlin Co of America 1254 La Brosse  
Detroit 26 Mich  
Compo-Miracle Prods Co 15221 W Eleven-  
Mile Rd Berkeley Mich  
Eagle Pieher Co American Bldg Cincinnati  
1 Ohio  
Feather-Lite Mfg Co 15889 Schaefer Detroit  
27 Mich  
Firecraft Corp 3110 W 51st Chicago Ill  
Harris Inc 200 E Long Columbus Ohio  
Hess Mfg Co Quincy Pa  
**INGERSOLL PRODS DIV BORG-WARNER  
CORP 310 S MICHIGAN AV CHICAGO 4  
ILL**  
Jamaica Sash & Door Co 1655 Jericho Turn-  
pike New Hyde Park NY  
Kaufmann Corp 17210 Gable Detroit Mich  
Kota Prods Inc County Rd Rocky Point LI  
NY  
Morgan-Wightman Supply Co 1541 Salzman  
Av St Louis Mo  
**NATIONAL ALUMINUM CO 1135 ALUM  
CREEK DR COLUMBUS 9 OHIO**  
Orange Div Eagle Pieher Co American Bldg  
Cincinnati Ohio  
Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
Russell (F C) Co 1100 Chester Av Cleveland  
1 Ohio  
Universal Fabricators 1785-1829 Boone Av  
New York 60 NY  
V-Seal Corp 1300 Batavia Rd Royal Oak Mich  
Weather-Proof Co 1409 E 40th Cleveland 3  
Ohio  
**WEATHER-SEAL INC 24 HUSTON BAR-  
BERTON OHIO**  
Winsulite Mfg Co 725 N Central Av Balti-  
more 2 Md  
Wiseco Aluminum Corp 3945 A St Detroit  
Mich

## ▶ DOORS, COMBINATION, STEEL

**CHALLENGER PRODS INC 2601 PENN AV  
PITTSBURGH 22 PA**  
Chamberlin Co of America 1254 La Brosse  
Detroit 26 Mich  
**CINCINNATI IRON FENCE CO INC 2101  
FLORENCE AV CINCINNATI 6 OHIO**  
Compo-Miracle Prods Co 15221 W Eleven-  
Mile Rd Berkeley Mich  
McKindley (Orman O) Co 4530 N Keystone  
Av Box 5341 Indianapolis 5 Ind  
Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
**RUSSELL (F C) CO UNION COMMERCE  
BLDG ANNEX CLEVELAND OHIO**

## ▶ DOORS, COMBINATION, WOOD

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Angel Novelty Co 540 Broad Fitchburg Mass  
Anson & Gilkey Co Logan Av & Sales Merrill  
Wis  
Bond-Howell Lumber Co 515 E Ninth Jack-  
sonville Fla  
Buffelen Lumber & Mfg Co Box 1595 Tacoma  
Wash  
Burke Millwork Co Fremont Bridge Seattle 3  
Wash  
**CARR, ADAMS & COLLIER CO 11TH &  
JACKSON DUBUQUE IOWA**

Chamberlin Co of America 1254 LaBrosse  
Detroit 26 Mich  
Cole Mfg Co Box 2637 Memphis 2 Tenn  
Combination Door Co Fond du Lac Wis  
Continental Screen Co 1323 Book Bldg De-  
troit 26 Mich  
**CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Feather-Lite Mfg Co 15889 Schaefer Detroit  
27 Mich  
**GEORGIA-PACIFIC PLYWOOD CO ACME  
DOOR DIV QUEEN & LINCOLN HO-  
QUIAM WASH**  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON, INC 21-31 BLANDIN AV  
FRAMINGHAM MASS**  
Hines (Edward) Lumber Co 77 W Washing-  
ton Chicago 8 Ill  
Hurl Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Ideal Co 24th & Mary Waco Tex  
**LONG-BELL LUMBER CO R A LONG  
BLDG KANSAS CITY 6 MO**  
M & M Woodworking Co Kenton Sta Port-  
land 3 Ore  
Marquart Millwork Co 50 Coupe Oshkosh  
Wis  
Midwest Jobbers Inc 3300-08 S Racine Av  
Chicago 8 Ill  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan-Wightman Supply Co 1541 Salzman  
Av St Louis Mo  
National Screen Co Inc Madison Av Ext Suf-  
folk Va  
National Screen Door Co Box 1887 Mont-  
gomery 3 Ala  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1  
Wash  
Pacific Mutual Door Co Tacoma Bldg Tacoma  
Wash  
Phenix Mfg Co 4127 N Port Washington Rd  
Milwaukee 12 Wis  
Prentice (F W) & Co 430 N Dean Adrian  
Mich  
Quigley (J R) Co Gloucester City NJ  
Roneh & Musser Co Muscatine Iowa  
Robbins Mfg Co 1815 N Central Pk Chicago  
47 Ill  
Roberson (A) & Sons Inc Box 111 Bingham-  
ton NY  
Rock Island Millwork Co Rock Island Ill  
Schumacher (F E) Co 200 Mill Hartville  
Ohio  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse  
Wis  
Silerest Co 100 Thomas Wausau Wis  
**WABASH SCREEN DOOR CO 310 S MICH-  
IGAN AV CHICAGO 4 ILL**  
Window Conditioning Co 32 Brown Barber-  
ton Ohio

## ▶ DOORS, FIR

Aetna Plywood & Veneer Co 1731 N Elston  
Chicago 22 Ill  
Angel Novelty Co 340 Broad Fitchburg Mass  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Buffelen Lumber & Mfg Co Box 1595 Tacoma  
Wash  
Burke Millwork Co Fremont Bridge Seattle  
3 Wash  
Cruver Door Co 308 Security Bldg Box 1102  
Tacoma Wash  
Diamond Match Co Chico Cal  
**FIR DOOR INSTITUTE TACOMA WASH**  
**GENERAL PLYWOOD CORP 3131 W MAR-  
KET LOUISVILLE KY**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Georgia-Pacific Plywood Co Acme Door Div  
Queen & Lincoln Houqium Wash  
**GREGG & SON 21-31 BLANDIN AV FRAM-  
INGHAM MASS**  
Long-Bell Lumber Co 926 Grand Kansas City  
6 Mo  
M & M Woodworking Co Kenton Sta Port-  
land 3 Ore  
MacMillan & Bloedel Ltd 837 Hastings Van-  
couver BC Canada  
Maak Seattle Lumber Co 3935 University  
Way Seattle 5 Wash  
Milwaukee Plywood Co 1227 W Bruce Mil-  
waukee 5 Wis  
Monarch Door & Mfg Co Tacoma Wash  
Morgan-Wightman Supply Co 1541 Salzmae  
Av St Louis Mo  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Robinson Plywood & Timber Co Box 904 Ev-  
erett Wash  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse  
Wis  
Simpson Logging Co White Bldg Seattle 1  
Wash  
US Mengel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**  
Washington Door Co Tacoma Wash  
Western Door & Plywood Corp 900 SW Sec-  
ond Av Portland 4 Ore  
Woodward Lumber Co Vance Bldg Seattle 1  
Wash

## ▶ DOORS, FIRE

**AETNA STEEL PRODS CORP 730 FIFTH  
AV NEW YORK 19 NY**  
**AMERICAN WELDING & MFG CO DIETZ  
RD WARREN OHIO**  
Colorado Fuel & Iron Corp Continental Oil  
Bldg Denver 2 Colo  
Cornell Iron Wks Inc 36th Av & 13th Long  
Island City 4 NY  
Dahlstrom Metallic Door Co 443 Buffalo  
Jamestown NY  
**DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH**  
Diebold Inc 818 Mulberry Rd SE Canton 2  
Ohio  
Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich  
Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo  
Harris Preble Fire Doors Inc 4608 W 29th  
Cicero 50 Ill  
International Fireproof Door Co 76 Lexing-  
ton Av Brooklyn 5 NY  
International Steel Co 1321 Edgar Evansville  
7 Ind  
Kinner Mfg Co Seventh & Fields Av Colum-  
bus 16 Ohio  
Mesker Bros 4330 Geraldine St Louis 2 Mo  
National Kalemei Co Inc 420 Lexington Av  
Brooklyn 21 NY  
**RICHARDS-WILCOX CO 220 THIRD AU-  
RORA ILL**  
Richmond Fireproof Door Co Box 334 Rich-  
mond Ind  
**RODDIS PLYWOOD CORP MARSHFIELD  
WIS**  
St Louis Fire Door Co 400 Withers Av St  
Louis 7 Mo  
Syracuse Fire Door Corp 900 Canal Syra-  
cuse 3 NY  
Triston Damper Co 645 W 42nd Seattle Wash  
Tristram Damper Co Trussville Ala  
**UNITED STEEL FABRICATORS INC HIGH  
& GASCH WOOSTER OHIO**  
US Mengel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**  
Virginia Metal Prods Inc Dept A-44 Orange  
Va  
Wagner Iron Wks 1905 S First Milwaukee  
1 Wis  
Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa  
Willis Steel Corp Box 149 Galesburg Ill  
Wilson (J G) Corp 372 Lexington Av New  
York 17 NY

## ▶ DOORS, FLEXIBLE & FOLDING

**AMERICAN BAMBOO CORP 171-04 JA-  
MAICA AV JAMAICA 32 NY**  
Closures Inc 533 E Forest Av Detroit 1 Mich  
**CONSOLIDATED VENETIAN BLIND CO  
DIV CONSOLIDATED GENERAL PRODS  
INC 2401 NICHOLSON BOX 7425 HOUS-  
TON 8 TEX**  
Curtison Co 2227 Sawtelle Blvd West Los  
Angeles Cal  
DeJong Inc 34-23 36th Long Island City 1  
NY  
Holecomb & Hoke Mfg Co Inc 1545 Van Buren  
Indianapolis 7 Ind  
**HIGH SHADE CORP 1203 S JACKSON  
JANESVILLE WIS**  
Midwest Plywood Co 10101 Lyndon Detroit  
21 Mich  
**NEW CASTLE PRODS CO NEW CASTLE  
IND**  
Nova Sales Co Trenton 3 NJ  
Orchard Bros Inc 63 Meadow Rd Rutherford  
NJ  
**RICHARDS-WILCOX CO 220 THIRD AU-  
RORA ILL**  
**ROLSCREEN CO PELLA IOWA**  
Spokane Sash & Door Co Spokane Wash  
**TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1650 ALBERT YOUNGSTOWN 1  
OHIO**  
Warren Shade Co Inc 2907 E Hennepin Av  
Minneapolis 13 Minn  
Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa  
Wisconsin Door Co 10101 Lyndon Av Detroit  
21 Mich

## ▶ DOORS, FLUSH, WOOD

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Angel Novelty Co 340 Broad Fitchburg Mass  
Anson & Gilkey Co Logan Av & Sales Mer-  
rill Wis  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Braund (W R) Co Wabec Bldg Birmingham  
Mich  
Carnahan Mfg Co Loogootee Ind  
**CARR, ADAMS & COLLIER CO 11TH &  
JACKSON DUBUQUE IOWA**  
Craftwood Prods 94 Stevenson Belleville NJ  
**CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA**  
Curtis Cos Inc American Plywood Div New  
London Wis  
Davis Plywood Corp 12555 Berea Rd Clevel-  
land 1 Ohio

Elliott Bay Mill Co 600 W Spokane Seattle Wash  
 Farley & Loetscher Mfg Co Dubuque Iowa  
 Future Prods Inc Box 66 Sta A St Petersburg Fla  
**GENERAL PLYWOOD CORP 3131 W MARKET LOUISVILLE 2 KY**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Georgia-Pacific Plywood Co Acme Door Div  
 Queen & Lincoln Hoquiam Wash  
 Goshen Sash & Door Co E Purl St Goshen Ind  
**GREGG & SON 21-31 BLANDIN AV FRAMINGHAM MASS**  
 Hardwood Prods Corp 164 Lake Neenah Wis  
**HASKELITE MFG CORP 701 ANN NW GRAND RAPIDS 2 MICH**  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Hurd Millwork Corp Medford Wis  
 Huttig Mfg Co Muscatine Iowa  
 Hyde-Murphy Co Ridgway Pa  
 Ipik Plywood Corp Kenner La  
 Kennedy (J G) Lumber Co 4414 White Henry Stuart Bldg Seattle 1 Wash  
 Kochton Plywood & Veneer Co 509 W Roosevelt Rd Chicago 7 Ill  
 Lectrao Building Prods 8 Broadway New York 4 NY  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 Lutz (Wm R) Co 18 Bergen Brooklyn NY  
 M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore  
 M & S Inc 15 E Third Cincinnati 2 Ohio  
 MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
**MENDEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
 Michigan Door Co 330 Franklin SW Grand Rapids Mich  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Mohawk Flush Doors Inc 3383 Hammond Av Elkhart Ind  
 Morgan Co Oshkosh Wis  
 Morgan-Wightman Supply Co 1541 Salzmann Av St Louis Mo  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Northern Sash & Door Co Hawkins Wis  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
 Pacific Forest Sales Corp 1105 N Riverside Medford Ore  
 Pacific Mfg Co 2610 The Alameda Santa Clara Cal  
**PAINE LUMBER CO LTD 73 W ALGONA OSHKOSH WIS**  
 Peterson (J C) Co 3167 W Mission Rd Alhambra Cal  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood & Door Sales Corp End of 9th Cleveland 14 Ohio  
 Quizey (J R) Co Gloucester City NJ  
 Robinson Plywood & Timber Co Box 904 Everett Wash  
 Rock Island Millwork Co Rock Island Ill  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
 Setelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
 Silerest Co 100 Thomas Wausau Wis  
 Simpson Logging Co White Bldg Seattle 1 Wash  
**THOMASON PLYWOOD CORP BOX 352 FAYETTEVILLE NC**  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 18 NY**  
 Walled Lake Door Co Walled Lake Mich  
 Weisberg-Baer Co 405-26th Av Long Island City 2 NY  
 Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich  
 Young Wood Prods Co Novi Mich

**DOORS, GARAGE, METAL**

**BARBER-COLMAN CO 120 MILL ROCKFORD ILL**  
 Burt Mfg Co 44 E South Akron 11 Ohio  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich  
 Holster Coil Springs Mfg Co Avalon near Florence Av Los Angeles Cal  
 International Steel Co 1321 Edgar Evansville 7 Ind  
 Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio  
**MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY**  
**OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND**  
**STEEL DOOR CORP 359 S JESSIE PONTIAC MICH**

Stoddard Mfg Co 617 Fourth SW Mason City Iowa

**AUTOGLIDE**

Galvaneel Steel Garage Doors—with "touch control" automatic opening—at popular prices. All residential and commercial sizes—dependable, rugged, lifetime construction—smoother, quieter operation—easy to install. New low priced electric opener—optional.

**STODDARD MFG. CO.**  
 Mason City Iowa

Taylor (L S) Mfg Co 1091 Zanolite Rd NE Atlanta Ga  
 Taylor Made Garage Doors 12430 Evergreen Rd Detroit 28 Mich  
**TILT-A-DOOR CORP 3800 E OUTER DR DETROIT MICH**  
**UNITED STEEL FABRICATORS INC 333 GASCHER WOOSTER OHIO**  
 Wilson Foundry & Machine Co Pontiac 11 Mich

**DOORS, GARAGE, WOOD**

Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
**BARBER-COLMAN CO 120 MILL ROCKFORD ILL**



Barcol  
**OVERdoors**

see full page ad this issue on doors, door operators and controls

Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CALDER MFG CO 631 N PRINCE LANCASTER 3 PA**  
 Capitol Prods Co 118 S Third Springfield Ill  
**CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Commander Door Inc Maple Av & B&O RR Holmes Pa  
**CRAWFORD DOOR CO 20263 HOOVER RD DETROIT 5 MICH**  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Farley & Loetscher Mfg Co Dubuque Iowa  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 General Door Mfg Co 1718 N First Milwaukee 12 Wis  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Goshen Sash & Door Co East Purl Goshen Ind  
 Hall Enterprises Casco Wis  
 Hurd Millwork Corp Medford Wis  
 Ideal Co 24th & Mary Waco Tex  
 Kaiser Metal Prods Co Bristol Pa  
 Kinnear Mfg Co Fields Av Columbus 16 Ohio  
**LONG BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 Loudon Machinery Co 1120 Broadway Fairfield Iowa  
 M & M Woodworking Co Kenton Sta Portland 3 Ore  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
 McKee Door Co 110 Hanks Aurora Ill  
 Morgan-Wightman Supply Co 1541 Salzmann Av St Louis Mo  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
**OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND**  
**RAYNOR MFG CO DIXON ILL**  
**RICHARDS-WILCOX CO 220 THIRD AURORA ILL**  
 Roach & Musser Co Muscatine Iowa  
 Rock Island Millwork Co Rock Island Ill  
 Setelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
**SHEFFIELD DOORS INC ROCKFORD ILL**  
 Silerest Co 100 Thomas Wausau Wis  
 Simpson Logging Co White Bldg Seattle 1 Wash  
**STANKEY WKS 111 ELM NEW BRITAIN CONN**  
 Starline Inc Harvard Ill  
 Sterling Electronic Door Control Corp 323 W 2nd Rock Falls Ill

**DOORS, GARAGE, UPWARD ACTING, METAL**

**BARBER-COLMAN CO 120 MILL ROCKFORD ILL**  
 Burt Mfg Co 44 E South Akron 11 Ohio  
 Clark Door Co Inc 515 Hunterdon Newark 8 NJ  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 K-D Garage Door Sales 19830 Fitzpatrick Detroit 28 Mich  
 Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av Detroit 7 Mich  
 Goshen Sash & Door Co E Purl Goshen Ind  
 Kinnear Mfg Co 7th & Fields Av Columbus 16 Ohio  
 Monarch Door Co Folsom Pa  
**MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY**  
**OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND**  
**STEEL DOOR CORP 359 S JESSIE PONTIAC MICH**  
 TAYLOR (L S) Mfg Co 1091 Zanolite Rd NE Atlanta Ga  
 Wilson (J G) Corp 372 Lexington Av New York 17 NY

**DOORS, GARAGE, UPWARD ACTING, WOOD**

**BARBER-COLMAN CO 120 MILL ROCKFORD ILL**  
 Better-Bilt Door Co 950 Harbor Rd Egg Harbor NJ  
 Buffelen Lumber & Mfg Co Box 1595 Tacoma Wash  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CALDER MFG CO 630 N PRINCE LANCASTER PA**  
 Capitol Prods Co 118 S Third Springfield Ill  
**CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Commander Door Inc Maple Av & B&O RR Holmes Pa  
**CRAWFORD DOOR CO 20263 HOOVER RD DETROIT 5 MICH**  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
 Essential Prods Corp 1127 Madison Little Chute Wis  
 Farley & Loetscher Mfg Co Dubuque Iowa  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 General Door Mfg Co 1736 N Second Milwaukee 12 Wis  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Georgia-Pacific Plywood Co 270 Park Av New York 17 NY  
 Hall Enterprises Casco Wis  
 Harris Inc 200 E Long Columbus Ohio  
**HOWELL MFG CO COTTMAN & HARBROOK AV PHILADELPHIA 11 PA**  
 Kinnear Mfg Co 7th & Fields Av Columbus 16 Ohio  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 McKee Door Co 110 Hanke Aurora Ill  
 M & M Woodworking Co Kenton Sta Portland 3 Ore  
 Morgan Overhead Door Co 1018-24 Hodiamont St Louis Mo  
**NATIONAL MFG CO STERLING ILL**  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
**OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CITY IND**  
 Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
 Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 21 Wis  
**RAYNOR MFG CO E RIVER RD DIXON ILL**  
**RICHARDS-WILCOX CO 220 THIRD AURORA ILL**  
 Roach & Musser Co Muscatine Iowa  
 Rock Island Millwork Co Rock Island Ill  
**ROWE MFG CO 614 W THIRD GALESBURG ILL**  
**SHEFFIELD DOORS INC ROCKFORD ILL**

**Sheffield OVERHEAD DOOR**

sold only by lumber and building material dealers (see full-page ad this issue)

Silerest Co 160 Thomas Wausau Wis  
Simpson Logging Co White Bldg Seattle 1  
Wash  
**STANLEY WKS 111 ELM NEW BRITAIN  
CONN**  
Starline Inc Harvard Ill  
**STRAND GARAGE DOOR DIV DETROIT  
STEEL PRODS CO 2243 E GRAND BLVD  
DETROIT MICH**  
United Prods Co Overhead Door Div 900 N  
4rd Milwaukee 8 Wis  
**WAGNER MFG CO FIRST & WASHINGTON  
CEDAR FALLS IOWA**  
Washington Door Co Tacoma Wash  
Wel-Bilt Prods Co Box 95 Memphis 1 Tenn  
Western Door & Plywood Corp 900 SW Sec-  
ond Av Portland 4 Ore

### ▶ DOORS, GLASS

Angel Novelty Co 340 Broad Fitchburg Mass  
Arcadia Metal Prods 324 N Second Arcadia  
Cal  
Bache (Semon) & Co 640 Greenwich New  
York 14 NY  
Blue Ridge Glass Corp Nicholas Bldg 12th  
Fl Toledo 3 Ohio  
Crane Fullview Glass Door Co 4616 N Clif-  
ton Av Chicago 40 Ill  
Fulton Glass Co Box 348 Hartford City Ind  
Hagemann Cos Inc 2145 Central Pkwy Cin-  
cinnati 14 Ohio  
Huttig Sash & Door Co 1206 S Vandeventer  
Av St Louis 19 Mo  
**LIBBEY-OWENS-FORD GLASS CO NICH-  
OLAS BLDG TOLEDO OHIO**  
**LONG-BELL LUMBER CO RA LONG BLDG  
926-8 GRAND AV KANSAS CITY 6 MO**  
**L'OMMAN CORP 14100 BISCAYNE BLVD  
NORTH MIAMI FLA**  
Malibu Mfg Corp 8438 Melrose Av Los An-  
geles 48 Cal  
Marquart Millwork Co 50 Ceape Oshkosh  
Wis  
National Mirror Wks 1925 Kishwaukee Rock-  
ford Ill  
Northwest Door Co Box 1477 Tacoma 1 Wash  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Sehaecht Associates Inc 1175 E 156th New York  
59 NY  
Shower Door Co of America 973 Peachtree  
NE Atlanta 5 Ga  
Slide-View Steel Door & Window Co 521 N  
LaCienega Blvd Los Angeles 48 Cal  
Standard Building Prods Co 621 McDonald  
Av Brooklyn 18 NY

### ▶ DOORS, HARDWOOD

Aetna Plywood & Veneer Co 1732 N Elston  
Av Chicago 22 Ill  
American Sash & Door Co Kansas City 1 Mo  
Angel Novelty Co 340 Broad Fitchburg Mass  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Braund-Harmon Co Wabeek Bldg Birming-  
ham Mich  
Braund (W R) Co Wabeek Bldg Birmingham  
Mich  
Buffelen Lumber & Mfg Co Box 1595 Ta-  
coma 1 Wash  
Carnahan Mfg Co Loogzotee Ind  
**CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA**  
Curtis Cos Inc American Plywood Div New  
London Wis  
Davis Plywood Corp 12555 Berea Rd Cleve-  
land 1 Ohio  
Dyke Bros Little Rock Ark  
Farley & Loetscher Mfg Co Dubuque Iowa  
**GENERAL PLYWOOD CORP 3131 W MAR-  
KET LOUISVILLE 2 KY**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Georgia-Pacific Plywood Co 270 Park Av  
New York 17 NY  
Goshen Sash & Door Co E Purl Goshen Ind  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Hyde-Murphy Co Murphy Bldg Ridgway Pa  
Iplik Plywood Corp Kenner Iowa  
Letraco Building Prods 8 Broadway New  
York 4 NY  
**M & M Woodworking Co 2301 N Columbia  
Blvd Portland 17 Ore**  
**M & S Inc 15 E Third Cincinnati 2 Ohio**  
Marquart Millwork Co Oshkosh Wis  
**MENGEL CO 4TH & COLORADO LOUIS-  
VILLE 1 KY**  
Michigan Door Co 330 Franklin SW Grand  
Rapids Mich Mo  
Midwest Plywood Co 10101 Lyndon Detroit  
21 Mich  
Morgan Co 520 Oregon Oshkosh Wis  
Northern Sash & Door Co Hawkins Wis  
**PAINE LUMBER CO LTD 73 W ALGONA  
OSHKOSH WIS**  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Quigley (J R) Co Gloucester City NJ  
Rock Island Millwork Co Rock Island Ill  
**RODDIS PLYWOOD CORP MARSHFIELD  
WIS**  
Sezelke & Kohlhaus Co 600 S Second La-  
crosse Wis  
Silerest Co 160 Thomas Wausau Wis  
**THOMASON PLYWOOD CORP BOX 352  
FAYETTEVILLE NC**

US Menzel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
4TH NEW YORK 18 NY**  
Walled Lake Door Co Walled Lake Mich  
Wisconsin Door Co 10101 Lyndon Av Detroit  
21 Mich

### ▶ DOORS, LAUNDRY CHUTE

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
LOCKLAND CINCINNATI 15 OHIO**  
Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Copeo Steel & Engineering Co 14035 Grand  
River Av Detroit 27 Mich  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
Gabriel Steel Co 13700 Sherwood Detroit 12  
Mich  
Ideal Cabinet Corp Div Des Lauriers Columm  
Mould Co Inc 7722 Joy Rd Detroit 4 Mich  
Ideal Cabinet Corp 5131 Dempster Skokie Ill  
Kluengel (Ernest) & Co 169 W Kellogg Bldg  
St Paul 2 Minn  
**LEIGH BLDG PRODS DIV AIR CONTROL  
PRODS INC GLADE ST AT LARCH  
COOPERSVILLE MICH**  
Marquart Millwork Co 50 Ceape Oshkosh  
Wis  
**MIAMI CABINET DIV CAREY (PHILIP)  
MFG CO MIDDLETOWN OHIO**

### ▶ DOORS, LOUVER, WOOD

Anson & Gilkey Co Logan Av & Sales St  
Merrill Wis  
**CARR, ADAMS & COLLIER CO 11TH  
JACKSON DUBUQUE IOWA**  
Clearview Louver Window Co 2625 Elm Dal-  
lus 1 Tex  
**CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Georgia-Pacific Plywood Div Acme Door Div  
Queen & Lincoln Hoquiam Wash  
Goshen Sash & Door Co E Purl Goshen Ind  
Hurd Millwork Corp Medford Wis  
Hyde-Murphy Co Murphy Bldg Ridgway Pa  
Ideal Co 24th & Mary Waco Tex  
Kaufmann Corp 17210 Gable Detroit 12 Mich  
**LONG-BELL LUMBER CO R A LONG  
BLDG 926-8 GRAND AV KANSAS CITY  
6 MO**  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Morgan-Wichtman Supply Co 1541 Salzman  
Av St Louis Mo  
Morgan Co 520 Oregon Oshkosh Wis  
National Screen Door Co Box 1887 Mont-  
gomery 3 Ala  
Pro-Tect-U Jalousie Corp Box 1108 Coral Ga-  
bles Fla  
Rock Island Millwork Co Rock Island Ill  
Sezelke & Kohlhaus Co 600 S Second La-  
crosse Wis  
Silerest Co 160 Thomas Wausau Wis  
Tartan Industries Inc 230 Fifth Av New  
York NY  
Union Machine Co 708 Colfax Av Kenilworth  
NJ  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1  
TENN**

### ▶ DOORS, METAL

Adams Co Box 268 Dubuque Iowa  
**AETNA STEEL PRODS CORP 730 FIFTH  
AV NEW YORK 19 NY**  
American Sheet Metal Wks 325 N Alexander  
New Orleans La  
**AMERICAN WELDING & MFG CO WAR-  
REN OHIO**  
Bayley (William) Co 1200 Warder Spring-  
field Ohio  
**BILCO CO BOX 1203 WEST HAVEN 5  
CONN**  
Bogert & Carlough Co Washington Av Pater-  
son NJ  
Brasco Mfg Co 152nd & Commercial Av Har-  
vey Ill  
**CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL**  
Cornell Iron Wks Inc 36th Av & 13th Long  
Island City 6 NY  
Crittall Inc Waukesha Wis  
Croft Steel Prods Inc 10 Market Jamestown  
NY  
Dahlstrom Metallic Door Co 443 Buffalo  
Jamestown NY  
Davis & Siehl Co 4032 Hamilton Av Box 78  
Sta A Cincinnati 23 Ohio  
Demsey & Associates 8931 Carnegie Cleve-  
land 6 Ohio  
**DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH**  
Diebold Co Inc 818 Mulberry Rd SE Canton  
2 Ohio  
Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich  
**FLYNN (MICHAEL) MFG CO 700 E GOD-  
FREY AVE PHILADELPHIA 24 PA**  
Harris Preble Fire Doors Inc 4608 W 20th  
Chicago 50 Ill  
**HOPE'S WINDOWS INC 84 HOPKINS  
JAMESTOWN NY**  
International Fireproof Door Co 76-78 Lex-  
ington Av Brooklyn 5 NY

International Steel Co 1321 Edgar Evans-  
ville 7 Ind  
**KAWNEER CO 1105 N FRONT NILES  
MICH**  
Kinneer Mfg Co Seventh & Fields Av Colum-  
bus Ohio  
Marmet Corp Box 208 Wausau Wis  
Martin-Parry Corp 1155 W Alexis Rd Box  
964 Toledo Ohio  
Mesker Bros Sixth, Poplar & Seventh St  
Louis Mo  
Milwaukee Stamping Co 800 S 72nd Milwau-  
kee 14 Wis  
Mosler Safe Co 320 Fifth Av New York 1  
NY  
Natecor Store Fronts 15 Fourth Taunton Mass  
Newman Bros Inc 660 W 4th Cincinnati 3  
Ohio  
**RICHARDS-WILCOX CO 220 THIRD AU-  
RORA ILL**  
Richmond Fireproof Door Co Box 334 Rich-  
mond Ind  
Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
Smith (F P) Wire & Iron Wks 2310 N Cly-  
bourne Av Chicago 14 Ill  
Soule Steel Co San Francisco 24 Cal  
**STEELCRAFT MFG CO 9183 BLUE ASH  
RD ROSSMOYNE OHIO**  
Tennessee Fabricating Co 1490 Grimes Mem-  
phis Tenn  
Thorn (J S) Co Allegheny Av & 20th Phila-  
delphia Pa  
Truene Developments 9155 Sunset Blvd West  
Hollywood 46 Cal  
**TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1050 ALBERT YOUNGSTOWN 1  
OHIO**  
**UNITED STEEL FABRICATORS INC  
WOOSTER OHIO**  
Variety Mfg & Eng Co 810 W Fulton Chicago  
7 Ill  
Virginia Metal Prods Inc Dept A-44 Orang-  
Va  
Wagner Iron Wks 1905 S 1st Milwaukee 1  
Wis  
Weather-Proof Co 1409 E 40th Cleveland 3  
Ohio  
Williamshurg Steel Prods Co 86 Quay Brook-  
lyn 22 NY  
Wilson (J G) Corp 372 Lexington Av New  
York 17 NY

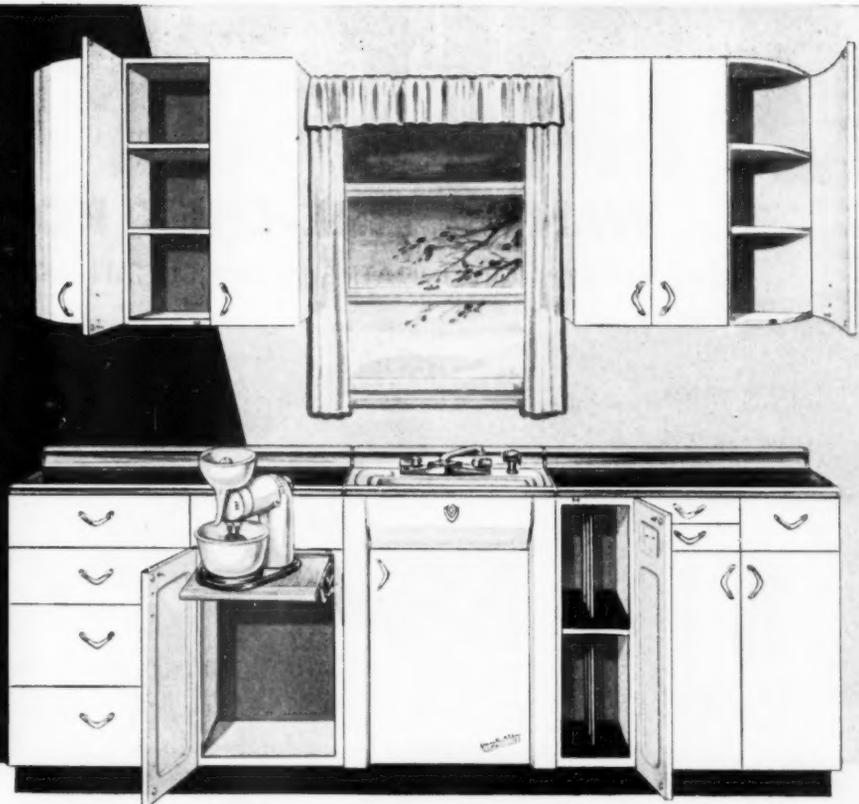
### ▶ DOORS, PLYWOOD

Aetna Plywood & Veneer Co 1732 N Elston  
Av Chicago 22 Ill  
Angel Novelty Co 340 Broad Fitchburg Mass  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Braund (W R) Co Wabeek Bldg Birmingham  
Buffelen Lumber & Mfg Co Box 1595 Tacoma  
1 Wash  
Clear Fir Sales Co Box 188 Springfield Ore  
**CURTIS COS INC 1200 S SECOND CLIN-  
TON IOWA**  
Curtis Cos Inc American Plywood Div New  
London Wis  
Davis Plywood Corp 12555 Berea Rd Cleve-  
land 11 Ohio  
Elliott Bay Mill Co 600 W Spokane Seattle 4  
Wash  
**GENERAL PLYWOOD CORP 3131 W MAR-  
KET LOUISVILLE KY**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Hamptonite Door Mfg Co Varnville SC  
**HIGGINS INC BOX 8001 NEW ORLEANS  
LA**  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Iplik Plywood Co Kenner La  
**LONG-BELL LUMBER CO R A LONG  
BLDG KANSAS CITY 6 MO**  
M & M Woodworking Co 2301 N Columbia  
Blvd Portland 17 Ore  
MacMillan & Bloedel Ltd 837 Hastings Van-  
couver BC Canada  
Maak Seattle Lumber Co 3935 University Way  
Seattle 5 Wash  
**MENGEL CO 4TH & COLORADO LOUIS-  
VILLE 1 KY**  
Midwest Plywood Co 10101 Lyndon Av Det-  
roit 21 Mich  
National Plywoods Inc 2710 Throop Chicago  
Ill  
North-Robbins Plywood Inc 400 Boren Av N  
Seattle 9 Wash  
Pacific Mutual Door Co Tacoma Wash  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Quigley (J R) Co Gloucester City NJ  
**RODDIS PLYWOOD CORP 1155 PALMETTO  
MARSHFIELD WIS**  
Silerest Co 160 Thomas Wausau Wis  
Simpson Logging Co White Bldg Seattle 1  
Wash  
US Menzel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
4TH NEW YORK 18 NY**  
Weisberg-Baer Co 405 26th Av Long Island  
City NY  
Wisconsin Door Co 10101 Lyndon Av Detroit  
21 Mich

### ▶ DOORS, PONDEROSA PINE

Anson & Gilkey Co Logan Av & Sales Mer-  
rill Wis

**NOW...**  
 more  
 kitchen  
 features  
 than ever  
 before in  
 any given  
 space with



**DIANA-STYLE**  **STEEL** *Youngstown Kitchens*

New Diana-style Youngstown Kitchens now let you custom-plan kitchens for even the most modest budget.

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Kitchens. And you enjoy the economies of mass-produced steel units that are quickly, easily installed . . . save hours of labor on the job.

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COUNTY \_\_\_\_\_

STATE \_\_\_\_\_

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# 7 OUT OF 10

## WANT A FIRE-CHEX ROOF

SAY VETERAN CINCINNATI BUILDERS DUGAN AND MEYERS



### **BUILD BETTER FOR BIGGER PROFITS WITH CAREY FIRE-CHEX!**

No Other Roofing Material  
Offers All These Advantages.

**Greater Fire Safety**—Actual U. L. tests proved that Carey Fire-Chex will resist a blazing wood brand 108 times larger than the size used to test Class C shingles . . . qualified these great new shingles for the highest possible fire safety rating—Class A by Underwriters' Laboratories, Inc.

**Beautiful Copyrighted Roof Designs**—Only Fire-Chex Shadow-Blend shingles can be laid in exclusive copyrighted shadow blend roof designs that cannot be duplicated! Available in shadow blends of green, gray, red, brown and Shasta Snow—also rich solid shades in Velvet Black and Chocolate Brown.

Please refer to Sweets Catalog for further information or write Dept. AB-4

**Years and Years More Protection**—Tests under the roughest weather conditions dished up by nature—from sub-frigid cold to sizzling heat—prove that Carey Fire-Chex resist blistering, hail and wind damage far better than ordinary roofing materials.

What an array of "extras" to help you build better for bigger profits! See your Carey Dealer for samples and prices!

**Fire-Chex Specifications:**

12x36 inches—Square Butt 3-Tab  
—Headlap 2 inches—Exposure 5 inches—Weight: approx. 325 lbs. per sq.—Colors: Green, Red, Gray, Brown and Shasta Snow Shadow Blends. In solid colors, Velvet Black and Chocolate Brown.

"You'll be pleased to know that Carey Fire-Chex asbestos-plastic shingles are the preferred roofing on the great majority of new homes we build. Once we tell folks the facts about Fire-Chex, and show samples of those beautiful blends and colors, no shingles but Fire-Chex will do. That's true even on jobs where it means spending a little more to get Fire-Chex, than for ordinary asphalt shingles. Naturally, we're sold on Fire-Chex. They run true to size—go on faster, give us more profit per job and provide greater satisfaction for our customers."

*James E. Meyers*

# Carey

The Philip Carey Mfg. Co.  
Cincinnati 15, Ohio  
In Canada: The Philip Carey Co., Ltd.  
Montreal 3, P.Q.

**CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Cole Mfg Co Memphis 2 Tenn  
**CURTIS COS 1200 S SECOND CLINTON IOWA**

Farley & Loetscher Mfg Co Dubuque Iowa  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**

Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa

Ideal Co 24th & Mary Waco Tex  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**

Marquart Millwork Co 50 Ceape Oshkosh Wis  
Mauk Seattle Lumber Co 3935 University Way Seattle 2 Wash

Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo

Northern Sash & Door Co Hawkins Wis  
Roberson (A) & Son Inc Box 111 Binghamton NY  
Rock Island Millwork Co Rock Island Ill

Segelke & Kohlhaus Co 600 S Second La-Crosse Wis  
Silerest Co 100 Thomas Wausau Wis  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**

### ▶ DOORS, PREFIT

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash

Burke Millwork Co Seattle 3 Wash  
Craver Door Co 308 Security Bldg Box 1102 Tacoma Wash

Farley & Loetscher Mfg Co Dubuque Iowa  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash

Hurd Millwork Corp Medford Wis  
**LONG-BELL LUMBER CO 926 GRAND KANSAS CITY 6 MO**

Lutze (Wm R) Co 18 Bergen Brooklyn NY  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo

**PAINE LUMBER CO LTD 73 W ALGONA OSHKOSH WIS**  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Silerest Co 100 Thomas Wausau Wis

Waldsworth Inc 2949 Chrysler Rd Kansas City Kan

### ▶ DOORS, REVOLVING

**GENERAL BRONZE CORP STEWART AV GARDEN CITY LI NY**  
International Steel Co 1321 Edgar Evansville 7 Ind

Michaels Art Bronze Co Covington Ky  
Revolvor International 420 Market San Francisco Cal

### ▶ DOORS, SCREEN, WOOD FRAME

American Sash & Door Co Kansas City Mo  
Angel Novelty Co Fitchburg Mass  
Burke Millwork Co Seattle 3 Wash

**CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Chamberlin Co of America Inc 1254 La-Brosse Detroit 26 Mich

**COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA**  
Cole Mfg Co Memphis 2 Tenn  
Continental Screen Co 1323 Book Bldg Detroit 26 Mich

Crown Shade & Screen Co Boston Mass  
**CURTIS COS INC 1200 S SECOND AVE CLINTON IOWA**

Detien Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY

Farley & Loetscher Mfg Co Dubuque Iowa  
Fordyce-Crosssett Lumber Co Fordyce Ark  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash

Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**

Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa

Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo  
Kane Mfg Corp Box 641 Kane Pa  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**

Kinzua Pine Mills Co Kinzua Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**

Marquart Millwork Co 50 Ceape Oshkosh Wis  
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
National Screen Co Inc Suffolk Va

National Screen Door Co Box 1887 Montgomery 3 Ala  
North-Robbins Plywood Inc 400 Borcu Av N Seattle 9 Wash  
Northern Sash & Door Co Hawkins Wis

Northwest Door Co Box 1477 Tacoma 1 Wash  
Pacific Mfg Co 2610 The Alameda Santa Clara Cal

Pacific Mutual Door Co Tacoma Wash  
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis

Prentice (F W) & Co 430 N Dean Adrian Mich  
Roach & Musser Co Muscatine Iowa  
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill

Robinson Plywood & Timber Co Box 904 Everett Wash  
Rock Island Millwork Co Rock Island Ill  
Segelke & Kohlhaus Co 600 S Second La-Crosse Wis

Schumacher (F E) Co 200 Mill Hartsville Ohio  
Semling-Menke Co S Nast St Merrill Wis  
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio

Silerest Co 100 Thomas Wausau Wis  
Universal Fabricators 1801 Boone Av Bronx 60 NY  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**

Weather-Proof Co 1409 E 40th Cleveland 3 Ohio  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN**

White Pine Sash Co E 4005 Broadway Spokane Wash  
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

### ▶ DOORS, SHOWER

**BECO CORP 3035 CANTON DALLAS TEX BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX**

California Shower Door Co 3738 1/2 E Colorado Blvd Pasadena 8 Cal  
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill

Downey Shower Door Co 8246 E Phlox Downey Cal  
**FLAT METAL MFG CO 9302 BELMONT AV FRANKLIN PARK ILL**

Genseo Tools 1830 N Kostner Av Chicago 39 Ill  
Glass Shower Door Co Inc 105 W Wacker Chicago Ill

Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal

Kesko Prods Inc Box 98 Bristol Ind  
Ketcham (G M) Mfg Corp 70-70-80th Glendale Brooklyn 27 LI NY

Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis

Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
National Metal-Art Mfg Co 1900 Eighth Av Brooklyn 15 NY

National Mirror Works 1425 Kishwaukee Rockford Ill  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**

Shower Door Co of America 973 Peachtree St NE Atlanta 5 Ga  
Windsor Shower Door Co 4532 San Fernando Glendale 4 Cal

**WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX**

### ▶ DOORS, SIDEWALK

Adams Co Dubuque Iowa  
**BILCO CO BOX 1203 WEST HAVEN 5 CONN**

Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**

Fries & Son Covington Ky  
Logan Co 201 Cabel Louisville 6 Ky  
Metal Crafters East Av at 18th NE Cedar Rapids Iowa

### ▶ DOORS, SLIDING, RESIDENTIAL

ABC Steel Equipment Co 211 E 22nd New York NY  
ABC Steel Equipment Co Inc 17th & 1st Av Tampa 5 Fla

Accurate Metal Weatherstrip Co 216 E 26th New York NY  
**ADAMS ENGINEERING CO INC BOX 936 LITTLE RIVER BRANCH MIAMI 38 FLA**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY**

Alexander Exiner Co Merchandise Mart Chicago 54 Ill  
**AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA**

American Steel Door Co 6445 E Hildale Detroit 34 Mich  
**AMERICAN WELDING & MFG CO WARREN OHIO**

Arcadia Metal Prods 324 N 2nd Av Arcadia Cal  
Buffelen Lumber & Mfg Co Tacoma Wash  
**BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA**

**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**

Cole Mfg Co Memphis 2 Tenn  
Craftwood Prods 94 Stevenson Belleville NJ  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**

**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
Dorfla Mfg Co 1904 First Av Hibbing Minn  
**EZ-WAY SALES INC ST PAUL PARK MINN**

Farley & Loetscher Mfg Co Dubuque Iowa  
Fenster Building Prods 2250 E Grand Blvd Detroit 11 Mich

Folmar (R H) Co 205 E Riverside Dr Austin Tex  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash

Glide Windows Inc 7463 Varna Av North Hollywood Cal  
**HASKELITE MFG CORP 701 ANN NW HURD RAPIDS 2 MICH**

Hurd Millwork Corp Medford Wis  
Ideal Co 24th & Mary Waco Tex  
Ipik Plywood Co Box 248 Kenner La

**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
M & M Woodworking Co Kenton Sta Portland 3 Ore

Marquart Millwork Co 50 Ceape Oshkosh Wis  
Miller (Frank B) Mfg Co 3216 Valhalla Dr Burbank Cal

Milo Prods Co Grantham Penn  
Morgan Co 520 Oregon Oshkosh Wis  
Nasco Wood Prods Inc 402 E 108th New York 16 NY

**NATIONAL DOOR CO 163 AV A BAYONNE NJ**  
Nordahl Co 180 W Alameda Av Burbank Cal

Nudor Mfg Corp 7326 Fulton Av North Hollywood Cal  
**ONE-DER FRAME CORP 1232 N 37TH PL BOX 3068 BIRMINGHAM 3 ALA**

Orchard Bros Inc 63 Meadow Rd Rutherford NJ  
Orchard Mfg Co Easton Pa

Pannaview 13434 Raymer North Hollywood Cal  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Rock Island Millwork Co Rock Island Ill

**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
Silerest Co 100 Thomas Wausau Wis

Slide Master Glass Door & Window Co 9015 Wilshire Blvd Beverly Hills Cal  
**SLID-VIEW STEEL DOOR & WINDOW CO 321 N LA CIENEGA BLVD LOS ANGELES CAL**

**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**

US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
US Sliding Door Corp 241 Lexington Av New York 16 NY

**UNITED STATES PLYWOOD CORP 55 W 14TH NEW YORK 18 NY**  
**UNITED STEEL FABRICATORS INC WOOSTER OHIO**

Virginia Metal Prods Inc Dept A-44 Orange Va  
Vista Sliding Doors 7052 Laurel Canyon Blvd North Hollywood Cal

Walker (T V) & Son Inc 217 N Lake Box 547 Burbank Cal  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN**

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
**WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL**

### ▶ DOORS, SOFTWOOD

Aetna Plywood & Veneer Co 1732 N Elston Av Chicago 22 Ill  
American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo

Angel Novelty Co 340 Broad Fitchburg Mass  
Cole Mfg Co Box 2657 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND CLINTON IOWA**

Dyke Bros Little Rock Ark  
Farley & Loetscher Mfg Co Dubuque Iowa  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash

Goshen Sash & Door Co E Purl St Goshen Ind  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa

Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo  
Hyde-Murphy Co Murphy Bldg Ridgeway Pa

**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
M & M Woodworking Co Resprent Div 2301 N Columbia Portland 3 Ore

Marquart Millwork Co 50 Ceape Oshkosh Wis  
Mauk Seattle Lumber Co 3935 University Way Seattle 2 Wash

Morgan Co 520 Oregon Oshkosh Wis  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash

Pacific Mutual Door Co Tacoma Wash  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Quincy Adams Colonial Doors 118 Maple Manchester NH

Inoach & Musser Co Muscatine Iowa  
Robinson Plywood & Timber Co Box 904 Everett Wash  
Rock Island Millwork Co Rock Island Ill  
Sezelke & Kohlhaus Co 600 S Second La-Crosse Wis  
Silerest Co 100 Thomas Wausau Wis  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

**UNKEE STATES PLYWOOD CORP DEPT 615 55 W 44TH NEW YORK 18 NY**  
**WARASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**

### ▶ DOORS, ROLLING, STEEL

Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY  
Kinnear Mfg Co 5120 Fields Av Columbus 16 Ohio  
Lawrence Steel Co 5746 Venice Blvd Los Angeles 35 Cal  
Mahon (R C) Co Box 4666 Detroit 34 Mich  
**MICHEL & PEPPER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL**  
Steelbilt Inc 18001 S Figueroa Gardena Cal  
Wilson (J G) Corp 372 Lexington Av New York 17 NY

### ▶ DOORS, ROLLING, WOOD

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Capitol Prods Co 118 S Third Springfield Ill  
Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash  
Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Silerest Co 100 Thomas Wausau Wis  
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis  
Wilson (J G) Corp 372 Lexington Av New York 17 NY

### ▶ DOORS, STORM, WOOD & METAL

Also Inc 260 S Forge Akron 8 Ohio  
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky  
Angel Novelty Co Fitchburg Mass  
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus 6 Ohio  
Buffelen Lumber & Mfg Co Tacoma Wash  
Burke Millwork Co Seattle 3 Wash  
**CARR, ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Cole Mfg Co Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
Eagle Picher Co American Bldg Cincinnati 1 Ohio  
Farley & Loetscher Mfg Co Dubuque Iowa  
Georgia-Pacific Plywood Co Acme Door Div Queen & Lincoln Hoquiam Wash  
**GRREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
Hollister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
Huttig Mfg Co Muscatine Iowa  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
M & M Woodworking Co Kenton Sta Portland 3 Ore  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Melony Door Co 2410 Terminal Tower Cleveland Ohio  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Phoenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis  
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill  
Rock Island Millwork Co Rock Island Ill  
Schumacher (F E) Co 200 Mill Hartville Ohio  
Silerest Co 100 Thomas Wausau Wis  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
Weather-Proof Co 1109 E 40th Cleveland 3 Ohio  
Wheeler Osgood Co 1216 St Paul Tacoma 1 Wash  
White Pine Sash Co E 4005 Broadway Spokane Wash  
Window Conditioning Co 32 Brown Barberton Ohio  
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

### ▶ DRAINS, FLOOR

Adams Co Box 768 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Harris Inc 200 E Long Columbus Ohio  
Heinz (Wm V) 935 Hennepin Av La Salle Ill  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
Louden Machinery Co 261 Court Fairfield Iowa  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
Modern Iron Wks 540 S 5th Quincy Ill  
National Lead Co 111 Broadway New York 6 NY  
Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY  
Vestal Mfg Co Box 152 Sweetwater Tenn  
Western Foundry Co 2400 SW Water Av Portland 1 Ore  
Wilmington Casting Co 258 Charles Wilmington Ohio  
Zurn (J A) Mfg Co Erie Pa

### ▶ DRAINS, ROOF

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
National Lead Co 111 Broadway New York 6 NY  
Wilmington Casting Co 258 Charles Wilmington Ohio  
Zurn (J A) Mfg Co Erie Pa

### ▶ DRESSERS, GRINDING WHEEL

**BEHR-MANNING CORP 1554 SEIFERT TROY NY**  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**CALDER MFG CO 631 N PRINCE LANCASTER 3 PA**  
Carboloy Dept General Elec Co 11177 E Eight-Mile Rd Box 237 Detroit 32 Mich  
Collmer Bros 420 S St Joseph South Bend 1 Ind  
Hanchett Mfg Co 906 N State Big Rapids Mich  
Karelsen (E) Inc 125 W 45th New York 19 NY

### ▶ DRILL PRESSES

**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
**BOICE CRANE CO 1000 W CENTRAL AV TOLEDO 6 OHIO**  
Champion Blower & Forge Co Lancaster Pa  
Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON PITTSBURGH 8 PA**  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Toolkraft Corp Plainfield St Springfield 1 Mass  
Walker-Turner Co Div Kearney & Trecker Corp 639 South Av Plainfield NJ

### ▶ DRILLS, BRICK, CONCRETE, TILE

Ackerman-Johnson Co 625 W Jackson Blvd Chicago 6 Ill  
Arro Expansion Bolt Co 1420 N Boone Av Marion Ohio  
Baltimore Tool Wks 1110 Race Baltimore 30 Md  
**BLACK & DECKER MFG CO TOWSON MD**  
Brush Nail Expansion Bolt Co Greenwich Conn  
Carboloy Dept General Elec Co 11177 E Eight-Mile Rd Box 237 Detroit 32 Mich  
Chicago Expansion Bolt Co 1338 W Concord Chicago 12 Ill  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio  
Cleveland Twist Drill Co 1242 E 49th Cleveland 14 Ohio  
Damascus Steel Prods Corp Rockford Ill  
Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ  
Gardner-Denver Co Quincy Ill  
Holub Industries Inc 413 De Kalb Av Syracuse 11  
Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa  
Kennametal Inc Latrobe Pa  
Kraeuter & Co Newark NJ  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
Mophisto Tool Co Inc Box 16 Hudson NY  
**MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS**

New England Carbide Tool Co 60 Brookline Cambridge 39 Mass  
Paine Co Fullerton & Westgate Rd Addison Ill  
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal  
Rainey-Tools Grove City Pa  
Rawplug Co Inc Industrial Div 271 Church New York 13 NY  
**RSD DEVIL TOOLS 130 COIT IRVINGTON NJ**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Star Expansion Bolt Co 147-149 Cedar New York 6 NY  
Super Tool Co 21650 Hoover Rd Detroit 13 Mich  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**  
Tilden Tool Mfg Co 209 Los Molinos San Clemente Cal  
US Expansion Bolt Co State St & PRR York Pa  
Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass  
Warwood Tool Co Wheeling W Va  
Wodaek Electric Tool Corp 4627 W Huron Chicago 44 Ill

### ▶ DRILLS, ELECTRIC, PORTABLE

Albertson & Co Inc Sioux City 3 Iowa  
**BLACK & DECKER MFG CO TOWSON 4 MD**  
**BRADFORD MACHINE TOOL CO 656-671 EVANS CINCINNATI 4 OHIO**  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio  
Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio  
**CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL**  
Denver Floor & Safety Supply Co 3801 High Denver Colo  
**DREMEL MFG CO 2420 18TH RACINE WIS**  
**FASCIO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY**  
Hayden Twist Drill Co 8626 Lyndon Detroit 38 Mich  
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
Kett Tool Co 5 E Third Cincinnati 2 Ohio  
Louisville Electric Mfg Co Louisville Ky  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
Millers Falls Co Greenfield Mass  
**MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS**  
Pioneer Gen-E-Motor Corp 8541 W Dickens Chicago 39 Ill  
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill  
**PORTER CABLE MACHINE CO 1714 N SAILINA SYRACUSE 8 NY**  
**RCS TOOL SALES CORP BOX 1434 JOLIET ILL**  
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
Speedway Mfg Co 1834 S 52nd Cicero Ill  
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**  
The Power Tool Co 175 N State Aurora Ill  
Tilden Tool Mfg Co 209 Los Molinos San Clemente Cal  
Union Twist Drill Co 70 Monroe Athol Mass  
US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio  
Wodaek Electric Tool Corp 4627 W Huron Chicago 44 Ill

### ▶ DRILLS, GLASS

Barrett (William L) 34 School Bristol Conn  
Red Devil Tools 130 Coit Irvington NJ  
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

### ▶ DRILLS, RIGHT ANGLE, ELECTRIC

**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Kett Tool Co 5 E 3rd Cincinnati 2 Ohio  
Millers Falls Co Wells & Devon Greenfield Mass  
**MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS**

### ▶ DRILLS, WELL

**BUCYRUS-ERIE CO SOUTH MILWAUKEE WIS**  
Consolidated Industries Inc Mixville Rd West Chesire Conn  
Ka-Mo Tools Inc 1845 S 55th Chicago 23 Ill

## ▶ DRILLS, WOOD

Cleveland Twist Drill Co 1242 E 49th Cleveland 14 Ohio  
Deuse (E W) Co Chester Conn  
Forest City Bit & Tool Co 1206 Kishwaukee Rockford Ill  
Garner (R D) Co Inc 106 Hospital Providence RI  
General Hdwe Mfg Co Inc 80 White New York 13 NY  
Graham (John H) & Co Inc 105 Duane New York 8 NY  
Greenfield Tap & Die Corp Greenfield Mass  
GREENLEE TOOL CO 2136 12TH ROCKFORD ILL  
Hayden Twist Drill Co 8626 Lyndon Detroit 38 Mich  
Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio  
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL  
MILWAUKEE ELECTRIC TOOL CORP 5316 W STATE MILWAUKEE 8 WIS  
Sibley (Edw L) Mfg Co Inc 222 W Main Bennington Vt  
STANLEY WKS 111 ELM NEW BRITAIN CONN  
Star Bit & Tool Co Rockford Ill  
Syracuse Twist Drill Co Inc 1046 S Townsend Syracuse 3 NY  
Thor Power Tool Co 175 N State Aurora Ill

## ▶ DRIVERS & FASTENERS, CARTRIDGE ACTUATED TYPE

POWDER POWER TOOL CO 7526 SW MACADAM PORTLAND 1 ORE  
RAMSET DIV OLIN INDUSTRIES INC 12117 BERE RD CLEVELAND 11 OHIO  
REMINGTON ARMS CO INC 939 BARNUM AV BRIDGEPORT 2 CONN  
Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa

## ▶ DRIVERS, GLAZIER'S POINT

Fletcher Terry Co 437 South Forestville Conn  
Glazier's Tool Mfg Co 611 W Adams Chicago 6 Ill  
RED DEVIL TOOLS 130 COIT IRVINGTON NJ  
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill

## ▶ DRIVERS, STEEL POST

AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA ILL  
Northwestern Steel & Wire Co Sterling Ill

## ▶ DROP CLOTHS

American Tent & Awning Co 1132 Mission San Francisco 3 Cal  
Astrup Co 2937 W 25th Cleveland 13 Ohio  
Bemis Bros Bag Co 408 Pine Box 7 St Louis 2 Mo  
Clifton Mfg Co 323 Pleasant E Waco Tex  
Couch Bros Mfg Co 109 E Ware Av East Point Ga  
DANIELS (C R) INC 4900 BLOCK WEATHEREDSVILLE RD HILLSDALE BALTIMORE 16 MD  
Fulton Bag & Cotton Mills Atlanta 1 Ga  
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich  
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio  
Johnson (J W) Co 3100 W Randolph Bellwood Ill  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
May (D C) Co Durham NC  
New York Drop Cloth Mfg Co Inc 10-57 Jackson Av Long Island City 1 NY  
Standard Awning Co 83 Avon Hartford 5 Conn  
Stanley (William W) Co Inc 401 Broadway New York 13 NY  
Textile Industries Inc 5101 Loraine Detroit Mich  
Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

## ▶ DRYERS, AIR

Aerovent Fan Co Inc Ash & Beacon Piqua Ohio  
Atmugus Clay Co 208 W Washington Sq Philadelphia Pa  
Bailey Lumber Co Bluefield W Va  
Carrier Corp 302 S Geddes Syracuse 1 NY  
Dow Chemical Co Midland Mich  
Frigidaire Div General Motors Corp Dayton 1 Ohio  
General Air Conditioning Corp Cincinnati 9 Ohio  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
Lansdowne & Moody Houston Tex  
Peerce-Phelps 437 N 5th Philadelphia 23 Pa  
Puritan Sales Co Atlanta Ga  
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY

Tamms Industries Inc 228 N La Salle Chicago 1 Ill  
Westinghouse Elec Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass

## ▶ DRYERS, CALCIUM CHLORIDE

Dow Chemical Co Midland Mich  
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY  
Tamms Industries Inc 228 N La Salle Chicago 1 Ill

## ▶ DUCTS, ALUMINUM

Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Char-Gale Mfg Co 4325 Hiawatha Minneapolis Minn  
Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio

## ▶ DUCTS, HEATING NON-METALLIC

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind  
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
SONOCO PRODS CO SOUTH ST HARTSVILLE SC  
Superior Clay Corp Uhrichsville Ohio  
Universal Concrete Pipe Co Inc 297 S High Columbus 15 Ohio

## ▶ DUCTS, SHEET METAL

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Continental Steel Corp Kokomo Ind  
Gleher Inc 1900 Kendall NE Washington 2 DC  
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS  
MAJESTIC CO HALL ST HUNTINGTON IND  
Mueller Climatrol Corp 2005 W Oklahoma Milwaukee 15 Wis  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY  
Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio

## ▶ DUMPS, ASH, FIREPLACE

Adams Co Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Anchor Div Stratton & Terstegge Co Inc Box 311 300 Culbertson Av New Albany Ind  
BENNETT-IRELAND CO 23 STATE NORWICH NY  
Builders Brick Co 3800 9th Av S Seattle 8 Wash  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
Colonial Fireplace Co 540 N Cicero Chicago 44 Ill  
Copo Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Covert (H W) Co 339 E 48th New York NY  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich  
Harris Inc 200 E Long Columbus 15 Ohio  
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL  
MAJESTIC CO HALL ST HUNTINGTON IND  
SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL  
Sweet (A L) Iron Wks 151 Glenwood Av Medina NY  
Tristep Damper Co 645 W 42nd Seattle Wash  
Tristep Damper Co Trussville Ala  
Vestal Mfg Co Box 152 Sweetwater Tenn  
Western Foundry Co 2400 SW Water Av Portland 1 Ore

## ▶ DYES, CEMENT

Flexroek Co 36th & Filbert Philadelphia 4 Pa  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Tamms Industries Inc 228 N La Salle Chicago 1 Ill  
Trucon Laboratories Div Devco & Reynolds Co Caniff at Grand Trunk Ry Detroit 11 Mich

## ▶ EDGES, METAL ROOF

Alabama Metal Lath Co Box 992 Birmingham 1 Ala  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV CANTON 5 OHIO  
Braun (J G) Co 615 S Paulina Chicago 12 Ill  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Central Prods Co 57 Forest Battle Creek Mich  
Continental Steel Corp Kokomo Ind  
Gary-Pioneer Steel Corp Gary Ind  
Illinois Zinc Co 2959 W 47th Chicago 32 Ill  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
Klauer Mfg Co 9th & Washington Dubuque Iowa  
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
Newport Steel Corp 9th & Lowell Newport Ky  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Potts-Farrington Co 1224 Cherry Philadelphia Pa  
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
Wheeling Corrugating Co Wheeling W Va

## ▶ EDGERS, FLOOR, SANDING

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO  
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
Florboss-Habit Co 4181 W Montrose Chicago 41 Ill  
GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO  
Hiler Co 1209 St Germain St Cloud Minn  
HOLT MFG CO 651-81 20TH OAKLAND 12 CAL  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
RED DEVIL TOOLS 130 COIT IRVINGTON NJ  
SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

## ▶ ELECTRIC PUSH BUTTONS

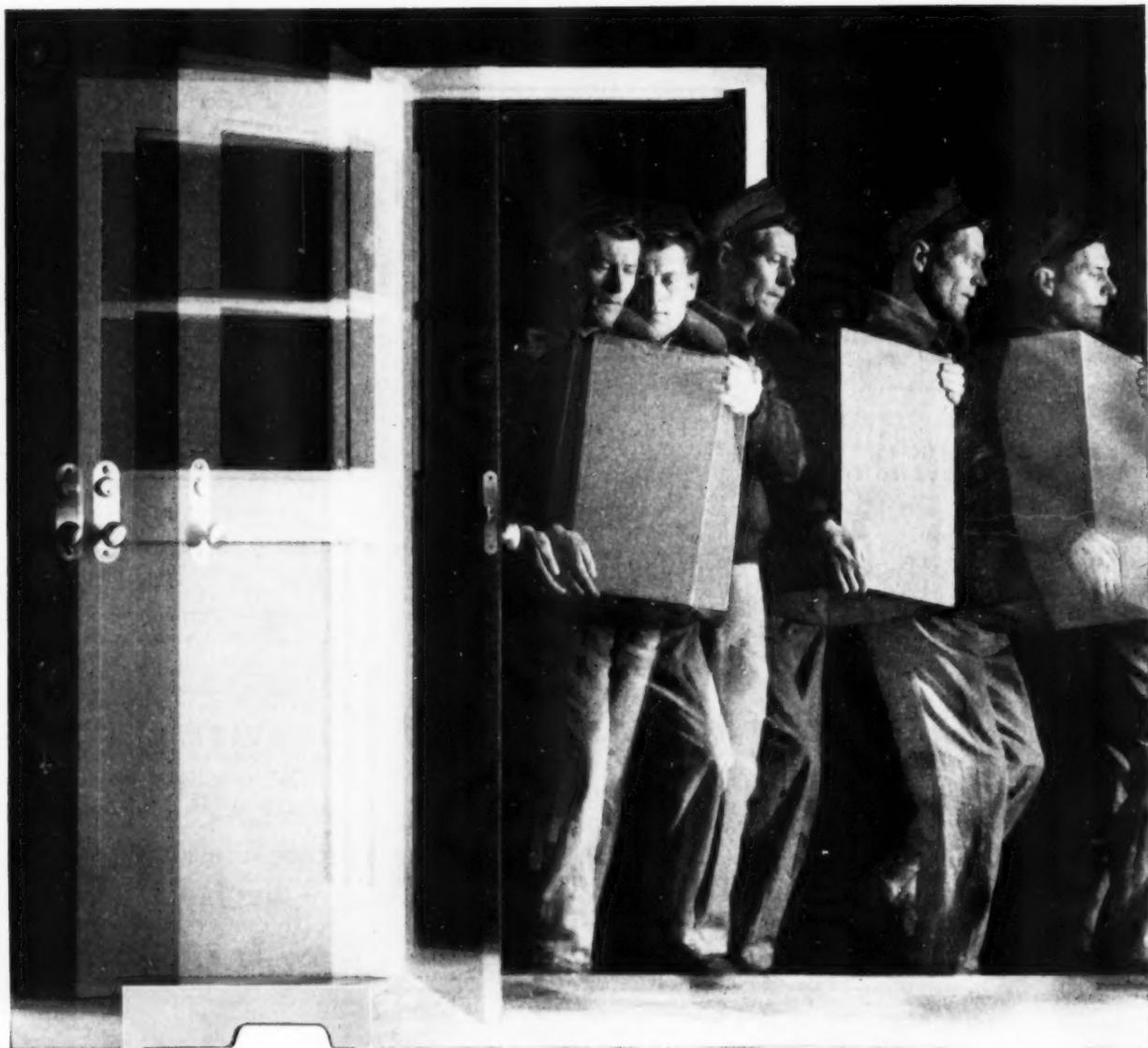
AUTH ELECTRIC CO INC 34-20 45TH LONG ISLAND CITY 1 NY  
CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN  
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY  
Liberty Bell Mfg Co Short St Minerva Ohio  
LITONE INC DEPT B-1 MADISON & RED BANK CINCINNATI 27 OHIO  
Sierra Elec & Mfg Co 544 1 31st Los Angeles Cal  
Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
Standard Bronze Co 179 W Fifth Bayonne 20 NJ  
WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA

## ▶ ELEVATORS, HAND POWER

Barrett-Cravens Co 4613 S Western Av Chicago Ill  
Bodinson Mfg Co 2403 Bayshore Blvd San Francisco Cal  
Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
Chelsea Elevator Co 549-551 W 52nd New York 19 NY  
Market Forge Co 35 Garvey Everett 49 Mass  
SEDGWICK MACHINE WKS 154 W 15TH NEW YORK 11 NY  
Sidney Elevator Mfg Co Sidney Ohio  
Whitney (Vincent) Co Box 335 Sausalito Cal

## ▶ ELEVATORS, RESIDENCE

Chelsea Elevator Co 549-51 W 52nd New York 19 NY  
Energy Elevator Co 214 New Philadelphia 6 Pa  
Inclinator Co of America 2212 Paxton Blvd Harrisburg Pa  
Kimball Brothers Co 989 Ninth Council Bluffs Iowa  
Matot (D A) Inc 1539 W Altgeld Chicago Ill  
Otis Elevator Co 260 Eleventh Av New York 1 NY  
SEDGWICK MACHINE WKS 154 W 15TH NEW YORK 11 NY  
Shelton Elevator Co 5000 Brotherton Rd Cincinnati 9 Ohio



Case history  
of CECCO on-the-job  
performance

***How 1,480,000  
delivery men  
helped make a  
better door...***



## Ceco offers hollow-metal doors with engineered hardware... built to stand hard use

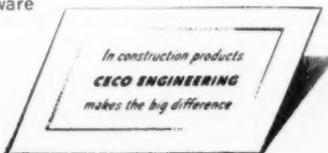
When Ceco engineers sought to make a better door, they went to the experts on "hard use" for ideas. They observed the wear and tear a door must take from 1,480,000 delivery men on the move... in a hurry... rushing in and out.

The result was four architect-wanted benefits, all incorporated in Ceco's new Hollow-Metal Doors:

**1.** Locksets that won't come loose—because doors are engineered for attaching special Yale hardware through reinforced tapped holes.

- 2.** Hinges that hold tight—doors and frames reinforced.
- 3.** Moldings that stay put—locked with drive-in pins.
- 4.** Glazing beads that won't pop out—snugged with screws.

Variations of hand, swing and hardware are supplied from basic stock units... high production cuts costs. Put these benefits to work in your next building. Write for catalog 1040-B.



**CECO STEEL PRODUCTS CORPORATION**  
Offices, warehouses and fabricating plants in principal cities • General Offices: 5601 W. 26th Street, Chicago 50, Illinois

## ▶ ENAMEL

Aeme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
Alabama Paint Prods 2629 Grand Av Chicago 12 Ill  
American-Marietta Co 101 E Ontario Chicago 11 Ill  
Aro Co 7301 Bessemer Cleveland 4 Ohio  
Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
Berry Bros Inc 21 Leib Detroit 7 Mich  
Briggs-Maroney Co Everett 49 Mass  
Burdall (A) Co 206 S Capitol Indianapolis Ind  
Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
Chicago Bronze & Color Wks 2601-12 W Grand Av Chicago 12 Ill  
Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
Chi-Namel Paint & Varnish Co 1101 Third S Minneapolis 15 Minn  
Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
Enamel Products Co Eddy Rd & Taft Av Cleveland 8 Ohio  
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio  
General Paint Corp 2627 Army San Francisco 19 Cal  
Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
Kyanize Paints Inc Second & Boston Everett 49 Mass  
Lawrence (W W) & Co 1124 W Carson Pittsburgh 19 Pa  
Lowe Bros 436 E Third Dayton 2 Ohio  
Lucas (John) & Co Inc 1619 Pennsylvania Blvd Philadelphia Pa  
Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
Masury (John W) & Son Inc 1700 Bayard St Baltimore 30 Md  
Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
Moore (Benjamin) & Co 511 Canal New York 13 NY  
Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
National Lead Co 111 Broadway New York 6 NY  
O'Brien Corp 101 N Johnson South Bend 21 Ind  
Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
PEORA PAINT CO INC 4TH & READING RR PHILADELPHIA 40 PA  
Rockford Paint Mfg Co 200 Sayre Rockford Ill  
Rogers Paint Prods Inc 8250 St Aubin Detroit 11 Mich  
St Louis Surface & Paint Co 4200 Arlington Av St Louis 20 Mo  
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 11 Ohio  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio  
United Laquer Mfg Corp 1001 W Elizabeth Av Linden NJ  
Valentine Co 11 E 36th New York 16 NY  
Vita-Var Corp 10 Commerce Ct Newark 2 NJ  
Vora Co 147 Meadow Rd Rutherford NJ  
Wadsworth Howland & Co 141 Federal Boston Mass  
Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa

## ▶ ENAMEL, FLOOR

Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio  
Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
Hoboken White Lead & Color Wks Inc 15th & Adams St Hoboken NJ  
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill

Horn (A C) Co Tenth & 44th Av Long Island 1 NY  
Keystone Varnish Co 71 Otsego Brooklyn 31 NY  
Kyanize Paints Inc Second & Boston Everett 49 Mass  
Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
Lithosen Corp 10 E 40th New York 16 NY  
Lowe Bros 436 E Third Dayton 2 Ohio  
Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
Moore (Benjamin) & Co 511 Canal New York 13 NY  
National Lead Co 11 Broadway New York 6 NY  
O'Brien Corp 101 N Johnson South Bend 21 Ind  
Pabeo Prods Inc 475 Brannan San Francisco Cal  
Patterson-Sargent Co 1325 E 38th Cleveland Ohio  
PITTSBURGH PLATE GLASS CO 632 DUQUESNE BLVD PITTSBURGH 22 PA  
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
Rockford Paint Mfg Co 200 Sayre Rockford Ill  
Sarzent-Gerke Co 323 W 15th Indianapolis Ind  
Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
Sherwin-Williams Co 101 Prospect Cleveland 1 Ohio  
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
Standard Tech Chemicals Inc 2600 Richmond Ter Staten Island 3 NY  
Steelco Mfg Co 3418 Gratiot St Louis 3 Mo  
Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

## ▶ ENCLOSURES, UNIT KITCHEN, METAL FOLDING

Orchard Bros Inc 63 Meadow Rd Rutherford NH

## ▶ ENGINES, DIESEL

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS  
Berry-Hill Corp Hill Diesel Engine Div One Washington Av Providence 5 RI  
Buda Co Harvey Ill  
Caterpillar Tractor Co 600 W Washington Peoria 8 Ill  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Cleveland Diesel Engine Div General Motors Corp Cleveland 11 Ohio  
Cummins Engine Co Inc 5th & Wilson Columbus Ind  
Fairbanks Morse & Co 600 S Michigan Av Chicago Ill  
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich  
HARNISCHFEGGER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS  
International Harvester Co 180 N Michigan Av Chicago Ill  
Nordberg Mfg Co 3073 S Chase Av Milwaukee 1 Wis  
OLIVER CORP 400 W MADISON CHICAGO 6 ILL  
Waukesha Motor Co Waukesha Wis  
Witte Engine Wks Div Oil-Well Supply Co Div US Steel Corp 1600 Oakland Kansas City 26 Mo  
Worthington Corp S Second Plainfield NJ

## ▶ ENGINES, GASOLINE

ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS  
Briggs & Stratton Corp 2711 N 13th Milwaukee 1 Wis  
Buda Co Harvey Ill  
Case (J I) Co 702 State Racine Wis  
Fairbanks Morse & Co 600 S Michigan Av Chicago Ill  
Fuller & Johnson Mfg Co Madison Wis  
HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY  
International Harvester Co 180 N Michigan Av Chicago Ill  
KOHLER CO 44 HIGH KOHLER WIS  
MASTER WOODWORKER MFG CO 409 E FORT DETROIT 26 MICH  
Novo Engine Co Ballantine St Lansing 5 Mich  
OLIVER CORP 400 W MADISON CHICAGO 6 ILL  
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill  
Ready-Power Co 3820 Grand River Av Detroit Mich  
Salisbury Motors Div Wayne Mfg Co Pomona Cal  
Universal Motor Co 517 Universal Dr Oshkosh Wis  
Waukesha Motor Co Waukesha Wis  
Witte Engine Wks Div Oil-Well Supply Co Div US Steel Corp 1600 Oakland Kansas City 26 Mo

## ▶ ENTRANCES, DOOR

AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY  
Brasco Mfg Co 152nd & Commercial Av Harvey Ill  
Burke Millwork Co Fremont Bridge Cottage 3 Wash  
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA  
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA  
Farley & Loetscher Mfg Co Dubuque Iowa  
Goshen Sash & Door Co E Park Goshen Ind  
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS  
HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY  
Huttig Mfg Co Muscatine Iowa  
Ideal Co 24th & Mary Waco Tex  
KAWNEER CO 1105 N FRONT NILES MICH  
Marquart Millwork Co 50 Cape Oshkosh Wis  
Morgan Co 520 Oregon Oshkosh Wis  
Roach & Musser Co Muscatine Iowa  
Rock Island Millwork Co Rock Island Ill  
Segeleke & Kohlhaus Co 600 S Second LaCrosse Wis  
Silcrest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
Variety Mfg & Engr Co 810 W Fulton Chicago 7 Ill

## ▶ ENTRANCES, STORE, METAL

Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis  
Brasco Mfg Co 152nd & Commercial Av Harvey Ill  
Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY  
KAWNEER CO 1105 N FRONT NILES MICH  
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio  
Rigidized Metals Corp 687 Ohio Buffalo 3 NY

## ▶ EQUIPMENT, BARBEQUE

Adams Co (The) Box 268 Dubuque Iowa  
BENNETT-IRELAND INC 23 STATE NORTH WICH NY  
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
Dearborn Stove Co 1700 W Commerce Dallas Tex  
Dunay Bros Co 13910 Miles Av Cleveland 5 Ohio  
Grilleraft Co 1067 St Clair St Paul Minn  
Hancock Iron Wks 52 W Pike Pontiac Mich  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
MAJESTIC CO HALL ST HUNTINGTON IND  
Master Metal Prods Inc 291 Chicago Buffalo 4 NY  
Ohio Stove Co 701 Eleventh Portsmouth Ohio  
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill  
Wiemann (Ernest) Iron Wks 2035 E Eleventh Tulsa 4 Okla

## ▶ EQUIPMENT, BARN

Berg Equipment Corp Marshfield Wis  
Celina Mfg Co Celina Ohio  
Clay Equipment Corp 1148 Blake Cedar Falls Iowa  
Coburn Mfg Co Whitewater Wis  
Diehl Mfg Co 1185 Funderne Av Somerville NJ  
Franklin Equipment Co Monticello Iowa  
Gardner Mfg Co Horicon Wis  
General Implement Corp Terminal Tower Cleveland 13 Ohio  
Goshen Mfg Co Goshen Ind  
Green Mfg Co Ogdensburg NY  
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
Hummer Mfg Co Springfield Ill  
James Mfg Co Fort Atkinson Wis  
Lozan Co 201 Cabell Louisville 6 Ky  
Louden Machinery Co 261 Court Fairfield Iowa  
Milwaukee Hay Tool Co Milwaukee Wis  
Mitchell Mfg Co Milwaukee 7 Wis  
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
New Mfg Co 948 High Av SW Canton Ohio  
Ohio Mfg Co 620-24 S Broadway Albert Lea Minn  
Sioux Steel Co Sioux Falls SD  
Starline Inc 300 W Front Harvard Ill  
Universal Hoist & Mfg Co Cedar Falls Iowa

## ▶ EQUIPMENT, FARM

Aerovent Fabricators Inc Ash & Benton Piqua Ohio  
ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS  
American Blower Co 8111 Tireman Detroit Mich  
American-Larson Ventilating Co Pittsburgh 22 Pa  
Arex Co 612 N Michigan Av Chicago 11 Ill  
Badger Corrugating Co LaCrosse Wis

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Kenbo Corp., builder of Rancho Monterey homes near Los Angeles, uses Drive-It "400" to fasten 2"x4" sleepers to the concrete floor slabs. Superintendents Walter Johnson and L. B. Swann, Drive-It users three years, say Drive-It fastenings are quick, dependable, economical.



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EXCLUSIVE**

**DRIVE-IT 320**  
WITH  
**BREAK-OPEN ACTION**

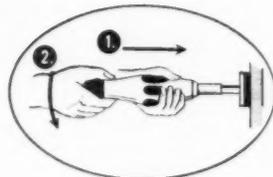
Snap open action results in the fastest operating tool on the market. Easiest method to load and eject cartridges under any condition.

*More fastenings per hour with this speedy way of loading and ejecting cartridges.*

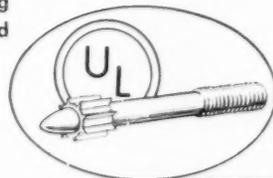
**DRIVE-IT**  
*the original* POWDER-ACTUATED TOOL



**Controlled Power.** First and only tool which requires but one standard power load regardless of penetration desired. No need to buy and stock various strength power loads.



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 Beatrice Steel Tank Mfg Co Beatrice Neb  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**BENNETT-IRELAND INC 23 STATE NORWICH NY**  
 Breyer Bros Whiting & Co Waupun Wis  
 Brower Mfg Co Quincy Ill  
 Buffalo Forge Co 490 Broadway Buffalo 4 NY  
 Butler Mfg Co 7400 E 13th Kansas City 26 Mo  
 Case (J I) Co Racine Wis  
 Century Electric Co St Louis 3 Mo  
 Clay Equipment Co 1148 Blake Cedar Falls Iowa  
 Coburn Mfg Co Whitewater Wis  
 Columbian Steel Tank Co Kansas City Mo  
 Continental Steel Corp Kokomo Ind  
 Deere & Co Moline Ill  
 Dempster Mill Mfg Co 711 S Sixth Beatrice Neb  
 Des Moines Steel Tank Co Independence Mo  
 Diehl Mfg Co Electrical Div Singer Mfg Co 1100 Funderne Av Somerville NJ  
 Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill  
 Freeland Sons Co Sturgis Mich  
 Gehl Bros Mfg Co West Bend Wis  
**GENERAL ELECTRIC CO AIR CONDITIONING DEPT 5 LAWRENCE BLOOMFIELD NJ**  
 General Implement Corp Terminal Tower Cleveland 13 Ohio  
 Goshen Mfg Co Goshen Ind  
 Hargrove Co (The) 4th & New York Des Moines Iowa  
 Hastings Equity Grain Bin Mfg Co Hastings Neb  
**HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY**  
 Hudson (H D) Mfg Co 589 E Illinois Chicago Ill  
 Ilg Electric Ventilating Co 2850 N Crawford Av Chicago 41 Ill  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 International Harvester Co 180 N Michigan Av Chicago 1 Ill  
 James Mfg Co Fort Atkinson Wis  
 Kalamazoo Tank & Silo Co 508 Harrison Kalamazoo Mich  
 King Co Owatonna Minn  
 Klauer Mfg Co 9th & Washington Dubuque Iowa  
 LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
 Massey Harris Co Inc Racine Wis  
 Midland Co 1200 W Rawson Av South Milwaukee Wis  
 M-Line Iron Wks Moline Ill  
 Mundie Mfg Co Peru Ind  
 Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
 Nash (J M) Co 31350 Detroit Rd Westlake Ohio  
 National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa  
 New Mfg Co 48 High Av SW Canton Ohio  
 Olson Mfg Co 620-24 S Broadway Albert Lea Minn  
 Paper Machine Co Shortsville NY  
 Patch (A H) Inc Clarksville Tenn  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Queen Stove Wks Albert Lea Minn  
 Robinson Clay Prods Co 2nd National Bank Bldg Akron Ohio  
 Robinson Ventilating Co Zelenople Pa  
 Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn  
 Safeguard Div Grand Sheet Metal Prods Co 2055 Ruby Melrose Park Ill  
 Sargent-Roundy Corp Randolph Vt  
 Shaw (H C) Co Staekton Cal  
 Siebring Mfg Co Peven St George Iowa  
 Sioux Steel Co Sioux Falls SD  
 Starline Inc 300 W Front Harvard Ill  
 Super-Structures Inc Albert Lea Minn  
 Sweet (A L) Iron Wks 151 Glenwood Av Medina NY  
 Trumbull Components Dept General Electric Co Plainville Conn  
 US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill  
 Universal Hoist & Mfg Co Cedar Falls Iowa  
 White's (S R) Sons Inc Norfolk Va  
 Willis Steel Corp Box 149 Galesburg Ill

### ► EQUIPMENT, FIREPLACE

Adams Co Dubuque Iowa  
 Anchor Div Stratton & Terstege Co Inc Box 311 300 Culbertson Av New Albany Ind  
**BENNETT-IRELAND CO 23 STATE NORWICH NY**  
 Builders Brick Co 3800 Ninth Av S Seattle 8 Wash  
 Builder's Fireplace & Supply Co 2604 Link Houston Tex  
 Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich  
 Chattanooga Royal Co East Chattanooga Tenn  
 Chattanooga Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Colonial Fireplace Co 540 N Cicero Chicago Ill  
 Columbia Brick Wks 3120 SE Water Av Portland 14 Ore

Covert (H W) Co 329 E 48th New York 17 NY  
 Donley Bros Co 12010 Miles Av Cleveland 5 Ohio  
 Fox Valley Forge Elgin Ill  
 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
**HEATILATOR INC 661 E BRIGHTON AV SYRACUSE 5 NY**  
 Howes (S M) Inc 387 Oliver Fall River Mass  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
 Logan Co 201 Cabell Louisville 6 Ky  
 MacQueen Service 312 Savings & Trust Bldg Butler Pa  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Metal Crafters Cedar Rapids Iowa  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
**OHIO FOUNDRY & MFG CO STEUBENVILLE OHIO**  
 Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky  
 Pioneer Co 1051 Century Bldg Pittsburgh 22 Pa  
**READYBUILT PRODS CO 1707 MCHENRY BALTIMORE 23 MD**  
 Rustic Crafts Co Inc Englewood NJ  
 Sheffield Mfg Co 119 W 25th New York NY  
 Smith (F P) Wire & Iron Wks 2346 N Clybourn Av Chicago 14 Ill  
 Smith (John P) Co New Haven Conn  
 Special Prods Co Judd St Chattanooga 6 Tenn  
 Thermo-Rite Mfg Co Akron 11 Ohio  
 Vestal Stove Co Box 152 Sweetwater Tenn  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ► EQUIPMENT, HOG

Adams-Thuma Co Jamestown Ohio  
 Beatrice Steel Tank Mfg Co Beatrice Neb  
 Bernard (Philip) Co Sioux City Iowa  
 Brower Mfg Co Box 251 Quincy Ill  
 Celina Mfg Co Celina Ohio  
 Clay Equipment Corp 148 Blake Cedar Falls Iowa  
 Clearwater Tank Co 810 E English Danville Ill  
 Franklin Equipment Co Monticello Iowa  
 Hargrove Co 4th at New York Des Moines Iowa  
 Hastings Equity Grain Bin Mfg Co Hastings Neb  
 Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
 James Mfg Co Ft Atkinson Wis  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Loudon Machinery Co Fairfield Iowa  
 Martin Steel Prods Co 11 W Longview Mansfield Ohio  
 Milwaukee Hay Tool Co 2773 S 29th Milwaukee Wis  
 National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa  
 Ney Mfg Co 948 High Av Canton 4 Ohio  
 Oakes Mfg Co Inc 516 Dearborn Tipton Ind  
 Olson Mfg Co 620-24 S Broadway Albert Lea Minn  
 Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa  
 Red Cross Mfg Co Bluffton Ind  
 Sioux Falls Metal Culvert Co Sioux Falls SD  
 Starline Inc 300 W Front Harvard Ill

### ► EQUIPMENT, POULTRY

American Lincoln Incubator Co 645 Somerset New Brunswick NJ  
 American Line Lowell Mich  
 Anderson Box Co 700 W Morris St Indianapolis 6 Ind  
 Baltimore Paper Box Co Key Hwy Baltimore Md  
 Beatrice Steel Tank Mfg Co Beatrice Neb  
 Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati Ohio  
 Brower Mfg Co Quincy Ill  
 Buckeye Incubator Co Box 420 504 W Euclid Av Springfield Ohio  
 Close-To-Nature Co Colfax Iowa  
 Cyclone Mfg Co Urbana Ind  
 Diehl Mfg Co 1185 Funderne Av Somerville NJ  
 Excel Metal Cabinet Co Inc Jamestown NY  
 Excelsior Stove & Mfg Co Quincy Ill  
**GENERAL ELECTRIC CO AIR CONDITIONING DEPT 1285 BOSTON AV BRIDGEPORT CONN**  
 General Implement Corp Terminal Tower Cleveland 13 Ohio  
 Green Lumber Co Laurel Miss  
 Harder Silo Co Cobleskill NY  
 Heller-Allen Co Napoleon Ohio  
 Hopson (W C) Co 216-20 Grandville Av Grand Rapids 2 Mich  
 Hudson (H D) Mfg Co 589 E Illinois Chicago Ill  
 James Mfg Co Ft Atkinson Wis

**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Keen Equipment Co Inc Vineland NJ  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Lancaster Mfg Co Lancaster Pa  
 Leaky Mfg Co Higginsville Mo  
 Lyon Rural Electric Co 2075 Moore San Diego 12 Cal  
 Macomb Steel Prods Co Macomb Ill  
 Miller (J W) Co Rockford Ill  
 National Ideal Co 914 Summit Toledo 4 Ohio  
 National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa  
 New Era Equipment Co Trenton NJ  
 Oakes Mfg Co Inc 516 Dearborn Tipton Ind  
 Paragon Utilities Corp 50 Van Dam Brooklyn NY  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO**  
 Petaluma Electric Incubator Co 416 East D Petaluma Cal  
 Quinn Wire & Iron Wks Boone Iowa  
 Reliable Incubator & Brooder Co Quincy Ill  
**RILCO LAMINATED PRODS INC FIRST NATIONAL BANK BLDG ST PAUL 2 MINN**  
 Royal Mfg Co Bowling Green Ohio  
 Sheer (H M) Co Quincy Ill  
 Simple Brooder Stove Co 220 Grandville Av SW Grand Rapids 2 Mich  
 Starline Inc 300 E Front Harvard Ill  
 Sure-Hatch Incubator Co Fremont Neb  
 Trumbull Electric Mfg Co Plainville Conn  
 United Steel & Wire Co Battle Creek Mich  
 Washash Paper Box Co Terre Haute Ind  
 Western Stoneware Co Monmouth Ill

### ► ESCAPES, FIRE

**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO**  
 Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis  
 Belson Mfg Co East River Rd North Aurora Ill  
 Davy Automatic Fire Escape Co Colvin Sta Syracuse 5 NY  
 General Detroit Corp 2272 E Jefferson Detroit 7 Mich  
 Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich  
 Logan Co 201 Cabell Louisville Ky  
**MESKER (GEORGE L.) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND**  
 Metal Crafters East Av at 18th NE Cedar Rapids Iowa  
 St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn  
 Smith (F P) Wire & Iron Wks 2340 N Clybourn Chicago 14 Ill  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

### ► ESTIMATING SERVICES

Goshen Sash & Door Co E Purl Goshen Ind  
 Raymond Lumber Co Tomahawk Wis  
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 Tanager Systems 1420 Gilpin Denver 6 Colo  
 Underwood Corp 1 Park Av New York 16 NY

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 Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind  
 Hardboard Fabricators 59 Branch St Louis 7 Mo  
 Illinois Lumber Mfg Co Inc Cairo Ill  
 Pacific Board Fabricators 633 E Gage Los Angeles 1 Cal  
**TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC**  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**  
**WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL**

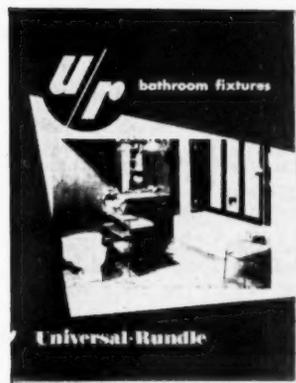
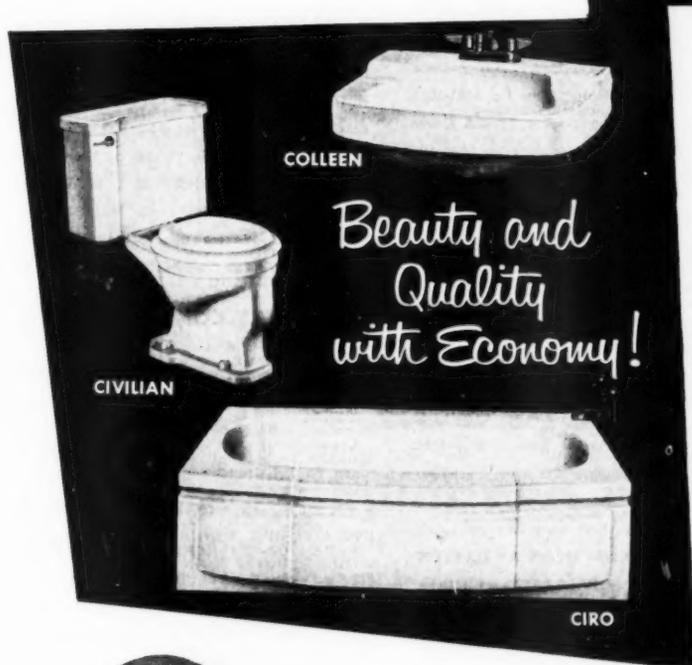
### ► FABRIC, REINFORCING

**AMERICAN STEEL & WIRE DIV UNITED STATES STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
 Forbes Steel Corp Cannonsburg Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Laclede Steel Co Arcade Bldg St Louis Mo  
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APRIL 1954

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Ryerson (Joseph T) & Son 2558 W 61st Chicago 8 Ill  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Soule Steel Co 1750 Army San Francisco 24 Cal  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1950 ALBERT YOUNGSTOWN 1 OHIO**  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ► FANS, EXHAUST, WALL & CEILING, ATTIC & KITCHEN

Acme Equipment Co 213 E Broadway Muskegon Okla  
 Aerovent Fan Co Inc Ash & Beacon St Piqua Ohio  
 Air Controls Inc 2310 Superior Av Cleveland 14 Ohio  
 Airmaster Corp 4317 Ravenswood Av Chicago 13 Ill  
 American Blower Corp Div American Radiator & Standard Sanitary Corp Tireman Av at Roselawn Detroit 32 Mich  
 American Coolair Corp 3694 Mayflower Jacksonville 3 Fla  
**AMERICAN KITCHENS DIV AVCO MFG CO 18TH & COLUMBIA CONNERSVILLE IND**  
 Arco Co 612 N Michigan Av Chicago 11 Ill  
 Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex  
 Autovent Fan & Blower Co 222 W Adams Chicago 6 Ill  
 Bar-Brook Mfg Co Box 738 C G Station Shreveport La  
**BERNS MFG CORP 3950 N ROCKWELL CHICAGO 18 ILL**  
 Biglin (H C) Co Inc 177 Harris NW Atlanta 3 Ga  
 Broan Mfg Co Inc 1669 N Water Milwaukee 2 Wis  
 Buffalo Forge Co 490 Broadway Buffalo 4 NY  
 C & H Air Conditioning Fan Co 1693 DeKalb Atlanta Ga  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
 Champion Blower & Forge Co Lancaster Pa  
 Chelsea Fan & Blower Co Inc 1206 S Grove Irvington 11 NJ  
 Clarence Fan Co Kalamazoo 16 Mich  
 Cleveland Heater Co 2310 Superior Av NE Cleveland 14 Ohio  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANSAS**  
 Cook (Loren) Co 664 Front Berea Ohio  
**CROSLLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO**  
 Dana Fan & Blower Corp 3501 Colerain Av Cincinnati Ohio  
 De Bothezat Fans Div American Machine & Metals Inc East Moline Ill  
 Diehl Mfg Co Electrical Div Singer Mfg Co Somerville NJ  
**EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO**  
**FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY**  
 Folsom Co Inc 3104 Oak Lane Dallas 10 Tex  
**FRIGID INC 128-160 32ND BROOKLYN 32 NY**  
 General Blower Co Morton Grove Ill  
 General Electric Co Small Appliance Div 1285 Boston Av Bridgeport 2 Conn  
 Giehner Inc 1900 Kendall NE Washington 2 DC  
 Gilbert (A C) Co Erector Sq New Haven 6 Conn  
**GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL**  
 Harris Inc 209 E Long Columbus Ohio  
**HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY**  
**HUNTER FAN & VENTILATING CO 381 S FRONT MEMPHIS 2 TENN**  
 Huntington Industries Inc 2368 Prospect Memphis Tenn  
 Ilg Electric Ventilating Co 2850 N Crawford Av Chicago 41 Ill  
 International Engineering Inc Dayton 2 Ohio  
 James Mfg Co Fort Atkinson Wis  
**LAU BLOWER CO 2901 HOME AV DAYTON 7 OHIO**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Murray Co of Texas Dallas Tex  
 National Appliance Co 4814 W Vernor Hy Detroit 9 Mich  
 National Gas Equipment Co Inc Box 443 Terrell Tex  
**NUTONE INC RED BANK & MADISON RD CINCINNATI 27 OHIO**  
 Peerless Electric Co 1401 W Market Warren Ohio  
 Propellaire Inc 1346 LaGonda Springfield Ohio  
**PRYNE & CO INC 140 N TOWNE PO BOX 3070 CAL**  
 Reed Unit-Fans Inc 1001 St Charles Av New Orleans 8 La  
 Robbins & Myers Inc 1345 LaGonda Av Springfield 99 Ohio

Russell Electric Co 4501 S Western Chicago Ill  
 Schwitzer-Cummins Co 1125 Massachusetts Av Indianapolis 7 Ind  
 Sh et Metal Prods Co 2801 Henderson Kilgore Tex  
**SHEPLER MFG CO 1229 GOEBEL PITTSBURGH 33 PA**  
 Signal Electric Co 1821 13th Menominee Mich  
 Sin-Jin Prods Co 5236-40 Fairlawn Av Baltimore 15 Md  
 Standard Electric Mfg Inc Haddon Av West Berlin NJ  
 Starline Inc 300 W Front Harvard Ill  
 Stewart Mfg Co 3299 E Washington Indianapolis Ind  
 Stewart (S J) Electric Co 527-531 St Joseph New Orleans 12 La  
 Sutton (O A) Corp 1812 W 2nd Wichita Kansas  
**TRADE-WIND MOTORFANS INC 5725 S MAIN LOS ANGELES CAL**  
 Trane Co 3rd & Cameron LaCrosse Wis  
 United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn  
 Universal Blower Co 1099 S Adams Av Birmingham Mich  
 Uno Ventilator Co 1236 Eastern Av Malden 4 Mass  
 Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal  
 Viking Air Conditioning Corp Cleveland Ohio  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 216 E 4TH MANSFIELD OHIO**  
 Westinghouse Electric Corp Electric Appliance Div 653 Page Blvd Springfield 2 Mass  
 West Wind Corp 1800 Airport Way Seattle 4 Wash  
 Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
 Winco Ventilator Co 4725 Goodfellow St Louis 20 Mo  
 Zink (John) Co 4401 S Peoria Tulsa 1 Okla

### ► FANS, PORTABLE, WINDOW VENTILATING

Aerovent Fan Co Inc Ash & Beacon St Piqua Ohio  
 Air Controls Inc 2310 Superior Av Cleveland 14 Ohio  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Coolair Corp 3694 Mayflower Jacksonville 3 Fla  
 Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo  
 Bar-Brook Mfg Co 6133 Linwood Av Shreveport La  
 Biglin (H C) Co Inc 177 Harris NW Atlanta 3 Ga  
 C & H Air Conditioning Fan Co 1591-1623 DeKalb Av NE Atlanta Ga  
 Chelsea Fan & Blower Co Inc 1206 S Grove Irvington 11 NJ  
 Cleveland Heater Co 2310 Superior Av NE Cleveland 14 Ohio  
**CONSOLIDATED VENETIAN BLIND CO DIV CONSOLIDATED GENERAL PRODS INC 2401 NICHOLSON BOX 7425 HOUSTON 8 TEX**  
 Diehl Mfg Co Electrical Div Singer Mfg Co Somerville NJ  
**EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO**  
**FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY**  
 Folsom Co Inc 3104 Oak Lane Dallas 10 Tex  
 General Electric Co Small Appliance Div 1285 Boston Av Bridgeport 2 Conn  
**GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL**  
 Hartzell Propeller Fan Co Div Castle Hills Corp Piqua Ohio  
**HUNTER FAN & VENTILATING CO 400 S FRONT MEMPHIS 2 TENN**  
 Ilg Electric Ventilating Co 2850 N Crawford Av Chicago 41 Ill  
 International Oil Burner Co 3800 Park Av St Louis 10 Mo  
 James Mfg Co Fort Atkinson Wis  
 Kisco Co Inc 2400-40 DeKalb St Louis 4 Mo  
 Knapp-Monarch Co 3501 Bent Av St Louis Mo  
**LAU BLOWER CO 2901 HOME AV DAYTON 7 OHIO**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
 Murray Co of Texas Dallas Tex  
 National Gas Equipment Co Inc Box 443 Terrell Tex  
 Reed Unit-Fans Inc 1001 St Charles Av New Orleans 8 La  
 Robbins & Myers Inc 1345 LaGonda Av Springfield 99 Ohio  
 Schwitzer-Cummins Co 1125 Massachusetts Av Indianapolis 7 Ind  
 Signal Electric Co 1821-13th Menominee Mich  
**SUPERIOR ELECTRIC PRODS CORP 1507-17 INDEPENDENCE CAPE GIRARDEAU MO**  
 Sutton (O A) Corp 1812 W 2nd Wichita Kansas  
 Viking Air Conditioning Corp 5601 Walworth Av Cleveland 2 Ohio  
 Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass

**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 216 E 4TH MANSFIELD OHIO**  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Westinghouse Electric Corp Electric Appliance Div 653 Page Blvd Springfield 2 Mass  
 Winco Ventilator Co 4725 Goodfellow St Louis 20 Mo

### ► FANS, VENTILATING, BARN, ELECTRIC

Aerovent Fabricators Inc Ash & Benton St Piqua Ohio  
 Air Controls Inc 2310 Superior Av Cleveland 14 Ohio  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Coolair Corp 3694 Mayflower Jacksonville 3 Fla  
 American Foundry & Furnace Co 125 N McClun Bloomington Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 C & H Air Conditioning Fan Co 1591-1623 De Kalb Av NE Atlanta Ga  
 Diehl Mfg Co 1185 FINDERLE Av Somerville NJ  
**EMERSON ELECTRIC MFG CO 8100 FLORISSANT AV ST LOUIS 21 MO**  
**FASCO INDUSTRIES INC 255 N UNION ROCHESTER 2 NY**  
 General Electric Co Small Appliance Div 1285 Boston Av Bridgeport 2 Conn  
**GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL**  
**HUNTER FAN & VENTILATING CO 400 S FRONT MEMPHIS 2 TENN**  
 Ilg Electric Ventilating Co 2850 Crawford Av Chicago 41 Ill  
 International Engineering Inc 1200 Bolander Av Dayton 1 Ohio  
 James Mfg Co Fort Atkinson Wis  
**LAU BLOWER CO 2901 HOME AV DAYTON 7 OHIO**  
 Loudon Machinery Co 1120 Broadway Fairfield Iowa  
 Ney Mfg Co 948 High Av SW Canton 4 Ohio  
 Peerless Electric Co 1401 W Market Warren Ohio  
 Robbins & Myers Inc 1345 LaGonda Av Springfield Ohio  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**

### ► FASTENERS, ASBESTOS, CEMENT, SIDING

**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 E G Building Fasteners Corp 101 Park Av Room 1133 New York 17 NY  
 Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ  
 Fabricated Prods Co Inc Water St West Newton Pa  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
 Tinnerman Prods Inc Dept No 16 Box 6688 Cleveland 1 Ohio  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ► FASTENERS, CONCRETE FORM

Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
 Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind  
 Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich

### ► FASTENERS, FIBER, WALLBOARD

**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS MINN**  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tinnerman Prods Inc Dept No 16 Box 6688 Cleveland 1 Ohio  
**UPSON CO 43 UPSON PT LOCKPORT NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WOOD CONVERSION CO DEPT 184-21 FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ► FASTENERS, LATH, METAL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**BERGER MFG DIV REPUBLIC STEEL CORP 1938 BELDEN AV CANTON 5 OHIO**  
 Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**

Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Soule Steel Co San Francisco 24 Cal  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

▶ **FASTENERS, STEEL, CORRUGATED**

Acme Steel Co 2841 Archer Av Chicago 8 Ill  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 Fabricated Prods Co Inc Water St West Newton Pa  
 Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY  
 Larson (Charles O) Co Av "G" & C&NW By Sterling Ill  
 Packard (E B) Co 139 Cedar New York 6 NY  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
 Signole Steel Strapping Co 2600 N Western Av Chicago 47 Ill  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**

▶ **FASTENERS, WOOD JOINT**

Acme Steel Co 2841 Archer Av Chicago 8 Ill  
**ARROW FASTENER CO INC 1 JUNIUS BROOKLYN 12 NY**  
 Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY  
 Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Lamson & Sessions Co 1971 W 85th Cleveland 2 Ohio  
 Packard (E B) Co 139 Cedar New York 6 NY  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
**RODDIS PLYWOOD CORP 115 S PALMETTO MARSHFIELD WIS**  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**

Superior Fastener Corp 2949 Elston Av Chicago 18 Ill  
**TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 6 DC**  
 Wright Prods Co St Paul Minn

▶ **FELT, ROOFING**

Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Asbestos Co of Texas Div Philip Carey Mfg Co Box 1082 Houston 1 Tex  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER ARMORE PA**  
 Gichner Inc 1990 Kendall NE Washington 2 DC  
 Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind  
 Lehon Co 4425 S Oakley Chicago 9 Ill  
 Logan-Long Co 6600 S Central Av Chicago 38 Ill  
 Nelson (B F) Mfg Co 401 NE Main Minneapolis 13 Minn  
 Protective Papers Union Ill  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

▶ **FELT, ROOFING, ASPHALT, IMPREGNATED**

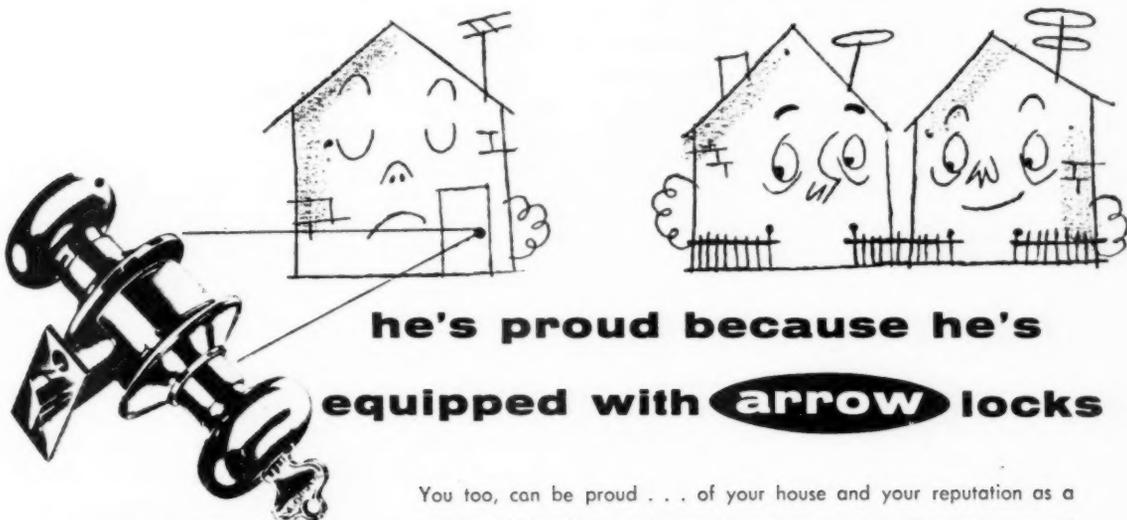
Amalgamated Roofing Co 6600 S Central Chicago 38 Ill  
 Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Asbestos Co of Texas Div Philip Carey Mfg Co Box 1082 Houston 1 Tex  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK NY**  
**BIRD & SON INC EAST WALPOLE MASS**  
 Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**

**FLINTKOTE CO 50 W 50TH NEW YORK 20 NY**

Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill  
 Gold Seal Asphalt Roofing Co Box 202 Chicago Heights Ill  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Koppers Co Koppers Bldg Pittsburgh Pa  
 Lehon Co 4425 S Oakley Chicago 9 Ill  
 Logan-Long Co 6600 S Central Av Chicago 38 Ill  
 Old American Roofing Mills Div of Ruberoid Co 500 Fifth Av New York 36 NY  
 Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
 Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
**RICKKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Texas Co 135 E 42nd New York 17 NY  
 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

▶ **FENCE, BARBED WIRE**

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
 Badger Corrugating Co LaCrosse Wis  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Continental Steel Corp Kokomo Ind  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Northwestern Steel & Wire Co Sterling Ill  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Republic Steel Corp Cleveland Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Stewart Iron Wks Co 1551 Stewart Block Cincinnati 1 Ohio  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**



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 equipped with **arrow** locks

**3 Distinctive Finishes:**

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*Cadillac* QUALITY — CHEVROLET PRICED.

## ► FENCE, CHAIN LINK

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Chain Link Fence Co 24 Ship Av Medford Mass  
Anchor Fence Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md  
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
Century Fence Co Box 466 Waukesha Wis  
Chain Link Fence Corp 4301 W 69th Chicago 29 Ill  
Colorado Fuel & Iron Corp Denver 1 Colo  
Continental Steel Corp Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio  
Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Logan Co Inc 1115 Franklin Louisville 6 Ky  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
Page Steel & Wire Div American Chain & Cable Co Inc First & River St Monessen Pa  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
Stewart Iron Wks Box 1039 Cincinnati 1 Ohio  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

## ► FENCE, ELECTRICALLY CHARGED

Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
General Implement Corp Terminal Tower Cleveland 13 Ohio  
National Metal Prods Co Waterloo Iowa  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**

## ► FENCE & GATES, LAWN, ORNAMENTAL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Chain Link Fence Co 24 Ship Av Medford Mass  
**AMERICAN STEEL & WIRE CO ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Anchor Post Fence Div Anchor Post Prods Inc 6673 Eastern Av Baltimore 24 Md  
Arnold-Dain Corp Box E Mahopac NY  
Arterast Ornamental Iron Co 724 E Hudson Columbus 11 Ohio  
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
Beh & Co Inc 1150 Broadway New York NY  
Bellcoo Co 623 S State Appleton Wis  
Belson Mfg Co East River Rd North Aurora Ill  
**BERGER MFG CO DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Chain-Link Fence Corp 4301 W 69th Chicago 29 Ill  
**CINCINNATI IRON FENCE CO 2110 FLORENCE AV CINCINNATI 6 OHIO**  
Clay Equipment Co Cedar Falls Iowa  
Coffman (R G) Co Inc 2809 N Orange Av Orlando Fla  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Continental Steel Corp Kokomo Ind  
Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
Davis & Siehl Co 4032 Hamilton Av Cincinnati Ohio  
Des Moines Ornamental Iron Co Des Moines Iowa  
Fawcett Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Falls Ohio  
Forbes Steel Corp Cannonsburg Pa  
**GENERAL BRONZE CORP STEWART AV LONG ISLAND CITY NY**  
General Implement Corp Terminal Tower Cleveland 13 Ohio  
Genesco Tools 1830 N Kostner Av Chicago 39 Ill  
Hawkins Iron Co Inc Birmingham 4 Ala  
Illinois Wire & Mfg Co Box 1395 Joliet Ill  
International Steel Co Evansville Ind  
Keer (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Logan Co 201 Cabel Louisville 6 Ky  
Metal Crafters E Av & 18th NE Cedar Rapids Iowa  
Meyers (Fred W) Mfg Co 1176 Hooven Av Hamilton Ohio  
Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
Northwestern Steel & Wire Co Sterling Ill

Page Steel & Wire Div American Chain & Cable Co Inc Monessen Pa  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Redwood Garden Materials Co Los Angeles 21 Cal  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
**SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY**  
Standard Mfg Co 220 E 4th Cedar Falls Iowa  
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio  
Tennessee Coal & Iron Div United States Steel Corp Box 509 Fairfield Ala  
Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

## ► FENCE, RUSTIC

Anchor Post Fence Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md  
Arnold-Dain Corp Box F Mahopac NY  
Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
Century Fence Co Box 466 Waukesha Wis  
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio  
Elhide Co 130 Sixth Cambridge 42 Mass  
Fence Co of America Auburndale Fla  
Lineract Inc Burlington NJ  
MacGillis & Gibbs Co 1615 E Royall Pl Milwaukee 2 Wis  
Whiting Fence Co 130 Sixth Cambridge 42 Mass  
Wolf (Harry M) 666 Lake Shore Dr Chicago 11 Ill  
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

## ► FENCE, SNOW

Angelina County Lumber Co Keltys Tex  
Beh & Co Inc 1150 Broadway New York NY  
Capitol Fence Co 735 N Water Milwaukee 2 Wis  
Concord Woodworking Co 10 Beharrel West Concord Mass  
Gaynor (E S) Lumber Co Sioux City 1 Iowa  
Humboldt Fence & Supply Co Humboldt Iowa  
Illinois Wire & Mfg Co Box 1396 Joliet Ill  
Kinzua Pine Mills Co Kinzua Ore  
Lineract Inc Burlington NJ  
Matteson Wire & Mfg Co Market St Joliet Ill  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Nebr  
**ROWE MFG CO 611 W THIRD GALESBURG ILL**  
Security Fence & Mfg Co 8701 N 30th Omaha 12 Nebr  
Wheeler-Arnold Co Wittenberg Wis

## ► FENCE, WIRE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE CO ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Badger Corrugating Co 1801-39 W Av S LaCrosse Wis  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Davis & Siehl Co 4032 Hamilton Av Box 78 Station A Cincinnati 23 Ohio  
Forbes Steel Corp Cannonsburg Pa  
Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Jones & Laughlin Steel Co 3 Gateway Center Pittsburgh 30 Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Mid States Steel & Wire Co Crawfordsville Ind  
Northwestern Steel & Wire Co Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Republic Steel Corp Republic Bldg Cleveland 13 Ohio  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Tennessee Coal & Iron Div US Steel Corp Box 509 Fairfield Ala  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP DENVER COLO**

## ► FENCE, WOOD

Arnold-Dain Corp Box E Mahopac NY  
Arrow Tank Co Inc 16 Barnett Buffalo 15 NY  
Atlas Fence Co 3650 Richmond Philadelphia Pa

Beh & Co Inc 1150 Broadway New York NY  
Bradley Lumber Co of Ark Warren Ark  
Capital Fence Co 735 N Water Milwaukee 2 Wis  
Cascade Pacific Lumber Co 319 Pacific Bldg Portland 4 Ore  
Concord Woodworking Co Inc 10 Beharrel West Concord Mass  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
Crossett Lumber Co Crossett Ark  
Davis & Siehl Co 4023 Hamilton Av Box 78 Station A Cincinnati 23 Ohio  
Elhide Co 130 Sixth Cambridge 42 Mass  
Fordyce-Crossett Lumber Co Fordyce Ark  
Frost Lumber Industries Drawer 1125 Shreveport 90 La  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITAL WAY OLYMPIA WASH**  
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
Illinois Wire & Mfg Co Box 1396 Joliet Ill  
Lineract Inc Burlington NJ  
MacGillis & Gibbs Co 1615 E Royall Pl Milwaukee 2 Wis  
Matteson Wire & Mfg Co Market St Joliet Ill  
Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha 5 Nebr  
Redwood Garden Materials Co Los Angeles 21 Cal  
**ROWE MFG CO GALESBURG ILL**  
Southern Lumber Co Warren Ark  
Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**  
Whiting Fence Co 130 Sixth Av Cambridge 42 Mass  
Willamette Valley Lumber Co Dallas Ore  
Wolf (Harry M) 666 Lake Shore Dr Chicago 11 Ill  
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

## ► FERTILIZER, LAWN

American Agricultural Chemical Co 50 Church New York 7 NY  
American Bldrook Co 2901 W Peabody Rd Chicago 9 Ill  
Armor & Co Fertilizer Wks Div 1355 W 31st Chicago Ill  
Bach Mfg Co 800 S Market Elizabethtown Pa  
California Spray Chemical Corp Lucas & Ortho Way Richmond Cal  
Carbola Chemical Co 46 Harris Rd Natural Bridge NY  
Hyper-Humus Co Newton NJ  
Milwaukee Sewerage Commission Milwaukee Wis  
Swift & Co Plant Food Div 4115 S Packers Chicago 9 Ill  
Walker-Gordon Laboratory Co Plainshoro NJ

## ► FILERS, SAW, BAND, CIRCULAR, ETC.

**BELSAW MACHINERY CO 215 WESTPORT RD KANSAS CITY 11 MO**  
Chattanooga Saw Wks 1512 Williams Chattanooga Tenn  
Corley Mfg Co Clifton Hills Chattanooga Tenn  
Disston (Henry) & Sons Inc Tacony Station Philadelphia 35 Pa  
Foley Mfg Co 3300 NE 5th Minneapolis 13 Minn  
Hanchett Mfg Co 906 N State Big Rapids Mich  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

## ► FILES & RASPS

Atkins (E C) Div Borg Warner Corp 402 S Illinois Indianapolis 9 Ind  
**BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY**  
Delta File Wks Inc 4837 James Philadelphia 37 Pa  
Disston (Henry) & Sons Inc Tacony Sta Philadelphia 35 Pa  
Heller Bros Co Heller Dr Newcomerstown Ohio  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
Nicholson File Co Providence RI  
Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa  
Proto Tool Co 2209 Santa Fe Los Angeles 54 Cal  
Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**SIMONDS SAW & STEEL CO FITCHBURG MASS**

## ► FILLERS, CRACK & JOINT

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill

American Varnish Co 1140 N Branch Chicago 22 Ill  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Blue Ridge Talc Co Henry Va  
 Boston Varnish Co 114 Second Boston 49 Mass  
 Boyer Chemical Laboratory Co 2232 S Wash Chicago 16 Ill  
 Boyle-Midway Inc 22 E 40th New York 16 NY  
 Camp Co Inc 6953 S State Chicago 21 Ill  
 Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
 Durham (Donald) Co Box 804 Des Moines 4 Iowa  
 Fabricated Prods Co Water St West Newton Pa  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Glidden Co 11001 Madison Cleveland 2 Ohio  
**JOHN-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio  
 Lasting Prods Co Baltimore 1 Md  
 Liebhich (G L) Co 931 N Ogden Chicago 22 Ill  
 Lowe Bros 436 E Third Dayton 2 Ohio  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**  
 Perkins Co 652 Cannon Av Lansdale Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Prestitte Engineering Co 3900 Chouteau Av St Louis 16 Mo  
 Reardon Co 7501 Page Av St Louis 14 Mo  
 Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
 Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY  
 Savoyran Co 28 India Wharf Boston 16 Mass  
 Schalk Chemical Co 351 E 2nd Los Angeles 12 Cal  
 Serviced Prods Corp 6051 W 65th Chicago 38 Ill  
 Sheffield Bronze & Paint Corp 17814 Waterloo Cleveland 19 Ohio  
 Smooth-On Mfg Co 572 Communipaw Av Jersey City 4 NJ  
 Steeleote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Stonhard Co 1306 Spring Garden Philadelphia 23 Pa  
 Tamm Industries Inc 228 N La Salle Chicago 1 Ill  
 Technical Supply Co 1911 University Av Palo Alto Cal  
 Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
 United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Webb Prods Co 216 S "G" San Bernardino Cal  
 Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal  
 X-Pando Corp 43-15 36th Long Island 1 NY

#### ► FILLERS, JOINT, SEWER PIPE

Asbestos Co of Texas Div Philip Carey Mfg Co Box 1082 Houston 1 Tex  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
**JOHN-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Kaul Clay Mfg Co Toronto Ohio  
 Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Prestitte Engineering Co 3900 Chouteau Av St Louis 16 Mo  
 Robinson Clay Products Co Second National Bank Bldg Akron 9 Ohio  
 Serviced Prods Corp 6051 W 65th Chicago 38 Ill  
 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

#### ► FILLERS, WOOD

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Berry Bros Inc 211 Leib Detroit 7 Mich  
 Boyle-Midway Inc 22 E 40th New York 16 NY  
 Breinig Bros 223 Adams Hoboken NJ  
**BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN**  
 Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill

Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Du Pont (E I) de Nemours & Co 1007 Market Wilmington 98 Delaware  
 Elliott Paint & Varnish Co 4525 W Fifth Av Chicago 24 Ill  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio  
 Fuller (W P) & Co 301 Mission San Francisco 19 Cal  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Keystone Varnish Co 71 Otsego Brooklyn 31 NY  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros 436 E Third Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Moore (Benjamin) & Co 511 Canal New York NY  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Parker (Ira) & Sons Oshkosh Wis  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Pease-Gaubert Paint & Varnish Co 223 N 15th Louisville Ky  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert 82 Tonawanda Buffalo 7 NY  
 Reardon Co 7501 Page Av St Louis 14 Mo  
 Savoyran Co 28 India Wharf Boston 16 Mass  
 Schalk Chemical Co 351 East Second St Los Angeles Cal  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo  
 Sheffield Bronze Paint Corp 17814 Waterloo Cleveland 19 Ohio  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Steeleote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn  
 United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Webb Prods Co 216 "G" San Bernardino Cal  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

#### ► FILTERS, AIR

Air Devices Inc 17 E 42nd New York 17 NY  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
**HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY**  
**OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO OHIO**  
 Research Prods Co 1015 E Washington Av Madison 10 Wis  
 Trion Inc 1000 Island Av McKees Rock Pa

#### ► FINANCING SERVICES

Allied Building Credits Inc Box 3426 Terminal Annex Los Angeles 54 Cal  
 Commercial Credit Corp First National Bank Bldg Baltimore Md  
 Crawford Corp 1901 North 3rd Baton Rouge La  
 Douglas-Guardian Warehouse Corp 118 N Front New Orleans 1 La  
 Investors Diversified Services Inc 200 Roanoke Bldg Minneapolis Minn  
 Lawrence Warehouse Co WP Story Bldg Los Angeles Cal  
 National Life Insurance Co Montpelier Vt  
 St Louis Terminal Warehouse Co St Louis Mo  
 US Savings & Loan League 221 N La Salle Chicago 11 Ill

#### ► FINISHERS, CONCRETE FLOOR

Camp Co Inc 6958 S State Chicago 21 Ill  
 Whitman Mfg Co 3249 Casitas Av Los Angeles 39 Cal

#### ► FINISHERS, WALLBOARD JOINT

**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Durham (Donald) Co Box 804 Des Moines 4 Iowa  
**JOHN-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**MARSH WALKER PRODS INC 5932 MAIN DWYER OHIO**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**

Reardon Co 7501 Page Av St Louis 14 Mo  
 Schalk Chemical Co 351 East Second St Los Angeles 12 Cal  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**UPSON CO 43 UPSON PT LOCKPORT NY**  
 Wesco Waterpaints Inc Matteson Ill

#### ► FINISHES, WATERPROOF, ASPHALT

Dewatex Mfg Corp W 42nd & Dyer Av New York 17 NY  
**JOHN-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Tuferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

#### ► FINISHES & SEALER, FLOOR

Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
**AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR TOLEDO 3 OHIO**  
 American Fluorist Co Inc 401 Red Bank Rd Cincinnati 27 Ohio  
 American-Marietta Co 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Boston Varnish Co 114 Second Everett Station Boston 49 Mass  
**BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN**  
 Camp Co Inc 6958 S State Chicago 21 Ill  
 Camp Chemical Co Inc 170 Second Av Brooklyn 15 NY  
 Crestite Waterproofing Corp 3227 S Shields Av Chicago 16 Ill  
 Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn  
 Chicago Bronze & Color Wks 2639 W Grand Av Chicago 12 Ill  
 Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
 Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY  
 Cromar Co Susquehanna St Williamsport Pa  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Du Pont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del  
**FLINTKOTE CO INC 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
 Franklin Research Co 5137 Lancaster Av Philadelphia 31 Pa  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Hilger Co 1200 St Germain St Cloud Minn  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 International Chemical Co 3140 S Canal Chicago 16 Ill  
 Johnson (S C) & Co Inc 1525 Howe Racine Wis  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros Co 424 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Minneapolis Builders Supply Co 927 2nd Av South Minneapolis 2 Minn  
 Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
 Minnesota Platon Corp Platon Bldg Pipestone Minn  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
 Moore (Benjamin) & Co 511 Canal New York 13 NY  
 Nu Surfus Corp 7312 Bennett Av Chicago 49 Ill  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Pierce & Stevens Inc 710 Ohio Buffalo 3 NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Plasti-Kote Co 425 Lakeside Av NW Cleveland Ohio  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sonneborn (L) Sons Inc Building Prods Div 104 Fourth New York 16 NY  
 Standard Floor Co Gulf Bldg Pittsburgh Pa  
 Steeleote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
 Technical Supply Co 1911 University Av Palo Alto Cal  
 Troyer Mfg Co 8701 Kin-man Rd Cleveland 1 Ohio  
 Tuferete Co Inc 553 Teachout Bldg Des Moines 9 Iowa

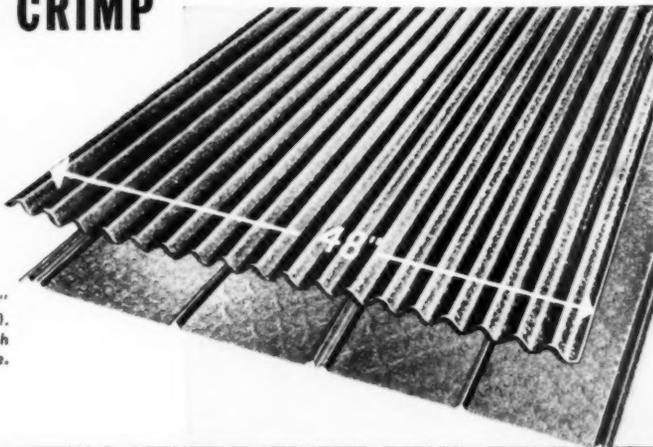


# New! 48-INCH WIDE SHEETS!

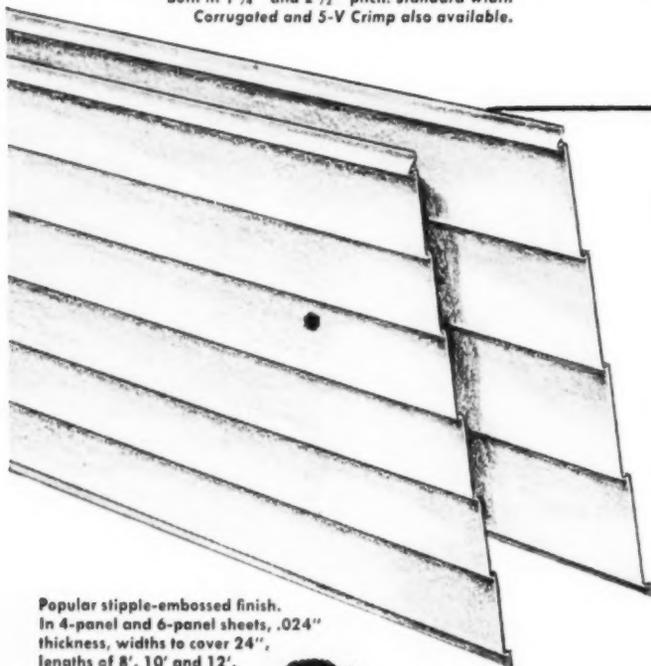
## REYNOLDS *Lifetime* ALUMINUM

### CORRUGATED AND 8-V CRIMP

These new 48" sheets make rustproof, heat-reflective Reynolds *Lifetime* Aluminum a bigger roofing and siding bargain than ever! 50% fewer sheets to handle—50% less metal taken up at side laps! Saves on labor and material, and gives the buyer a tighter, better looking job. Write for Literature. (Address on next page.)



In 6', 7', 8', 9', 10', 11', 12' lengths, Plain in .019" thickness, Embossed in .019" and .024" (26 and 24 U.S. Std. Ga.). Both in 1 1/4" and 2 1/2" pitch. Standard width. Corrugated and 5-V Crimp also available.



Popular stipple-embossed finish. In 4-panel and 6-panel sheets, .024" thickness, widths to cover 24", lengths of 8', 10' and 12'.



## Reynolds *Lifetime* Aluminum Nails

Rustproof, non-staining, need no deep-setting or puttying. Nearly three times as many nails per pound!

## Reynolds *Lifetime* Aluminum Weatherboard Siding

The rustproof permanence and heat reflection of aluminum in a form resembling classical clapboard. Can be painted for residential use — very popular unpainted for farm and commercial buildings. Ideal for garages, overhead garage doors, etc.



Simplest . . . Quickest . . . Amazingly Effective!

# REYNOLDS ALUMINUM REFLECTIVE INSULATION



**IN CEILINGS**

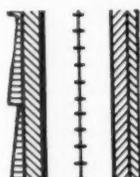
Saves 50% of heat loss here



UNFLOORED ATTIC  
1 Layer Type B

AGAINST SUMMER HEAT  
U=.11

AGAINST WINTER HEAT  
U=.30



WOOD FRAME WALL  
1 Layer Type B

U=.13



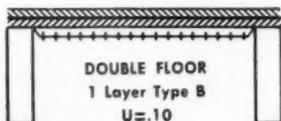
**IN WALLS**

Saves 50% of heat loss here



**IN FLOORS**

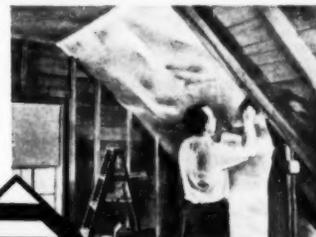
Saves 65% of heat loss here



DOUBLE FLOOR

1 Layer Type B

U=.10



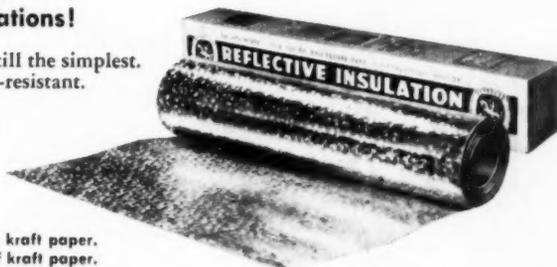
**IN ATTICS**

Reduces summer temperatures  
as much as 15°

**Efficiency with no awkward bulk . . . at  
much lower cost than most bulk insulations!**

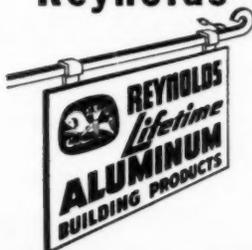
Reynolds Reflective Insulation, a pioneer in the field, is still the simplest. Clean, odorless, non-absorptive. Fire-, wind- and vermin-resistant. Tough, pliable, permanent in position. Outstanding in versatility, high in insulating efficiency; perfect vapor barrier. Easiest, quickest to apply... carry enough for an attic under two arms (two 15-lb. rolls contain 500 sq. ft.).

Type B—Embossed aluminum foil laminated to two sides of tough kraft paper.  
Type C—Embossed aluminum foil on one side of kraft paper.



## Reynolds Low-Cost Aluminum Vapor Barrier

available with single or double aluminum facing



New lighter-weight, lower-cost addition to the Reynolds line. Sturdy enough to resist tearing when applied with ordinary caution. Specially developed for big jobs and as a feature in residing and re-roofing.

COMPARISON: Vapor Barrier—.00035 aluminum, 40 lb. kraft paper.

Reflective Insulation—.0005 aluminum, 80 lb. kraft paper.

Reynolds Metals Company, Building Products Division, 2003 S. Ninth Street, Louisville 1, Ky.

Twin City Hardwood Lbr Co 509 N Cleveland  
 Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W  
 44 NEW YORK 18 NY**  
 Vita-Var Corp 10 Commerce Ct Newark 2  
 NJ  
 Waterlox Div Empire Varnish Co 2636 E  
 76th Cleveland 4 Ohio  
 Wesco Waterpaints Inc Matteson Ill  
 Wethrill (Geo D) & Co 113 Arch Philadel-  
 phia 6 Pa  
 Wilson-Imperial Co 115 Chestnut Newark 5  
 NJ  
 X-Pando Corp 43-15 36th Long Island City 1  
 NY

► **FIREPLACE, OUTDOOR & EQUIPMENT**

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd  
 Hazel Park Mich  
 Anchor Div Stratton & Terstegge Co 300 Cul-  
 bertson Av Box 311 New Albany Ind  
**BENNETT-IRELAND INC 23 STATE NOR-  
 WICH NY**  
 Builder's Fireplace & Supply Co 2604 Link  
 Houston Tex  
 Donley Bros Co 13910 Miles Av Cleveland 5  
 Ohio  
 Grillcraft Co 1487 Summit Av St Paul 5  
 Minn  
 Hancock Iron Wks 52 W Pike Pontiac Mich  
 Industrial Iron Wks Box 4625 Portland 2  
 Ore  
 Logan Co 201 Cabel Louisville 6 Ky  
**MAJESTIC CO HALL ST HUNTINGTON  
 IND**  
 Mexico Refractories Co Love & Cole Mexico Mo  
 Ohio Stove Co Portsmouth Ohio  
 Outdoor Oven Fireplace Co 859 Windsor  
 Hartford 1 Conn  
 Peerless Mfg Co 1400 W Ormsby Louisville 10  
 Ky  
**PRICE FIREPLACE HEATER & TANK  
 CORP 195 W AUSTIN BUFFALO 7 NY**  
 Silent Glow Oil Burner Corp 1475 Park  
 Hartford Conn  
 Smith (F P) Wire & Iron Wks 2340 Cly-  
 bourn Av Chicago 14 Ill  
 Vestal Mfg Co Box 152 Sweetwater Tenn  
 Western Foundry Co 2400 SW Water Av  
 Portland 1 Ore  
 Wiemann (Ernest) Iron Wks 2035 E 11 Tulsa  
 4 Okla

► **FIREPLACES, UNITS, METAL**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
 Hazel Park Mich  
**BENNETT-IRELAND CO 23 STATE NOR-  
 WICH NY**  
 Builder's Fireplace & Supply Co 2604 Link  
 Houston Tex  
 Carey Industries 818 E Water Syracuse 3  
 NY  
 Condon-King Co 613 8th Av N Seattle 9 Wash  
 Covert (H W) Co 339 E 48th New York 17 NY  
 Donley Bros Co 13910 Miles Av Cleveland 5  
 Ohio  
 Hearthaire Fireplace Co 3126 Scarborough  
 Rd Cleveland Ohio  
**HEATILATOR INC 661 E BRIGHTON AV  
 SYRACUSE 5 NY**  
 LaSalle Prods Inc 193 N Elkhart Elkhart Ind  
 Lovell Cla Prods Co Lovell Wyo  
**MAJESTIC CO HALL ST HUNTINGTON  
 IND**  
 Northwest Metal Prods Inc 55 Spokane Seattle  
 4 Wash  
**PRICE FIREPLACE HEATER & TANK  
 CORP 195 W AUSTIN BUFFALO 7 NY**  
**READYBUILT PRODS CO 1705-23 MC-  
 HENRY BALTIMORE 23 MD**  
**SUPERIOR FIREPLACE CO 1709 E 15TH  
 LOS ANGELES 21 CAL**  
 Tristop Damper Co Trussville Ala  
 Tristop Damper Co 645 W 42nd Seattle 7  
 Wash

► **FIREPROOFING COMPOUNDS, WOOD**

Aeme Flame Control Corp 3051 Rosslyn Los  
 Angeles 65 Cal  
 Albi Chemical Corp 15 Park Pl New York  
 7 NY  
 American Lumber & Treating Co 332 S  
 Michigan Chicago 4 Ill  
 Camp Chemical Co Inc 1560-62 62nd Brooklyn  
 19 NY  
 Koppers Co Inc Koppers Bldg Pittsburgh  
 19 Pa  
 McKeown Bros 5303 S Keeler Av Chicago 32  
 Ill  
**MONSANTO CHEMICAL CO 1700 S SEC-  
 OND ST LOUIS 4 MO**  
 Price Fire & Water Proofing Co Pough-  
 keepsie NY  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Wayne Chemical Prods Co Copeland & MCRR  
 Detroit 17 Mich

► **FITTINGS, ELECTRIC**

Appleton Electric Co 1701-59 Wellington Av  
 Chicago 13 Ill  
 Arrow Hart & Hegeman Electric Co 103  
 Hawthorne Hartford Conn  
 Benjamin Electric Co Des Plaines Ill  
 Bryant Electric Co 1421 State Bridgeport 2  
 Conn  
 Conduit Pipe Prods Co 157 W Fulton Colum-  
 bus Ohio  
 Hico Engineering Co Genoa City Wis  
 Hubbell (Harvey) Inc State & Bostwick Av  
 Bridgeport 2 Conn  
 Merwin Mfg Co 19th & German Erie Pa  
 Price-Pfister Brass Mfg Co 3011 Humboldt  
 Los Angeles 31 Cal

► **FITTINGS, PLUMBING & HEATING**

American Foundry & Mfg Co 1015 Herbert  
 St Louis 7 Mo  
 American Radiator & Standard Sanitary  
 Corp Bessemer Bldg Pittsburgh 30 Pa  
 American Sanitary Mfg Co Abingdon Ill  
 Anchor Div Stratton & Terstegge Co 300  
 Culbertson Av Box 311 New Albany Ind  
 Barnes Mfg Co 651 N Main Mansfield Ohio  
**BELL & GOSSETT CO 8200 AUSTIN MOR-  
 TON GROVE ILL**  
**BRIGGS PLUMBINGWARE CO 3001 MIL-  
 LER AV DETROIT 11 MICH**  
 Case (W A) & Son Mfg Co 38 Main Buffalo  
 NY  
 Central Brass Mfg Co 4606 Hamilton Clevel-  
 and 14 Ohio  
**CHASE BRASS & COPPER CO INC 236  
 GRAND WATERBURY 22 CONN**  
 Chicago Faucet Co 2700-22 N Pulaski Rd Chi-  
 cago 39 Ill  
 Clow (James B) & Sons 201-299 N Talman  
 Av Chicago 80 Ill  
**CRANE CO 836 S MICHIGAN AV CHICAGO  
 5 ILL**  
 Darr (E M) Mfg Co Columbus Ohio  
 Detroit Brass & Malleable Wks 100 S Camp-  
 bell Detroit 9 Mich  
 Dick Bros Inc Third & Buttonwood Reading  
 Pa  
 Division Lead Co 7742 W 61st Pl Summit Ill  
 Durst Mfg Co 409 Lafayette New York 3 NY  
**ELJER CO FORD CITY PA**  
 Farmer Mfg Co Brookside Pk Cleveland 9  
 Ohio  
 General Fittings Co 123 Georgia Av Provid-  
 ence 5 RI



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 and old homes of every type. Safety-  
 engineered in every detail. Meets all  
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 fications on 7 Bessler Dis-  
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 Jobber Inquiries Invited

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Accurate, razor-like cut any way  
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 45 degrees or 90 degrees. Miter,  
 bevels, squares, chamfers—hun-  
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Glanber Brass Kinsman Ohio  
 Grabler Mfg Co 5362 Broadway Cleveland 5 Ohio  
 Grand Rapids Brass Co 99 Front Grand Rapids Mich  
 Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
 James Mfg Co Fort Atkinson Wis  
 Keystone Brass & Rubber Co Broad & Lehigh Av Philadelphia 32 Pa  
 Knights (James) Co Wells & Church Sandwich Ill  
**KOHLER CO KOHLER WIS**  
 Malleable Iron Fittings Co 21 Thatcher Bradford Conn  
 McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill  
 Milwaukee Flush Valve Co 301 E Reservoir Milwaukee 12 Wis  
 Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
 National Lead Co 111 Broadway New York 6 NY  
 National Tube Co Frick Bldg Pittsburgh Pa  
 Parker (Charles) Co 50 Hanover Meriden Conn  
 Penberthy Injector Co 1242 Holden Av Detroit 2 Mich  
 Powell (William) Co Draper & Coombs Sts Cincinnati Ohio  
 Republic Brass Co 1623 E 45th St Cleveland Ohio  
 Schaible Co 1086 Summer Cincinnati 4 Ohio  
 Seovill Mfg Co Waterville Conn  
 Sherman (H B) Mfg Co 22 Barney Battle Creek Mich  
 Sloan Valve Co 4300 W Lake Chicago 24 Ill  
 Speakman Co 30th & Spruce Wilmington Del  
**THRUSH (H A) CO PERU IND**  
 Trane Co 3rd & Cameron LaCrosse Wis  
 Trenton Pipe Nipple Co 626 Brunswick Av Box 1234 Trenton NJ  
**UNIVERSAL-RUNDLE CORP BOX 960 NEW CASTLE PA**  
 Walworth Co 60 E 42nd New York 17 NY  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
 Wolff Mfg Co 2000 W Fulton Chicago Ill  
 Youngstown Steel Prods Co Youngstown Ohio

#### ▶ FIXTURES, BLACKBOARD

Austral Sales Corp 101 Park Av New York 17 NY

#### ▶ FIXTURES, ELECTRIC INCANDESCENT LIGHT

Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill  
 Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY  
 Benjamin Electric Mfg Co Des Plaines Ill  
 Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
 Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY  
 Frink Corp 27-01 Bridge Plaza Long Island City 1 NY  
 Glasolier Co 923 Penn Av Pittsburgh 22 Pa  
 Globe Lighting Prods Inc 397 7th Av Brooklyn NY  
 Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo  
 Holophane Co Inc 342 Madison Av New York NY  
 Home-Craft Electronic Prods 3828 N Kedzie Av Chicago 18 Ill  
 International Lighting Co 6511 Easton Av St Louis 14 Mo  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Kirlin Co 3435 E Jefferson Av Detroit Mich  
 Kraus (Walter S) Co 48-02 43rd Woodside NY  
 LaSalle Prods Inc 143 Seneca Buffalo 3 NY  
 Lightolier Co 346 Claremont Av Jersey City 5 NJ  
**MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY**  
 Marvin Mfg Co 3171 E 12th Los Angeles 23 Cal  
 Metallic Arts of New England Inc 243 Broadway Cambridge 39 Mass  
 Miller Co 200 Cent Meriden Conn  
 Moe Light Fort Atkinson Wis  
 Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY  
 Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY  
 Progress Mfg Co Inc Castor Av & Tulip Philadelphia 34 Pa  
**PRYNE & CO INC 140 N TOWNE POMONA CAL**  
 Pyle-National Co 1334 N Kostner Chicago 51 Ill  
 Silvray Lighting Inc 1270 Sixth Av New York NY  
 Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal  
 Steber Mfg Co Broadview Ill  
 Swain & Bridge 172 Stanley Av New Britain Conn  
 Swivelier Co Inc 43-34th Brooklyn NY  
 Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY

Tuttle & Bailey 1706 Corbin Av New Britain Conn  
 Virden (John C) Co 6009-6103 Longfellow Cleveland Ohio  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Wheeler Reflector Co 275 Congress Boston Mass

#### ▶ FIXTURES, FLUORESCENT

Alco Mfg Co 4242 N Lincoln Chicago 18 Ill  
 Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY  
 Benjamin Electric Co Des Plaines Ill  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
 Day-Brite Lighting Inc 5411 Bulwer Av St Louis 7 Mo  
 Eagle Electric Mfg Co Inc 23-10 Bridge Plaza Long Island City 1 NY  
 Flex-O-Lite Co St Charles Ill  
 Fluorescent Fabricators Div Easy-Eye Lighting Inc 1825 Chateau Av St Louis Mo  
 Fluorescent Lighting Co Monticello NY  
 Frink Corp 27-01 Bridge Plaza Long Island 1 NY  
 Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
 Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo  
 Home-Craft Electronic Prods 1208 S Kedzie Av Chicago 23 Ill  
 Ingram-Richardson Mfg Co 32nd St Beaver Falls PA  
 International Lighting Co 6511 Easton Av St Louis 14 Mo  
 Kirlin Co 3435 E Jefferson Av Detroit Mich  
 Lightmore Appliance Corp 738 Broadway New York 3 NY  
 Lightolier Co 11 E 36th New York 5 NY  
 Long (W H) Co 425 N Clark Chicago Ill  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO 1950 GRAND AV MIDDLETOWN OHIO**  
 Modern Light & Equipment Co 3812 S Wash Chicago Ill  
 Moe Light Fort Atkinson Wis  
 Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY  
 Smitcraft Lighting Div Chelsea 50 Mass  
 Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal  
 Swivelier Co Inc 43 34th Brooklyn NY  
 Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY  
 Virden (John C) Co 6009-6103 Longfellow Cleveland Ohio  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Wheeler Reflector Co 275 Congress Boston Mass  
 Wiley (R & W) Corp 119 Dearborn Buffalo 7 NY  
**WIREMOLD CO STATION A HARTFORD 10 CONN**

#### ▶ FIXTURES, PLUMBING

Abingdon Potteries Abingdon Ill  
**ALLIANCEWARE INC BOX 809 ALLIANCE OHIO**  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
 American Sanitary Mfg Co Abingdon Ill  
 Berger (Thomas W) Inc 6 E Fourth Cincinnati Ohio  
 Briggs Plumbingware Co 3001 Miller Av Detroit 11 Mich  
 Camden Pottery Div Universal-Rundle Corp Camden NJ  
 Case (W A) & Son Mfg Co 33 Main Buffalo 3 NY  
 Chicago Pottery Co 1920 N Clybourn Chicago 4 Ill  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 30 Ill  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
 Douglas (John) Co 71st & BORR Cincinnati Ohio  
**ELJER CO FORD CITY PA**  
 General Ceramics & Steatite Corp Sanitary Ware Div 21 Crown Mill Rd Keasbey NJ  
**GERBER PLUMBING FIXTURES 232 N CLARK CHICAGO ILL**  
 Hajoca Corp Philadelphia Pa  
 Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
 Humphreys Mfg Co 201 E Fifth Mansfield Ohio  
**INGERSOLL PRODS DIV BORG-WAERNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
**KOHLER CO KOHLER WIS**  
 Majestic Mfg Co 4550 Gustine St Louis Mo  
 Mansfield Sanitary Pottery Co Ferrysville Ohio  
 Maydale (David) Tool Corp Norwich NY  
**MILWAUKEE FLUSH VALVE CO 301 E RESERVOIR AV MILWAUKEE 12 WIS**  
**MULLINS MFG CO WARREN OHIO**  
 National Plumbing Fixture Corp South Second Elwood City Pa  
 Price-Plater Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal

Repeal Brass Mfg Co 2109 E 27th Los Angeles Cal  
**RICHMOND RADIATOR CO BOX 111 METUCHEN NJ**  
 Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
 Schaible Co 1086 Summer Cincinnati 4 Ohio  
 Sherman (H B) Mfg Co 22 Barney Battle Creek Mich  
 Shook & Co Inc Box 179 Mandan ND  
 Smoot-Holman Co 321 N Eucalyptus Av Inglewood Cal  
 Speakman Co 30th & Spruce Wilmington 99 Del  
 Strand (Carl A) Co 318 Wabek Bldg Birmingham Mich  
 Streammaster Shower Corp 51 E 42nd New York NY  
**THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL**  
 Trenton Potteries Co 309 N Clinton Av Trenton 1 NJ  
 US Porcelain Enamel Co 4635 E 52nd Dr Los Angeles 22 Cal  
**UNIVERSAL-RUNDLE CORP BOX 960 NEW CASTLE PA**  
**WESSELS CO 1625 E EUCLID AV DETROIT 11 MICH**  
 Wilmington Casting Co 258 Charles Wilmington Ohio  
 Zurn (J A) Mfg Co Erie Pa

#### ▶ FIXTURES, SHOWER

American Brass Mfg Co 1525 E 49th Cleveland Ohio  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
 Central Brass Mfg Co 4606 Hamilton Cleveland 14 Ohio  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
**ELJER CO FORD CITY PA**  
**FIAT METAL MFG CO 9301 BELMONT AV FRANKLIN PARK ILL**  
 Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
**MILWAUKEE FLUSH VALVE CO 301 E RESERVOIR AV MILWAUKEE 12 WIS**  
 Price-Plater Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal  
 Ravenna Metal Prods Co 6518 Ravenna Seattle Wash  
 Sanitary-Dash Co 11th & 44th Rd Long Island City 1 NY  
 Seovill Mfg Co Waterville Conn  
 Speakman Co 30th & Spruce Wilmington 99 Del  
 Streammaster Shower Corp 51 E 42nd New York NY

#### ▶ FIXTURES, STORE LIGHTING

Benjamin Electric Co Des Plaines Ill  
 Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
 Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
 Kirlin Co 3435 E Jefferson Av Detroit 7 Mich  
 Lightolier Co 346 Claremont Av Jersey City 5 NJ  
 Mitchell Mfg Co 2525 N Clybourn Av Chicago 14 Ill  
 Swivelier Co Inc 43 34th Brooklyn NY  
 Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY  
 Wheeler Reflector Co 275 Congress Boston Mass

#### ▶ FIXTURES & MATERIALS, STORE DISPLAY

Abacet Displays 60 E 10th New York 2 NY  
 Adler-Jones Co 521 S Wabash Chicago 5 Ill  
 Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Alden Mfg Co 201 W Walnut Painesville Ohio  
 Allied Display Materials Inc 65 Madison Av New York 16 NY  
 Allied Synthetic Co 4654 De Soto San Diego 9 Cal  
 American Fixture & Mfg Co St Louis Mo  
 Barnes Mfg Co 651 N Main Mansfield Ohio  
 Brainerd Industries Inc 152 S 15th Lindenhurst LI NY  
 Butler (B B) Mfg Co Inc 3150 Randolph Inglewood Ill  
 Chicago Card Holder Co 732 N Morgan Chicago 26 Ill  
 Columbus Show Case Co 850 W 5th Columbus Ohio  
 Commonwealth Plastics Inc Superior Plastics Div 426 N Oakley Blvd Chicago 12 Ill  
 Curtis Cog Inc American Plywood Div New London Wis  
 Detroit Show Case Co Detroit Mich  
 Display Craft Grand Rapids 6 Mich  
 Erickson (C E) Co Inc 1440 Walnut Des Moines Ia  
 Equipo Div Aurora Equipment Co Aurora Ill  
 Formica Co 4514 Spring Grove Av Cincinnati 32 Ohio  
 Fuller Displays Inc Long Island City NY

Fulton Glass Co Hartford City Ind  
Garden City Plating & Mfg Co 1750 N Ashland Chicago 23 Ill  
Garrison Wagner Co 2018 Washington Av St Louis 3 Mo  
General Die & Stamping Co 266 Mott St New York 13 NY  
Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich  
Heller (W C) & Co 1959 Bryant Montpelier Ohio  
Hirsch (S A) Mfg Co 8051 N Central Pk Skokie Ill  
Interlock Metal Units Inc New York NY  
Johnswood Co 13833 S Indiana Av Chicago 27 Ill  
Ken-It-Bill Corp Van Buren Ohio  
Knap & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
Larson (Chas O) Co Ave "G" & C&NW Ry Sterling Ill  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
May-Bilt Inc Frankfort Ky  
Metal Decorating & Mfg Co 2021 W Fulton Chicago Ill  
Multiplex Display Fixture Co 911-21 N 10th St Louis Mo  
National Sawdust Co Brooklyn 11 NY  
Neo-Ray Prods Inc 313-323 E 22nd New York 10 NY  
Quinnell Displays Inc 7123 Austin Forest Hills NY  
Reardon Co 7501 Pace Av St Louis 14 Mo  
Red Devil Tools Co St Irvington 11 NJ  
Reeves (Harum E) Co 225 Los Angeles Cal  
Reflector Hdwe Corp 245 S Western Chicago 8 Ill  
Renco 4372 W Ogden Chicago 23 Ill  
Ruelander & Sons Inc 18 Letchfield Buffalo 13 NY  
Scheuer Creations Inc 307 W 28th New York 18 NY  
Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio  
Simplex Store Equipment Inc Grand Rapids 2 Mich  
Sika Spruce Lumber & Mfg Co 2500 Genesee Box 295 Kansas City 8 Mo  
Stanford Wood Prods Co Stanford Ky  
Stensgaard (W L) & Associates Inc 346 N Justine Chicago Ill  
Store Engineering Co Youngstown Ohio  
Store Kraft Mfg Co Beatrice Neb  
Universal Equipment Co 3401 W Division Chicago Ill  
Universal Fixture Corp New York NY  
Waddell Co Inc Greenfield Ohio  
Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn  
Warren (J D) Mfg Co Montpelier Ohio  
Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal  
Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa  
Wolfe (Harry M) 666 Lake Shore Dr Chicago 11 Ill

### ▶ FLAGSTONES

COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH  
Conco Building Prods Inc Box 111 Mendota Ill  
Landscape Slate & Roofing Co Inc Poultney Vt  
Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn

### ▶ FLANGES, FLUE

Adams Co Dubuque Iowa  
Columbia Pipe Co Columbia SC  
Kees (F D) Mfg Co 700 Park Av Beatrice Neb

### ▶ FLASHING, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Gichner Inc 1900 Kendall NE Washington 2 DC  
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal  
Metal Tile Prods Inc 225 E Walnut Hastings Mich  
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY  
Wells Specialty Co North Liberty Ind

### ▶ FLASHING, COPPER

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN  
AMERICAN SISALKRAFT CORP ATTLEBORO MASS  
Angier Corp Fountain St Framingham Mass  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO

Bridgeport Brass Co 30 Grand Bridgeport 2 Conn  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
Cheney Metal Prods Co 623 Prospect Trenton 5 NJ  
Gichner Inc 1900 Kendall NE Washington 2 DC  
Hussey (C G) Co 2860 2nd Av Pittsburgh 19 Pa  
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Revere Copper & Brass Co 230 Park Av New York 17 NY  
Wasco Flashing Co 87 Fawcett Cambridge Mass

### ▶ FLASHING, METAL, GALVANIZED

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE DIV U S STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Central Prods Co 57 Forest Battle Creek Mich  
Cheney Industries 623 Prospect Trenton 5 NJ  
Continental Steel Corp Kokomo Ind  
Edwards Mfg Co Fifth & Butler Cincinnati 2 Ohio  
FLINTKOTE CO INC 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA  
Gary-Pioneer Steel Corp Gary Ind  
Gichner Inc 1900 Kendall NE Washington 2 DC  
Illinois Zinc Co 2959 W 47th Chicago 32 Ill  
INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS  
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
Minneapolis Builders Supply Co 927 2nd Av Minneapolis 2 Minn  
Newport Steel Corp 9th & Lowell Newport Ky  
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY  
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN  
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
Wheeling Corrugating Co Wheeling W Va

### ▶ FLASHING, PAPER TREATED

AMERICAN SISALKRAFT CORP ATTLEBORO MASS  
Angier Corp Fountain St Framingham Mass  
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY  
CAREY (PHILIP) MFG CO LOCKLAND CINCINNATI 15 OHIO  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Protective Papers Inc Union Ill  
RICKKRAFT CO 510 N DEARBORN CHICAGO 10 ILL  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

### ▶ FLOATS, CONCRETE VIBRATING

SYNTRON CO 618 LEXINGTON AV HOMER CITY PA

### ▶ FLOOR POLISHERS

AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO  
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY  
BLACK & DECKER MFG CO TOWSON 4 MD  
BRADFORD MACHINE TOOL CO 656-71 EVANS CINCINNATI 4 OHIO  
BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS TENN  
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio

Dumore Co 1300 17th Racine Wis  
Floriboss-Habit Co 4181 W Montrose Chicago 41 Ill  
Johnson (S C) & Co Inc 1525 Howe Racine Wis  
Kent Co Inc 351 Canal Rome NY  
MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL  
MILWAUKEE ELECTRIC TOOL CORP 5318 W STATE MILWAUKEE 8 WIS  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

### ▶ FLOOR RESURFACERS

Aeme Asbestos Covering & Flooring Co 256 N Elizabeth Chicago 7 Ill  
Adensite Co 37-19 23rd Long Island City NY  
American Fluoresc Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio  
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY  
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill  
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY  
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
Evercrete Corp 424 W 42nd New York 36 NY  
Flash-Stone Co Inc 3723 Pulaski Av Philadelphia 40 Pa  
Flexrock Co 36th & Filbert Philadelphia 4 Pa  
Floriboss-Habit Co 4181 W Montrose Chicago 41 Ill  
Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY  
Montrose Co Inc 10703 Quebec Cleveland 6 Ohio  
MOORE (GOODLOE E) CO 2811 N VERMILLION DANVILLE 2 ILL  
Reardon Co 7501 Pace Av St Louis 14 Mo  
Rock-Tred Corp 7440 N St Louis Av Skokie Ill  
Roc-Wood Flooring Inc 2268 S Parkway Chicago 16 Ill  
Rutland Fire Clay Co Rutland Vt  
Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
Selby Battersby & Co 5235 Whithy Av Philadelphia 43 Pa  
Smooth-On Mfg Co 568-74 Communipaw Av Jersey City 4 NJ  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis  
Steelcoke Mfg Co 3418 Gratiot St Louis 3 Mo  
Stonhard Co 1306 Spring Garden Philadelphia 23 Pa  
Sullivan Co 212 E Trigg Box 2606 Memphis 2 Tenn  
Surface Protection Co 16799 Euclid Cleveland 12 Ohio  
Tamm Industries Inc 228 N LaSalle Chicago Ill  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio  
Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
Truscon Laboratories Div Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Tufere Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
United Gilsonite Laboratories 1396 Jefferson Av Seranton 1 Pa  
United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio  
Vita Var Corp 10 Commerce Ct Newark NJ  
Wilson-Imperial Co 115 Chestnut Newark 5 NJ

### ▶ FLOOR WAXES, ELECTRIC

Algoma Mfg Co Box 252 Algoma Wis  
AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR AV TOLEDO 3 OHIO  
Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY  
Boyle-Midway Inc 22 E 40th New York 16 NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
Floriboss-Habit Co 4181 W Montrose Chicago 41 Ill  
General Floorcraft Inc 421 Hudson New York 14 NY  
Hill Floor Machine Co 740 W Washington Chicago 7 Ill

Hilger Co 1209 St Germain St Cloud Minn  
**HOLT MFG CO 651 20TH OAKLAND 12 CAL**  
 Johnson (S C) & Son Inc 1525 Howe Racine Wis  
 Kent Co Inc 351 Canal Rome NY  
 Landers, Frary & Clark Center St New Britain Conn  
 Lincoln-Schlueter Floor Machine Co 1250 W Van Buren Chicago Ill  
 Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
 Twin-Brush Corp Clarksville Tenn

**FLOORING, BLOCK**

Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN**  
 Cincinnati Floor Co Eastern & Linwood Av Cincinnati 26 Ohio  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
 Cromar Co Susquehanna St Williamsport Pa  
 Evans Hardwood Flooring Co 3900 Shanto St Louis Mo  
**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Harris Mfg Co Grover at Walnut Johnson City Tenn  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Holt Hardwood Co DeWitt St Oconto Wis  
 Hurlshoro Oak Flooring Co Inc Hurlshoro Ala  
 Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn  
 Miller Bros Co Box 540 Johnson City Tenn  
 Nicky Bros Inc 2700 Summer Av Memphis Tenn  
 North Branch Flooring Co 2415 W Barry Av Chicago Ill  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Ritter (W M) Lumber Co Columbus Ohio  
 Robbins Flooring Co Reed City Mich  
 Stuart Lumber Corp Stuart 10 Va  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va  
 Wells (J W) Lumber Co Menominee Mich  
 Yawkey-Bissell Hardwood Flooring Co White Lake Wis

**FLOORING, CORK**

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Cork Insulation Co Inc 730 5th Av New York City 19 NY  
 Dodge Cork Co Inc 664 Manor Lancaster Pa  
**KENTILE INC 58 SECOND AV BROOKLYN 15 NY**

**FLOORING, FIR**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Agnew Lumber Co Centralia Wash  
 Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa  
 Canadian Western Lumber Co Ltd 15 King Edward Av New Westminster BC Canada  
 Gustina Bros Lumber Co Eugene Ore  
 Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
 Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
 Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
 Oregon-American Lumber Corp Veronia Ore  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

**FLOORING, HARDWOOD, BEECH**

Anderson-Tully Co Box 28 Memphis Tenn  
 Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark  
 Atlanta Oak Flooring Co Atlanta 1 Ga  
 Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN**  
 Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn  
 Clarke County Lumber Mills Thomasville Ala  
 Cook (F C) & Co 1208-13 Munsey Bldg Baltimore Md  
 Cotton & Hanlon Odessa NY  
**CROSSETT LUMBER CO CROSSETT ARK**  
 DeSoto Hardwood Flooring Co 977 Sledge Av Memphis Tenn  
 Emporium Forestry Co Conifer NY  
 Evans Hardwood Flooring Co 3900 Shanto St Louis Mo  
**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**

Farrin (M B) Lumber Co Spring Grove & Sta Av Cincinnati 32 Ohio  
 Fordyce-Crossett Lbr Co Fordyce Ark  
 Froot Hardwood Floors Inc Shreveport La  
 Froot Lumber Industries Drawer 1125 Shreveport 30 La  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Graybeal (C R) & Sons Box 198 Roan Mountain Tenn  
 Hardwood Corp of America Box 1091 Asheville NC  
 Harris Mfg Co Grover at Walnut Johnson City Tenn  
 Holt Hardwood Co DeWitt St Oconto Wis  
 Kenova Hardwood Flooring Co Kenova W Va  
 Leathers (A H) Mfg Co Dickson Tenn  
**LONG-BELL LUMBER CO 926 GRAND AV KANSAS CITY 6 MO**  
 Marsh Lumber Co Dover Ohio  
 McMinnville Mfg Co Box 151 McMinnville Tenn  
 Meadow River Lumber Co Rainelle W Va  
 Memphis Hardwood Flooring Co 1591 Thomas Memphis Tenn  
 Merit Oak Flooring Co 4530 Georgia Rd Birmingham Ala  
 Miller Bros Co Box 540 Johnson City Tenn  
 Miller & Co Inc Selma Ala  
 Mobile River Saw Mill Co Mt Vernon Ala  
 Monterey Hardwood Flooring Co Monterey Tenn  
 Mower Lumber Co Charleston W Va  
 Nicky Bros Inc 2700 Summer Av Memphis Tenn  
 Owen (R C) Co Hopkinsville Ky  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Phillips-Rhyme Lumber Co Inc Box 699 Brookhaven Miss  
 Robbins Flooring Co Reed City Mich  
 Rose (D M) & Co Rose Pl Knoxville 4 Tenn  
 Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
 Southern Lumber Co Warren Ark  
 Stuart Lumber Corp Stuart 10 Va  
 Texok Flooring Co Crockett Tex  
 Tibbals Flooring Co Oneida Tenn  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 Veach-May-Wilson Co Alcoa Tenn  
 Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va  
 Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo  
 Wells (J W) Lumber Co Menominee Mich  
 Williams & Voris Hardwood Co Jackson Miss  
 Wood-Mosaic Co Inc Louisville 9 Ky

**FLOORING, HARDWOOD, BIRCH**

Atlanta Oak Flooring Co Atlanta 1 Ga  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Clarke County Lumber Mills Thomasville Ala  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
 Cotton & Hanlon Odessa NY  
 Emporium Forestry Co Conifer NY  
 Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati 32 Ohio  
 Georgia-Pacific Plywood & Lumber Co Augusta Ga  
 Graybeal (C R) & Sons Box 198 Roan Mountain Tenn  
 Hardwood Corp of America Box 1091 Asheville NC  
 Holt Hardwood Co DeWitt St Oconto Wis  
 Horner Flooring Co Box 104 Dollar Bay Mich  
 Meadow River Lumber Co Rainelle W Va  
 Miller Bros Co Box 540 Johnson City Tenn  
 Mower Lumber Co Charleston W Va  
 Nicky Bros Inc 2700 Summer Av Memphis Tenn  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Phillips-Rhyme Lumber Co Box 699 Brookhaven Miss  
 Robbins Flooring Co Reed City Mich  
 Schreiber (William C) Lumber Co 2271 S Lumber Chicago 16 Ill  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 Veach-May-Wilson Co Alcoa Tenn  
 Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va  
 Wells (J W) Lumber Co Menominee Mich  
 Wood-Mosaic Co Inc Louisville 9 Ky

**FLOORING, HARDWOOD, FIBER**

Roe Wood Flooring Inc 2268 S Parkway Chicago 16 Ill

**FLOORING, HARDWOOD, MAPLE**

Atlanta Oak Flooring Co Atlanta 1 Ga  
 Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa  
 Barger (P M) Lumber Co Statesville NC  
 Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn

Clarke County Lumber Mills Thomasville Ala  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
 Cook (F C) & Co 1208-13 Munsey Bldg Baltimore 2 Md  
 Cotton & Hanlon Odessa NY  
 Cromar Co Susquehanna St Williamsport Pa  
 Emporium Forestry Co Conifer NY  
 Evans Hardwood Flooring Co 3900 Shanto St Louis Mo  
 Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati 32 Ohio  
 Ferguson (W T) Lumber Co 8th & Pine St Louis 1 Mo  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Graybeal (C R) & Sons Box 198 Roan Mountain Tenn  
 Hardwood Corp of America Box 1091 Asheville NC  
 Harris Mfg Co Grover at Walnut Johnson City Tenn  
 Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
 Holt Hardwood Co DeWitt St Oconto Wis  
 Horner Flooring Co Box 104 Dollar Bay Mich  
 Lightsey Bros Miley SC  
 Marsh Lumber Co Dover Ohio  
 McMinnville Mfg Co Box 151 McMinnville Tenn  
 Meadow River Lumber Co Rainelle W Va  
 Miller Bros Co Box 540 Johnson City Tenn  
 Monterey Hardwood Flooring Co Monterey Tenn  
 Mower Lumber Co Charleston W Va  
 Nicky Bros Inc 2700 Summer Av Memphis Tenn  
 North Branch Flooring Co 2415 W Barry Av Chicago Ill  
 Owen (R C) Co Hopkinsville Ky  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Phillips-Rhyme Lumber Co Inc Box 699 Brookhaven Miss  
 Robbins Flooring Co Reed City Mich  
 Rose (D M) & Co Rose Pl Knoxville 4 Tenn  
 Schreiber (William C) Lumber Co 2271 S Lumber Chicago 16 Ill  
 Scottdale Wood Prods Inc Box 36 Scottdale Pa  
 Stuart Lumber Corp Stuart 10 Va  
 Tibbals Flooring Co Oneida Tenn  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 Veach-May-Wilson Co Alcoa Tenn  
 Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va  
 Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo  
 Wells (J W) Lumber Co Menominee Mich  
 Wells (J W) Lumber Co of Ala Montgomery Ala  
 Williams & Voris Hardwood Co Jackson Miss  
 Wood-Mosaic Co Inc Louisville 9 Ky  
 Yawkey-Bissell Hardwood Flooring Co White Lake Wis

**FLOORING, HARDWOOD, OAK**

Anderson-Tully Co Box 28 Memphis Tenn  
 Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark  
 Atlanta Oak Flooring Co Atlanta 1 Ga  
 Atlantic Lumber Co 88 Broad Boston 4 Mass  
 Babcock Lumber Co Frick Bldg Pittsburgh 19 Pa  
 Barger (P M) Lumber Co Statesville NC  
 Barnes Lumber Corp Charlottesville Va  
 Boynton Mfg Co Boynton Va  
 Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN**  
 Carniss Lumber Co Summerville SC  
 Carpenter Oak Flooring Co & Hightower Box & Tank Co 906 N 40th Box 1449 Birmingham Ala  
 Central Oak Prods Co 24th Av N & Clifton Rd Nashville Tenn  
 Chapman & Dewey Lumber Co Memphis Tenn  
 Clarke County Lumber Mills Thomasville Ala  
**CLOUD OAK FLOORING CO 1916 N WELLS SPRINGFIELD MO**  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
 Cook (A B) Co Malvern Ark  
 Cook (F C) & Co 1208-13 Munsey Bldg Baltimore 2 Md  
 Cotton & Hanlon Odessa NY  
 Cromar Co Susquehanna St Williamsport Pa  
**CROSSETT LUMBER CO CROSSETT ARK**  
 DeSoto Hardwood Flooring Co 977 Sledge Av Memphis Tenn  
 Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo  
 Edens-Hirsch Lumber Co Corrigan Tex  
 Emporium Forestry Co Conifer NY  
 Evans Hardwood Flooring Co 2900 Shanto St Louis Mo  
 Exchange Sawmills Sales Co R A Long Bldg Kansas City 6 Mo  
**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**  
 Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio  
 Ferguson (W T) Lumber Co 8th & Pine St Louis 1 Mo  
 Fordyce-Crossett Lumber Co Fordyce Ark

Frost Lumber Industries Drawer 1125  
Shreveport 90 La

**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**

Graybeal (C R) & Sons Box 198 Roan Mountain  
Tenn

Green Lumber Co Inc Magnolia St Laurel  
Miss

Hallett Mfg Co Inc Mobile 2 Ala

Hardwood Corp of America Box 1991 Asheville  
NC

Harris Mfg Co Grover at Walnut Johnson  
City Tenn

**HIGGINS INC BOX 8001 NEW ORLEANS  
LA**

Holt Hardwood Co DeWitt St Oconto Wis

Hurtsboro Oak Flooring Co Inc Hurtsboro  
Ala

Industrial Lumber Co Little Rock Ark

Kendall Lumber Corp Grant Bldg Box 1467  
Pittsburgh 19 Pa

Lanham Hardwood Flooring Co 12th & Magnolia  
Louisville 10 Ky

Laneaster Corp Fort Worth 11 Tex

Leathers (A H) Mfg Co Dickson Tenn

Lightsey Bros Miley SC

**LONG-BELL LUMBER CO 926 GRAND AV  
KANSAS CITY 6 MO**

Marsh Lumber Co Dover Ohio

McMinnville Mfg Co Box 151 McMinnville  
Tenn

Meadow River Lumber Co Rainelle W Va

Memphis Hardwood Flooring Co 1591 Thomas  
Memphis Tenn

Merit Oak Flooring Co 4530 Georgia Rd Birmingham  
Ala

Miller & Co Inc Selma Ala

Miller Bros Co Box 540 Johnson City Tenn

Mobile River Saw Mill Co Mt Vernon Ala

Monterey Hardwood Flooring Co Monterey  
Tenn

Mower Lumber Co Charleston W Va

Nickey Bros Inc 2700 Summer Av Memphis  
Tenn

North Branch Flooring Co 2415 W Barry  
Av Chicago Ill

Owen (R C) Co Hopkinsville Ky

Ozark Oak Flooring Co Bismarck Mo

Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo

Phillips-Rhine Lumber Co Box 699 Brook-  
haven Miss

Phillips Wood Prods Co Inc Box 699 Brook-  
haven Miss

Robbins Flooring Co Reed City Mich

Rose (D M) & Co Rose Pl Knoxville 4 Tenn

Schreiber (Wm C) Lumber Co 2271 S Lum-  
ber Chicago 16 Ill

Scotch Lumber Co Fulton Ala

Scottdale Wood Prods Inc Box 36 Scottdale  
Pa

Southern Lumber Co Warren Ark

Southern Pine Lumber Co Diboll Tex

Southern Pine Lumber Co Texarkana Tex

Stewart (E A) Lumber Co Inc Box 1777  
Texarkana Tex

Stuart Lumber Corp Stuart 10 Va

Texark Flooring Co Crockett Tex

Thibault Flooring Co Oneida Tenn

Twin City Hardwood Lumber Co 509 N Cleve-  
land Av St Paul 14 Minn

Vench-May-Wilson Co Alcoa Tenn

Virginia Oak Flooring Co Inc 414 Dora Hwy  
Box 969 Pulaski Va

Webster (H E) Lumber Co 615 R A Long  
Bldg Kansas City 6 Mo

Wells (J W) Lumber Co Menominee Mich

Wells (J W) Lumber Co Ala Montgomery  
Ala

Westcott (J D) & Son Williamson W Va

Williams (J L) & Sons Sheridan Ark

Williams & Voris Hardwood Co Jackson Miss

Wood-Mosaic Co Inc Louisville 9 Ky

Yawkey-Bissell Hardwood Flooring Co White  
Lake Wis

### ► FLOORING, HARDWOOD, PECAN

Anderson-Tully Co Box 28 Memphis Tenn  
Arkansas Oak Flooring Co 2200 W Fifth Av  
Pine Bluff Ark

Bradley Lumber Co of Ark Warren Ark

Clarke County Lumber Mills Thomasville Ala

Fordyce-Crossett Lumber Co Fordyce Ark

Frost Lumber Industries Drawer 1125 Shreve-  
port 90 La

**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**

Hallett Mfg Co Mobile 2 Ala

Industrial Lumber Co Little Rock Ark

Meadow River Lumber Co Rainelle W Va

Memphis Hardwood Flooring Co 1591 Thomas  
Memphis Tenn

Miller & Co Inc Selma Ala

Mobile River Saw Mill Co Mt Vernon Ala

Nickey Bros Inc 2700 Summer Av Memphis  
Tenn

Phillips-Rhine Lumber Co Box 699 Brook-  
haven Miss

Schreiber (Wm C) Lumber Co 2271 S Lum-  
ber Chicago 16 Ill

Southern Lumber Co Warren Ark

Texark Flooring Co Crockett Tex

Twin City Hardwood Lumber Co 509 N Cleve-  
land Av St Paul 14 Minn

### ► FLOORING, HARDWOOD, PRE-FINISHED

Bradley Lumber Co of Ark Warren Ark

**BRUCE (E L) CO 1618 THOMAS AV BOX  
397 MEMPHIS 1 TENN**

Cincinnati Floor Co 4775 Eastern Av Cincinnati  
26 Ohio

Cromar Co Susquehanna St Williamsport Pa

**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**

**HIGGINS INC BOX 8001 NEW ORLEANS  
LA**

Memphis Hardwood Flooring Co 1591 Thomas  
Memphis Tenn

Memphis Oak Flooring Co Memphis Tenn

Parkay Inc 5000 Crittenden Dr Louisville 9  
Ky

Schreiber (Wm C) Lumber Co 2271 S Lum-  
ber Chicago 16 Ill

Southern Lumber Co Warren Ark

Twin City Hardwood Lumber Co 509 N Cleve-  
land Av St Paul 14 Minn

**► FLOORING, MARBLE**

Vermont Marble Co Proctor Vt

**► FLOORING, PARQUETRY**

Barger (P M) Lumber Co Statesville NC

Bradley Lumber Co of Ark Warren Ark

**BRUCE (E L) CO 1618 THOMAS AV BOX  
397 MEMPHIS 1 TENN**

**CONNOR LUMBER & LAND CO 231  
THOMAS WAUSAU WIS**

Cromar Co Susquehanna St Williamsport Pa

**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**

**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**

Graybeal (C R) & Sons Box 198 Roan Mountain  
Tenn

Harris Mfg Co Grover at Walnut Johnson  
City Tenn

**HIGGINS INC BOX 8001 NEW ORLEANS  
LA**

Parkay Inc 5000 Crittenden Dr Louisville 9  
Ky

Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo

Pearson Hardwood Flooring Co Oneida Tenn

Robbins Flooring Co Reed City Mich

Scottdale Wood Prods Inc Box 36 Scottdale  
Pa

Stuart Lumber Co Stuart 10 Va

Texark Flooring Co Crockett Tex

Twin City Hardwood Lumber Co 509 N Cleve-  
land Av St Paul 14 Minn

Virginia Oak Flooring Co Inc 414 Dora Hwy  
Box 969 Pulaski Va

**► FLOORING, PINE**

Anderson-Tully Co Box 28 Memphis Tenn

Argent Lumber Co Hardsville SC

Babeock Lumber Co Friek Bldg Pittsburgh  
19 Pa

Barger (P M) Lumber Co Statesville NC

Barnes Lumber Corp Charlottesville Va

Bradley Lumber Co of Ark Warren Ark

Brooks-Scanlon Inc Bend Ore

Clarke County Lumber Mills Thomasville Ala

Cotton & Hanlon Odessa NY

**CROSSETT LUMBER CO CROSSETT ARK**

Dergen Lumber Mfg Co Conway SC

Dierks Lumber & Coal Co 700 Dierks Bldg  
Kansas City Mo

Emporium Forestry Co Conifer NY

Exchange Sawmills Sales Co R A Long Bldg  
Kansas City 6 Mo

**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**

Ferguson (W T) Lumber Co 8th & Pine St  
Louis 1 Mo

Fordyce-Crossett Lumber Co Fordyce Ark

Frost Hardwood Floors Inc Shreveport La

Frost Lumber Industries Drawer 1125  
Shreveport 90 La

**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**

Green Lumber Co Magnolia St Laurel Miss

Hallett Mfg Co Inc Mobile 2 Ala

Hurtsboro Oak Flooring Co Inc Hurtsboro  
Ala

Lightsey Bros Miley SC

**LONG-BELL LUMBER CO 926 GRAND AV  
KANSAS CITY 6 MO**

Maak Seattle Lumber Co 3935 University  
Way Seattle 5 Wash

Miller & Co Inc Selma Ala

Phillips-Rhine Lumber Co Box 699 Brook-  
haven Miss

Scoten Lumber Co Fulton Ala

Southern Lumber Co Warren Ark

Vench-May-Wilson Co Alcoa Tenn

**► FLOORING, PLANK**

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill

Anderson-Tully Co Box 28 Memphis Tenn

Arkansas Oak Flooring Co 2200 W Fifth Av  
Pine Bluff Ark

Atlanta Oak Flooring Co Atlanta 1 Ga

Bradley Lumber Co of Ark Warren Ark

**BRUCE (E L) CO 1618 THOMAS AV BOX  
397 MEMPHIS 1 TENN**

Cincinnati Floor Co 4775 Eastern Av Cincinnati  
26 Ohio

**CLOUD OAK FLOORING CO 1916 N WEL-  
LER SPRINGFIELD MO**

Cotton & Hanlon Odessa NY

DeSoto Hardwood Flooring Co 977 Sledge Av  
Memphis Tenn

Evans Hardwood Flooring Co 3900 Shanto St  
Louis Mo

**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**

Farrin (M B) Lumber Co Spring Grove &  
Station Av Cincinnati Ohio

Frost Hardwood Floors Inc Shreveport La

Frost Lumber Industries Drawer 1125  
Shreveport 90 La

**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**

Harris Mfg Co Grover at Walnut Johnson  
City Tenn

Holt Hardwood Co DeWitt St Oconto Wis

Marsh Lumber Co Dover Ohio

McMinnville Mfg Co Box 151 McMinnville  
Tenn

Meadow River Lumber Co Rainelle W Va

Memphis Hardwood Flooring Co 1591 Thomas  
Memphis Tenn

Miller Bros Co Box 540 Johnson City Tenn

Nickey Bros Inc 2700 Summer Av Memphis  
Tenn

North Branch Flooring Co 2415 W Barry Av  
Chicago Ill

Owen (R C) Co Hopkinsville Ky

Parkay Inc 5000 Crittenden Dr Louisville 9  
Ky

Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo

Plytex Corp 1731 Elston Av Chicago 22 Ill

Rose (D M) & Co Rose Pl Knoxville 4 Tenn

Scottdale Wood Prods Inc Box 36 Scottdale  
Pa

Texark Flooring Co Crockett Tex

Virginia Oak Flooring Co Inc 414 Dora Hwy  
Box 969 Pulaski Va

Wells (J W) Lumber Co Menominee Mich

**► FLOORING, RUBBER**

**ARMSTRONG CORK CO 1010 CONCORD  
LANCASTER PA**

Camp Co Inc 6958 S State Chicago 21 Ill

Flash-Stone Co Inc 3723 Pulaski Av Philadel-  
phia 40 Pa

Forman-Ford & Co 111 E Second Minne-  
apolis Minn

Fremont Rubber Co 550 McPherson Hwy  
Fremont Ohio

Goodrich (B F) Co Flooring Div 36 Nichols  
Av Watertown 72 Mass

**GOODYEAR TIRE & RUBBER CO 1485 E  
ARCHWOOD AV AKRON 16 OHIO**

RCA Rubber Co 1833 E Market Akron 5  
Ohio

Robins Floor Prods Inc Tusculumbia Ala

Twin City Hardwood Lumber Co 509 E Cleve-  
land Av St Paul 14 Minn

United States Rubber Co 1230 Avenue of the  
Americas New York 20 NY

Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa

**WRIGHT MFG CO BOX 6567 HOUSTON 5  
TEX**

**► FLOORING, STEEL**

Acme Steel Co 2840 Archer Av Chicago 8 Ill

Armo Drainage & Metal Prods Inc 1939  
Armo Av Middletown Ohio

Columbia-Geneva Steel Div United States  
Steel Corp Russ Bldg San Francisco 6 Cal

**DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH**

Dravo Corp Dravo Bldg Fifth & Liberty  
Detroit 11 Mich

Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich

Inland Steel Co 38 S Dearborn Chicago 3 Ill

Jones & Laughlin Steel Co 3 Gateway Center  
Pittsburgh 30 Pa

Mahon (R C) Co Box 4666 Detroit 34 Mich

Rigidized Metals Corp 687 Ohio Buffalo 3 NY

Ryerson (Joseph T) & Son 2558 W 16th  
Chicago 8 Ill

United States Steel Co 525 William Penn Pl  
Pittsburgh 30 Pa

Wheeling Corrugating Co Wheeling W Va

Wood (Alan) Steel Co Ivy Rock Rd Consho-  
hocken Pa

**► FLOORING, SUB-COMPOSITE**

American Mason Safety Tread Co 125 Perry  
Lowell Mass

**BARRETT DIV ALLIED CHEMICAL & DYE  
CORP 10 RECTOR NEW YORK 6 NY**

Camp Co Inc 6958 S State Chicago 21 Ill

**► FLOORING UNDERLAYMENT**

Acme Asbestos Covering & Flooring Co 239  
N Elizabeth Chicago 7 Ill

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Camp Co Inc 6958 S State Chicago 21 Ill  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
 Consumers Clue Co 1515 N Hadley St Louis 6 Mo  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
 Forest Fiber Prods Corp Box 68 Forest Grove Ore  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill  
 Masonite Corp 111 W Washington Chicago 2 Ill  
 Mendows (W R) Inc 2 Kimball Elgin Ill  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
 National Plywoods Inc 2710 Throsp Chicago Ill  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Pioneer Latex & Chemical Co Inc Lincoln Blvd Middlesex NJ  
 Plawcock Corp 18263 Hartwell Detroit 35 Mich  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Protective Papers Inc Union Ill  
 Selby Battersby & Co 5235 Whitby Av Philadelphia 43 Pa  
 Sioane-Delaware Floor Prods Inc Box 401 Trenton 3 NJ  
**SOUTHERN PLASWOOD CORP BOX 123 HOPE ARK**  
 Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
 Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill  
 Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
 Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio  
 Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
 Tufferete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio  
**UNITED STATES GYSPUM CO 300 W ADAMS CHICAGO 6 ILL**  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY**

**▶ FLOORS & CEILINGS, PRE-CAST, CONCRETE UNIT**

Alabama Cement Tile Co 300 S 41st Birmingham 1 Ala  
 Flexicore Co Inc 1932 E Monument Av Box 825 Dayton 1 Ohio  
 Permacrete Prods Corp 1839 S Wall Columbus 7 Ohio  
 Porete Mfg Co Porete Av North Arlington NJ  
 Price Bros Co 1932 E Monument Av Dayton 1 Ohio

**▶ FLOWER BOXES**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Anchor Div Stratton & Terstege Co 300 Culbertson Av Box 311 New Albany Ind  
 Arterete Prods Co Eagle & Lawrence Rds Oakmont Havertown Pa  
**COLORCRETE INDUSTRIES INC 563 OTTAWA HOLLAND 1 MICH**  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS GLADE AT LARCH COOPERSVILLE MICH**  
 Metal Prods Co Wolfe & Jackson Fredericksburg Va  
 Vandy (E A) 14105 Merchandise Mart Chicago 54 Ill

**▶ FLUES, ASBESTOS-CEMENT**

**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**

**▶ FLUES & CHIMNEYS PREFABRICATED**

American Vitrified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio  
 Baker Corrugating Co 1801-29 West Av S LaCrosse Wis  
 Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa

Chimney Sales Corp Box 146 Fredericksburg Va  
**CONDENSATION ENGINEERING CORP 3511 W POTOMAC CHICAGO 51 ILL**  
**GENERAL PRODS CO BOX 661 FREDERICKSBURG VA**

For Quicker, More Economical Building—

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• Complete, Packaged Fireplace  
• Packaged Chimneys

GENERAL PRODUCTS CO. INC. Fredericksburg, Virginia

Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex  
 International Oil Burner Co 3800 Park Av St Louis 10 Mo  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
**METALBESTOS DIV WALLACE (W M) CO BELMONT CAL**  
**RUSSELL REINFORCED PLASTIC CORP 8 S 12TH LINDENHURST LI NY**  
**VAN-PACKER CORP 209 S LASALLE CHICAGO 4 ILL**

**▶ FOUNTAINS, DRINKING**

American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
 Chow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill  
 Dobbins Mfg Co 702 E Beardsley Elkhart Ind  
 Ebeo Mfg Co 401 W Town Columbus 8 Ohio  
**ELJER CO FORD CITY PA**  
 Haws Drinking Faucet Co 4th & Page Berkeley 10 Cal  
**KOHLER CO KOHLER WIS**  
 Murdock Mfg & Supply Co 426-30 Plum Cincinnati 2 Ohio  
 Taylor (Halsey W) Co 1259 N Park Av Warren Ohio

**▶ FRAMES, DOOR & WINDOW, METAL**

Adams Co Box 268 Dubuque Iowa  
**AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY**  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Steel Door Co 6445 E Hildale Detroit 34 Mich  
**AMERICAN WELDING & MFG CO 190 DIETZ RD WARREN OHIO**  
 Bayley (William) Co 1200 Warder Springfield Ohio  
**BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA**  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Copco Steel & Engineering Co 14035 Grand River Detroit 27 Mich  
 Crittall Inc 1319 Lincoln Waukesha Wis  
 Dahlstrom Metallic Door Co 443 Buffalo Jamestown NY  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
 Diebold Inc 818 Mullerry Rd SE Canton 2 Ohio  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
 International Fireproof Door Co 76 Lexington Ave Brooklyn 5 NY  
 International Steel Co 1321 Edgar Evansville 7 Ind  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
 Mosker Bros Iron Co 4330 Geraldine St Louis 2 Mo  
 Metal Crafters E Av at 18th NE Cedar Rapids Iowa  
 National Kalamain Co Inc 418 Lexington Av Brooklyn 21 NY  
**ONE-DER FRAME CORP 1232 N 37TH PL BOX 3068 BIRMINGHAM 3 ALA**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
**RICHARDS-WILCOX MFG CO 220 THIRD ATRORA ILL**  
 Richmond Fireproof Door Co Box 334 Richmond Ind  
 Schacht Associates Inc 1175 E 156th New York 59 NY  
 Soule Steel Co 1750 Army San Francisco 24 Cal  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**  
 Sterling Windows Inc 369 Lexington New York NY

Truline Developments 9155 Sunset Blvd West Hollywood 46 Cal  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STEEL FABRICATORS INC 333 GASCHÉ WOOSTER OHIO**  
 Virginia Metal Prods Inc Dept A-44 Orange Va  
 Waueter Iron Wks 1905 S 1st Milwaukee 1 Wis  
 Wenzel Mfg Co Stamford Conn  
 Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa

**▶ FRAMES, DOOR, WOOD**

American Sash & Door Co 16th & Bellfontaine Kansas City 1 Mo  
**ANDERSEN CORP BAYPORT MINN**  
 Hiles-Coleman Lumber Co Omak Wash  
 Bradley Lumber Co of Ark Warren Ark  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Cole Mfg Co Box 2657 Memphis 2 Tenn  
**CROSSETT LUMBER CO CROSSETT ARK**  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Deer Park Pine Industry Inc Deer Park Wash  
 Dierks Lumber & Coal Co 709 Dierks Bldg Kansas City Mo  
 Farley & Loetscher Mfg Co Dubuque Iowa  
 Fordyce-Crossett Lumber Co Fordyce Ark  
 General Panel Corp 1101 W Victory Blvd Burbank Cal  
 Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
 Hooser Sash & Door Co Anderson Ind  
 Hurd Millwork Corp Medford Wis  
 Huttig Mfg Co Muscatine Iowa  
 Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Ideal Co 24th & Mary Waco Tex  
 Keystone Frame & Mfg Co Box 873 Spokane Wash  
 Kinzua Pine Mills Co Kinzua Ore  
 Lockwood Wood Prods Box 338 Beaverton Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
**MALTA MFG CO 35 ELLIOTT MALTA OHIO**  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill  
 Morgan Co 520 Oregon Oshkosh Wis  
 Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
 Northern Sash & Door Co Hawkins Wis  
 Pacific Mfg Co 2610 The Alameda Santa Clara Cal  
 Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
 Quigley (J R) Co Gloucester City NJ  
 Roach & Musser Co Muscatine Iowa  
 Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
 Sezelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
 Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio  
 Silerest Co 100 Thomas Wausau Wis  
 Southern Lumber Co Warren Ark  
 Southern Mill & Mfg Co Tulsa Okla  
 Spokane Pine Prods Co 348 N Wall Spokane Wash  
 Templeton (Herbert A) Lumber Co Portland 5 Ore  
 Walker (T V) & Son Inc 217 N Lake Box 547 Burbank Cal  
 Walled Lake Door Co Walled Lake Mich  
 Washington Mfg Co Tacoma 1 Wash  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN**  
 Woodward Lumber Co Cottage Grove Ore

**▶ FRAMES, METAL FOR STRUCTURAL GLASS**

Alden Mfg Co 201 W Walnut Painesville Ohio  
 Dusing & Hunt Inc 1927 Elmwood Av Buffalo 7 NY  
**KAWNEER CO 1105 N FRONT NILES MICH**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Sterling Windows Inc 369 Lexington Av New York 17 NY

**▶ FRAMES, SINK WELL**

Alden Mfg Co 201 W Walnut Painesville Ohio  
**B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO**  
**BRIGGS PLUMBINGWARE CO 3001 MILLER AV DETROIT 11 MICH**  
 Decortie Inc 2115 Peachtree Rd Atlanta Ga  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

National Guard Prods 757 Madison Memphis 7 Tenn  
 Selek (Walter E) & Co 223 W Hubbard Chicago 11 Ill  
 Trimeidge Inc 4021 Mahoning Av Youngstown Ohio  
 Werner (R D) Co 295 5th Av New York 16 NY  
**YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO**

► **FRAMES, WINDOW, WOOD**

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo  
**ANDERSEN CORP BAYPORT MINN**  
 Biles-Coleman Lumber Co Inc Omak Wash  
 Bradley Miller & Co Bay City Mich  
 Brown-Graves Co 191 E Miller Av Akron 1 Ohio  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
 Cameron (Wm) & Co Drawer 1069 Waco Tex  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Clay Equipment Corp 114s Blake Cedar Falls Iowa  
 Cole Mfg Co Box 2657 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Deer Park Pine Industry Inc Deer Park Wash  
 Diamond Match Co Chico Cal  
 Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo  
 Fabrow Mfg Inc 7208 Douglas Rd Toledo Ohio  
 Farley & Loetseher Mfg Co Dubuque Iowa  
 Frost Lumber Industries Drawer 1125 Shreveport 90 La  
 General Woodcraft Co 3323 Paterson Plank Rd North Bergen NJ  
 Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
 Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
 Hurd Millwork Corp Medford Wis  
 Huttig Mfg Co Muscatine Iowa  
 Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Ideal Co 24th & Mary Waco Tex  
 Keystone Frame & Mfg Co Box 873 Spokane 3 Wash  
 Kinzua Pine Mills Co Kinzua Ore

Lockwood Wood Prods Box 338 Beaverton Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
**MALTA MFG CO 35 ELLIOTT MALTA OHIO**  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill  
 Missoula White Pine Sash Co Scott & Stoddard Missoula Mont  
 Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
 National Screen Co Inc Madison Av Extended Suffolk Va  
 National Screen Door Co Box 1887 Montgomery 3 Ala  
 Northern Sash & Door Co Hawkins Wis  
 Pacific Mfg Co 2610 The Alameda Santa Clara Cal  
 Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
 Phillips-Rhyne Lumber Co Inc Box 699 Brookhaven Miss  
 Quigley (J R) Co Gloucester City NJ  
 Roach & Musser Co Muscatine Iowa  
 Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
**R.O.W. SALES CO 1365 ACADEMY FERNDALE MICH**  
 Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
 Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio  
 Silercost Co 100 Thomas Wausau Wis  
 Snelaker (Frank C) & Co Inc 3531 N 9th Philadelphia 19 Pa  
 Spokane Pine Prods Co 348 N Wall Spokane Wash  
 Spokane Sash & Door Co Spokane Wash  
 Western Pine Mfg Co 315 E Jackson Spokane 7 Wash  
 White Pine Sash Co 4005 E Broadway Spokane Wash

► **FRAMING, STEEL**

American Bridge Div US Steel Corp 525 William Penn Pl Pittsburgh 30 Pa  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa  
 Decatur Iron & Steel Co 2nd St W Decatur Ala

Fries & Son Steel Construction & Engineering Co Covington Ky  
 Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 International Steel Co 1321 Edgar Evansville 7 Ind  
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
 Laclede Steel Co Arcade Bldg St Louis Mo  
 Macomber Inc 1925 Tenth Canton Ohio  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Republic Steel Corp Republic Bldg Canton Ohio  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
 Stran-Steel Div Great Lakes Steel Corp Ecorse 29 Mich  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
 Unistrut Prods Co 1013 W Washington Chicago 7 Ill  
**UNITED STEEL FABRICATORS INC 333 GASCHÉ WOOSTER OHIO**  
 Wheeling Corrugating Co Wheeling W Va

► **FRONTS, STORE**

**BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX**  
 Brasco Mfg Co 152nd & Commercial Av Harvey Ill  
 Davidson Enamel Prods Inc 800 E Kibby Lima Ohio  
 Fentron Industries Inc 2801 Market Seattle 7 Wash  
 General Porcelain Enameling & Mfg Co 2700 N Karlov Av Chicago 39 Ill  
 Ingram-Richardson Mfg Co Co 32nd St Beaver Falls Pa  
**KAWNEER CO 1105 N FRONT NILES MICH**  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
**LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG TOLEDO 3 OHIO**  
 Natorc Inc 15 Fourth Taunton Mass  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
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BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY  
California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal  
Carboia Chemical Co 46 Harris Rd Natural Bridge NY  
Central Chemical Corp Hagerstown Md  
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN  
Dow Chemical Co 1900 Main Midland Mich  
General Chemical Div Allied Chemical & Dye Corp 40 Rector New York NY  
Hammond Paint & Chemical Co 3312 Railroad Av Beacon NY  
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO  
Oakite Prods Inc 19 Rector New York 6 NY  
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Rohm & Haas Co Washington Sq Philadelphia 5 Pa  
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
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Badger Corrugating Co 1901-39 West Av S LaCrosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Cincinnati Sheet Metal & Roofing Co 226 E Front Cincinnati 2 Ohio  
Clayton & Lambert Mfg Co 1701 Dixie Hwy Louisville 10 Ky  
Henry Furnace Co Medina Ohio  
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
Jettonaire Inc 1100 E Warrington Av Pittsburgh 10 Pa  
Krauser-Boyd Inc 533 River Rd North Tonawanda NY  
LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
Lyon Conklin & Co Inc Race & McComas Baltimore 30 Md  
MAJESTIC CO HALL ST HUNTINGTON IND  
METALBESTOS DIV WALLACE (WM) CO BELMONT CAL  
Mueller Climatorp Corp 2005 W Oklahoma Milwaukee 15 Wis  
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa  
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio  
Sioux Steel Co Sioux Falls SD  
United States Register Co 344 E Burnham Battle Creek Mich  
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn  
Wheeling Corrugating Co Wheeling W Va  
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

### ► FURNACES, CHIMNEY

AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO  
Badger Corrugating Co 1901-39 West Av S LaCrosse Wis  
MAJESTIC CO HALL ST HUNTINGTON IND

### ► FURNACES, COAL

American Foundry & Furnace Co 125 N McClun Bloomington Ill  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
Auburn Foundry Co Inc Dallas & 11th Auburn Ind  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Century Engineering Corp 401 Third SE Cedar Rapids Iowa  
Conco Engineering Wks Div H D Conkey Co 1940 Thomas Mendota Ill  
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
DECO APPLIANCE DIV GENERAL MOTORS CORP LYLELL & WHITNEY ROCHESTER NY  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Dowagiac Steel Furnace Co Dowagiac Mich  
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL

Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
General Machine Co Inc 4th & Furnace Emanuel Pa  
Green Colonial Furnace Co 316 SW 3rd Des Moines Iowa  
Henry Furnace Co Medina Ohio  
Hess Co 1855 S 54th Av Cicero Ill  
Holland Furnace Co Holland Mich  
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL  
International Heater Co 101 Park Av Utica NY  
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
Krauser-Boyd Inc 533 River Rd North Tonawanda NY  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
MAJESTIC CO HALL ST HUNTINGTON IND  
Meyer Furnace Co 1300 S Washington Peoria Ill  
Mueller Climatorp Corp 2005 W Oklahoma Milwaukee 15 Wis  
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO  
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich  
Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Rybolt Heater Co 615 Miller Ashland Ohio  
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
Thatcher Furnace Co Center St Garwood NJ  
UNITED STATES RADIATOR CORP BUHL BLDG DETROIT 8 MICH  
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn  
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind  
Wheeling Furnace Corp Martins Ferry Ohio  
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO  
Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

### ► FURNACES, CONVERTIBLE, COAL, OIL OR GAS

American Foundry & Furnace Co 125 N McClun Bloomington Ill  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
Badger Corrugating Co 1901-39 West Av S LaCrosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa  
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
Henry Furnace Co Medina Ohio  
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich  
International Heater Co 101 Park Av Utica 2 NY  
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
Jettonaire Inc 1100 E Warrington Av Pittsburgh 10 Pa  
Meyer Furnace Co 1300 S Washington Peoria Ill  
NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO  
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO  
Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Schelm Bros Inc 201 Anna East Peoria 8 Ill  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind  
WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO

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Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
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Auburn Foundry Co Inc Dallas & 11th Auburn Ind  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Century Engineering Corp 401 Third SE Cedar Rapids Iowa  
Conco Engineering Wks Div H D Conkey Co 1940 Thomas Mendota Ill  
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
DECO APPLIANCE DIV GENERAL MOTORS CORP LYLELL & WHITNEY ROCHESTER NY  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Dowagiac Steel Furnace Co Dowagiac Mich  
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL

Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
Henry Furnace Co Medina Ohio  
Hess Co 1855 S 54th Av Cicero Ill  
Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich  
International Heater Co 101 Park Av Utica NY  
International Oil Burner Co 3800 Park Av St Louis 10 Mo  
KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY  
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa  
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LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL  
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NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO  
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Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Patten (J V) Co 550 DeKalb Av Sycamore Ill  
Parpe Furnace Co 801 Royal Oaks Dr Monrovia Cal  
RICHMOND RADIATOR CO BOX 111 ME-TUCHEN NJ  
Royal Jet Inc 1024 Westminster Alhambra Cal  
Schelm Bros Inc 201 Anna East Peoria 8 Ill  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO  
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### ► FURNACES, FLOOR

Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO  
Cavalier Corp Chattanooga Tenn  
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Evans Prods Co 13101 Eckles Rd Plymouth Mich  
Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich  
Glenwood Range Co 300 W Water Taunton Mass  
Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal  
Hotstream Heater Co 2363 E 69th Cleveland Ohio  
Hunt Heater Corp 220 12th Av N Nashville Tenn  
IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
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Kresky Mfg Co 2nd & "H" Petaluma Cal  
Kresno-Stamm Mfg Corp 400 Commercial Av Palisades Park NJ  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL  
NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO  
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Palmer Mfg Co 2200 W Fillmore Phoenix Ariz  
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PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO  
Premier Furnace Co Box 150 Dowagiac Mich  
Preway Inc 1430 Second N Wisconsin Rapids Wis  
Quaker Mfg Co 1147 Merchandise Mart Chicago Ill  
Quon Stove Wks 505 Front Albert Lea Minn  
RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY  
Rudy Furnace Co Dowagiac Mich  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO  
TEMCO INC 4104 PARK AV NASHVILLE 9 TENN  
Tennessee Enamel Mfg Co 4104 Park Av Nashville Tenn  
US Machine Corp Lebanon Ind  
Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal

Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio  
Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
Zink (John) Co 4401 S Peoria Tulsa 1 Okla

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**AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO**  
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Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
Auburn Foundry Co Inc Dallas & 11th Auburn Ind  
Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bard Mfg Co Bryan Ohio  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Cleveland Steel Prods Co ToridHeat Div 15801 Brookpark Rd Cleveland 11 Ohio  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS**  
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio  
Conco Engineering Wks Div Conkey (H D) Co 1940 Thomas Mendota Ill  
Coronaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
**DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY**  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Electric Furnace-Man Inc Emmaus Pa  
**ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY**  
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
International Heater Co 101 Park Av Utica NY  
International Oil Burner Co 3800 Park Av St Louis 10 Mo  
**IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO**  
**KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY**  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
**NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO**  
Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Patten (J V) Co 550 DeKalb Av Sycamore Ill  
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO**  
Premier Furnace Co Box 150 Dowagiac Mich  
Queen Stove Wks 505 Front Albert Lea Minn  
**REZTOR MFG CO DAVID ST MERCER PA**  
**RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY**  
**RICHMOND RADIATOR CO BOX 111 METUCHEN NJ**  
**ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY**  
Royal Jet Inc 1024 Westminster Alhambra Cal  
Schelm Bros Inc 201 Anna East Peoria 8 Ill  
Smith (A O) Corp Permaglas-Heating Div Kan-kanee Ill  
Steel City Furnace Co Springdale Pa  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
**SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO**  
Thatcher Furnace Co Center St Garwood NJ  
**TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH**  
Turb-O-Tube Furnace Co 204 Rhode Island Av Buffalo NY  
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 18 Minn  
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**  
**YORK-SHIPLEY INC BOX 349 YORK PA**

Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**

### ► FURNACES, GAS-FIRED

**AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO**  
American Foundry & Furnace Co 135 N McClun Bloomington Ill  
American Gas Machine Co 505 Front Albert Lea Minn  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
Badger Corrugating Co 1801 - 39 West Av S LaCrosse Wis  
Bard Mfg Co Bryan Ohio  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
**BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO**  
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa  
Cleveland Steel Prods Co ToridHeat Div 15801 Brookpark Rd Cleveland 11 Ohio  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN**  
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio  
Conco Engineering Wks Div Conkey (H D) Co 1940 Thomas Mendota Ill  
Coronaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
**DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY**  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Dowagiac Steel Furnace Co Dowagiac Mich  
Dravo Corp Fifth & Liberty Aves Dravo Bldg Pittsburgh 22 Pa  
**DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL**  
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
**EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL**  
Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md  
Forest City Foundries Inc 2500 W 27th Cleveland Ohio  
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
**GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ**  
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich  
Great Colonial Furnace Co 316 SW 3rd Des Moines Iowa  
Hart Heat Div Avery Farm Machinery Co 2006 S Washington Peoria Ill  
Harvey-Whipple Inc 55 Emery Springfield Mass  
Heil Co 3000 W Montana Milwaukee 1 Wis  
Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
Henry Furnace Co Medina Ohio  
Hess Co 1855 S 54th Av Cicero Ill  
Holland Furnace Co Holland Mich  
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill  
**INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
International Heater Co 101 Park Av Utica 2 NY  
International Oil Burner Co 3800 Park Av St Louis 10 Mo  
**IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO**  
Jetronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa  
**KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY**  
King Stove & Range Co Sheffield Ala  
Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa  
Kresky Mfg Co 2nd & "H" Petaluma Cal  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
Meyer Furnace Co 1300 S Washington Peoria Ill  
**MORRISON STEEL PRODS INC 683 AMHERST BUFFALO 7 NY**  
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee Wis  
**NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO**  
Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich  
**NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO**  
Olsen (C A) Mfg Co Filbert St Elyria Ohio  
Palmer Mfg Co 2290 W Fillmore Phoenix Ariz

Patten (J V) Co 550 DeKalb Av Sycamore Ill  
Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO**  
Premier Furnace Co Box 150 Dowagiac Mich  
Queen Stove Wks 505 Front Albert Lea Minn  
**REZTOR MFG CO DAVID ST MERCER PA**  
**RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY**  
**RICHMOND RADIATOR CO BOX 111 METUCHEN NJ**  
**ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY**  
Royal Jet Inc 1024 Westminster Alhambra Cal  
Schelm Bros Inc 201 Anna East Peoria 8 Ill  
Smith (A O) Corp Permaglas-Heating Div Kan-kanee Ill  
Steel City Furnace Co Springdale Pa  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
**SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO**  
Thatcher Furnace Co Center St Garwood NJ  
**TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH**  
Turb-O-Tube Furnace Co 204 Rhode Island Av Buffalo NY  
Waterman-Waterbury Co 1121 Jackson NE Minneapolis 18 Minn  
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**  
**YORK-SHIPLEY INC BOX 349 YORK PA**

### ► FURNACES, OIL-FIRED

Aeroil Prods Inc 69 Wesley South Hackensack NJ  
**AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO**  
American Foundry & Furnace Co 125 N McClun Bloomington Ill  
American Gas Machine Co 505 Front Albert Lea Minn  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bard Mfg Co Bryan Ohio  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
**BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND 10 OHIO**  
Century Engineering Corp 401 3rd SE Cedar Rapids Iowa  
Cleveland Steel Prods Co ToridHeat Div 15801 Brookpark Rd Cleveland 11 Ohio  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN**  
Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio  
Conco Engineering Wks Conkey (H D) Co 1940 Thomas Mendota Ill  
**DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY**  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Dowagiac Steel Furnace Co Dowagiac Mich  
Dravo Corp Fifth & Liberty Aves Dravo Bldg Pittsburgh 22 Pa  
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
Electric Furnace-Man Inc Emmaus Pa  
Evans Prods Co 13101 Eckles Rd Plymouth Mich  
Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md  
Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
General Automatic Prods Corp 2500 Sinclair Lane Baltimore 13 Md  
**GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ**  
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass  
Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich  
Hart Heat Div Avery Farm Machinery Co 2006 S Washington Peoria Ill  
Harvey-Whipple Inc 55 Emery Springfield Mass  
Heil Co 3000 W Montana Milwaukee 1 Wis  
Henry Furnace Co Medina Ohio  
Hess Co 1855 S 54th Av Cicero Ill  
Holland Furnace Co Holland Mich  
Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill  
**INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
International Heater Co 101 Park Av Utica 2 NY  
International Oil Burner Co 3800 Park Av St Louis 10 Mo  
**IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO**

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Jettronaire Inc 1100 E Warrington Av Pittsburgh 10 Pa  
**KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY**  
 Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa  
 Kresky Mfg Co 2nd & "H" Petaluma Cal  
 Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ  
 Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Meyer Furnace Co 1300 S Washington Peoria Ill  
**MORRISON STEEL PRODS INC 683 AMHERST BUFFALO 7 NY**  
 Mueller Climatroc Corp 2005 W Oklahoma Milwaukee Wis  
**NIAGARA FURNACE DIV FOREST CITY FOUNDRIES CO 2500 W 27TH CLEVELAND 13 OHIO**  
 Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich  
 Olsen (C A) Mfg Co Filbert St Elyria Ohio  
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**PERFECTION STOVE CO 7699 PLATT AV CLEVELAND 4 OHIO**  
 Petroleum Heat & Power Co Springfield Av Stamford Conn  
 Premier Furnace Co Box 150 Dowagiac Mich  
 Preway Inc 1439 Second N Wisconsin Rapids Wis  
 Ray Oil Burner Co 1301 San Jose Av San Francisco 12 Cal  
 Reliance Mfg Co Box 2231 626 SE Stark Portland 14 Ore  
 Rheem Mfg Co 4361 Firestone Blvd South Gate Cal  
**RICHMOND RADIATOR CO BOX 111 METCHEN NJ**  
 Schelm Bros Inc 201 Anna East Peoria 8 Ill  
 Silent Sioux Corp 208 W College Av Orange City Iowa  
 Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
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 Thatcher Furnace Co Center St Garwood NJ  
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 Turb-O-Tube Furnace Co 204 Rhode Island Av Buffalo NY  
 Waterman-Waterbury Co 1121 Jackson NE Minneapolis 13 Minn  
 Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind  
 Wedgwood Div Rheem Mfg Co Wells Av Newark Cal  
 Williams Oil-O-Matic Div Eureka-Williams Co 1201 E Bell Bloomington Ill  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**  
**YORK-SHIPLEY INC BOX 349 YORK PA**

### ► FURNACES, SUSPENDED

**AIRTEMP DIV CHRYSLER CORP 1610 WEBSTER DAYTON 1 OHIO**  
 Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
 Armstrong Furnace Co 851 W 3rd Av Columbus 8 Ohio  
 Auburn Foundry Co Inc Dallas & 11th Auburn Ind  
 Automatic Gas Equipment Co 301 Brushton Av Pittsburgh 21 Pa  
 Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 Century Engineering Corp 401 Third SE Cedar Rapids Iowa  
 Cox Mfg Co N Walnut St Ridgeville Ind  
**DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY**  
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 Fluid Heat Div Anchor Post Prods Inc 6500 Eastern Av Baltimore 24 Md  
 Front Rank Mfg Co Div of Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
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 Harvey-Whipple Inc 55 Emery Springfield Mass  
 Henry Furnace Co Medina Ohio  
**IRON FURNACE MFG CO 3170 W 106TH CLEVELAND 11 OHIO**  
**JACKSON & CHURCH 321 N HAMILTON SAGINAW MICH**  
**KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY**  
 Ko-Z-Aire Prods Inc 401 W Coolbaugh Red Oak Iowa  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
 Meyer Furnace Co 1300 S Washington Peoria Ill  
 Mueller Climatroc Corp 2005 W Oklahoma Milwaukee Wis  
 Norge Heat Div Borg-Warner Corp 672 E Woodbridge Av Detroit 26 Mich  
**NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO**  
 Olsen (C A) Mfg Co Filbert St Elyria Ohio

APRIL 1954

Palmer Mfg Co 2200 W Fillmore Phoenix Ariz  
 Patten (J V) Co 550 DeKalb Av Sycamore Ill  
**PERFECTION STOVE CO 7699 PLATT AV CLEVELAND 4 OHIO**  
**REZTOR MFG CO DAVID ST MERCER PA**  
 Royal Jet Inc 1024 Westminster Alhambra Cal  
 Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
**SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO**  
 Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**

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**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN**  
 Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
 Delta Heating Corp 1 Cole Trenton 8 NJ  
**ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY**  
**EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL**  
**IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO**  
 Kresky Mfg Co 2nd & "H" Petaluma Cal  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
**NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO**  
 Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
**OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO**  
 Rheem Mfg Co 4361 Firestone Blvd South Gate Cal  
 Royal Jet Inc 1024 Westminster Alhambra Cal  
**TEMCO INC 4104 PARK AV NASHVILLE 9 TENN**  
 US Machine Corp Lebanon Ind  
 Wedgwood Div Rheem Mfg Co Wells Av Newark Cal

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**BIANCO MFG CO 2736 VICTOR ST LOUIS 4 MO**  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Ideal Co 24th & Mary Waco Tex  
 Morgan Co 520 Oregon Oshkosh Wis  
 Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis

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Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
 Cole Electric Prods Div Federal Electric Prods Co 43-06 Crescent Long Island City 1 NY  
 Columbia Metal Box Co 260 E 143rd New York 81 NY  
 Electrical Engineers Equipment Co Woodmanse Division St Melrose Park Ill  
 Federal Electric Prods Co 50 Paris Newark 5 NJ  
**GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN**  
 Hedges-Walsh-Weilner Div Combination Engineering Superheater Inc 208 Madison Av New York 16 NY  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Leonard Electric Mfg Co 3003 Perkins Av Cleveland Ohio  
 Lozan Clay Prods Co Logan Ohio  
 Porcelain Prods Inc 422 W Sandusky Findlay Ohio  
 Trumbull Components Dept General Electric Co Plainville Conn  
**WESTINGHOUSE ELECTRIC CORP BOX 866 PITTSBURGH 30 PA**  
 Wurdack (Wm) Electric Div Federal Electric Prods Co 4400 Clayton Av St Louis 10 Mo

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**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
**AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND**  
 Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio  
 Berger (Thomas W) Inc 6 E Fourth Cincinnati Ohio  
**CALCINATOR CORP 28TH & WATER BAY CITY MICH**  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
**CROSLBY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI 25 OHIO**  
**GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY**  
**GIVEN MFG CO 3301 FRUITLAND AV LOS ANGELES 58 CAL**  
**HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL**

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 London Furniture Co Cleveland Ohio  
**MULLINS MFG CORP WARREN OHIO**  
**MURRAY CORP OF AMERICA 1900 S WASHINGTON SCRANTON 2 PA**  
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 Olsen (C A) Mfg Co Filbert St Elyria Ohio  
 Pioneer Water Heater Corp 3131 San Fernando Rd Los Angeles 65 Cal  
 Schaeble Co 1086 Summer Cincinnati 4 Ohio  
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 Universal Major Elec Appliance Co Box 119 Lima Ohio  
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 Williams Oil-O-Matic Div Eureka-Williams Corp 1201 E Bell Bloomington Ill

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 Blaugas Co Omaha Neb  
 Blueflame Corp 2500 LaGrange Toledo 8 Ohio  
 Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY  
 Delta Tank Mfg Co Inc Box 1469 Baton Rouge La  
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 Shell Oil Co Inc 50 W 50th New York 20 NY  
 Skelgas Div Skelly Oil Co Kansas City Mo  
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### ► GASKETS, SEWER PIPE

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**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
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 Division Lead Co 7742 W 61st Pl Summit Ill  
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 Pressite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
 Universal Concrete Pipe Co Inc 297 S High Columbus 15 Ohio  
 Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio

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**AMERICAN STEEL & WIRE CO ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
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 Continental Steel Corp Kokomo Ind  
 Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
 Dare Prods Inc Box 157 Battelle Creek Mich  
 Franklin Equipment Co Monticello Iowa  
 General Implement Corp Terminal Tower Cleveland 13 Ohio  
 Hargrove Co 4th at New York Des Moines Iowa  
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 Indiana Steel & Wire Co Muncie Ind  
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**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
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 Northwestern Steel & Wire Co Sterling Ill  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
**ROWE MFG CO GALESBURG ILL**  
 Sheffield Steel Corp 1938 Shepherd Av Kansas City 3 Mo  
 Standard Mfg Co 220 E 4th Cedar Falls Iowa  
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**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

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**QUICK FACTS  
FOR BUILDERS**

# Weldwood®

## Weldwood Texture One-Eleven

EXTERIOR FIR PLYWOOD EXT-DFPA®

### An exciting New Panel Material Combining Line and Texture

Here is a dramatic new panel material for siding of homes and buildings, for gable ends, soffits and breezeways, and for striking interior decorative effects. Texture One-Eleven presents unlimited possibilities for architects and builders to achieve fresh new designs accenting pattern and texture.



Texture One-Eleven is a quality product manufactured to rigid Weldwood standards of performance and appearance.

### Cuts building time and expense

Aside from its dramatic beauty one of the chief merits of Texture One-Eleven is the speed by which it can be installed. 16 inch and 32 inch widths are designed to facilitate one-man application. Each width fits over standard stud spacing and rabbeted edges provide tight "blind" joints without special treatment. Patterns include grooves spaced 4" o.c. and 2" o.c.

**Finishing.** Weldwood Texture One-Eleven should be stained rather than painted. An exterior stain finish adds to the architectural beauty of the real wood siding and the texture pattern. Also, stain is more economical, more durable and easier to maintain in this use. The use of darker colors, a fresh architectural trend, is especially appropriate with Texture One-Eleven. Because of the texture and dominance of the grooves, any checks that may occur in stained Texture One-Eleven merely add to the beauty of the weathered effect. Clear finishes are not recommended.

### WELDWOOD TEXTURE ONE-ELEVEN

Real wood in new dimensional beauty

#### SPECIFICATIONS:

**Type:** Exterior type Douglas fir plywood with 100% waterproof glue EXT-DFPA meets U. S. Commercial Standard CS45-4B.

**Thickness:** 3/8-inch, 5-ply construction.

**Appearance:** Unsanded (rough) for texture. All plies are of C-quality Douglas fir veneer. Permits tight knots up to 1 1/2"; knotholes up to 1"; splits up to 1/8".

Faces are free from patches or tape.

**Widths:** Two patterns . . . 16/2 and 32/4. The 16/2 pattern is of panels 16" wide net (16-3/8" overall) with grooves 2" o.c. The 32/4 pattern is of panels 32" wide net (32-3/8" overall) with grooves 4" o.c. Grooves are 3/8" wide and 1/4" deep. All panels are rabbeted both edges to provide hidden joints (shiplap) and make another groove at each joint. Rabbet is 5/16" deep; width of rabbet on face side is 3/4" and on

back side 3/8". (Also available, 16" panels with grooves 4" o.c. and 32" panels with grooves 2" o.c.)

**Lengths:** 96" and 120". (Shorter lengths also available.)

**Packaging:** Texture One-Eleven is packaged in sturdy, attractive corrugated paper containers clearly marked as to contents.

## ◦ ► Interior and exterior plywoods

### Douglas Fir Weldwood

Grades of Interior type Weldwood	GRADE TRADEMARKS	FACE	BACK	WIDTHS (INCHES)	LENGTHS (INCHES)	THICKNESSES (INCHES)
	Interior A-A	A	A	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4
Interior A-B	A	B	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1	
Plypanel	A	D	30, 36, 48, 60	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4	
Plybase	B	D	30, 36, 48	60, 72, 84, 96, 120, 144	1/8, 1/4, 3/8, 1/2, 5/8, 3/4	
Plyscord	C	D	24, 30, 36, 48	72, 84, 96, 108, 120	3/16, 3/8, 1/2, 5/8, 3/4	
L-1R (Interior) Plyform	B	B	48	96, 120	3/8, 3/4	
Grades of Exterior type Weldwood	Ext-A-A	A	A	30, 36, 48	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-A-B	A	B	30, 36, 48, 60	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Plyshield	A	C	30, 36, 48, 60	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Utility	B	C	30, 36, 48	60, 72, 84, 96, 108, 120, 144, 168, 192	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4
	Ext-Sheathing	C	C	24, 36, 48	72, 84, 96, 108, 120	3/16, 3/8, 1/2, 5/8, 3/4
	Ext-Plyform	B	B	36, 48	72, 84, 96, 120	3/8, 3/4

### Low-cost Weldbord

Here's an all purpose good-one-side gum plywood that's priced economically—within range of the lowest priced softwood. Weldbord is made from the finest grade southern hardwood. Finishes beautifully—no pre-sealer is needed, there is no annoying grain raise. Takes paint and stain perfectly. Available in 8' x 4', 7' x 4' and 6' x 4' panel sizes 1/4" thick. (Grain runs short way.)

### Weldwood Knotty Pine

Only selected Idaho Pine is used for these beautiful and economical panels. Ideal for playrooms and living rooms. Knots are of the proper size and placement, and shrinkage, always a problem with lumber knotty pine, is largely eliminated. *Thicknesses:* 1/4" and 3/4". *Width:* 48". *Lengths:* 48", 72", 84" and 96"

There is a  
Weldwood  
Product  
for every  
part of  
the home



- Concrete forms
- Wall and Roof Sheathing
- Finishing Materials and Adhesives
- Cabinets and built-ins
- Interior walls
- Exterior Siding Materials
- Counters, Table Tops and Bars
- Doors
- Sub-flooring
- Bathrooms and Kitchens
- Hardboards

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Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
Smith (F D) Wire & Iron Wks 2340 N Clybourne Av Chicago 14 Ill  
Stewart Iron Wks Co Inc Box 1039 Cincinnati 1 Ohio

### ► GATES, WROUGHT IRON

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Anchor Post Fence Div Anchor Post Prods Inc 6673 Eastern Av Baltimore Md  
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Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
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Smith Ark  
**LIBBEY-OWENS-FORD GLASS CO NICHOLAS  
BLDG TOLEDO 3 OHIO**  
Nurre Cos Inc Bloomington Ind  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Rock Island Millwork Co 2525 Fourth Av  
Rock Island Ill  
Royal Glass Wks Corp 50-20 25th Long Is-  
land City  
**RUSSELL REINFORCED PLASTICS CORP**  
8 S 12TH LINDENHURST 1J NY

**▶ GLASS, WINDOW, WIRE**

Iache (Semon) & Co 636 Greenwich New  
York 14 NY  
Blue Ridge Glass Corp Kingsport Tenn  
Cadillac Glass Co 2100 S Peoria Chicago 8 Ill  
Conroy-Prough Glass Co 1430 Western Av  
Pittsburgh Pa  
Dearborn Glass Co 2402 W 21st Chicago 8 Ill  
Goshen Sash & Door Co E Purl Goshen Ind  
Hagemann Cos Inc 2145 Central Pkwy Cin-  
cinnati 14 Ohio  
Harding Glass Co 2524 Midland Bldg Fort  
Smith Ark  
Hoosier Sash & Door Co Anderson Ind  
**LIBBEY-OWENS-FORD GLASS CO NICHOLAS  
BLDG TOLEDO 3 OHIO**  
**MISSISSIPPI GLASS CO 88 ANGELICA ST  
LOUIS MO**  
National Mirror Wks 1925 Kishwaukee Rock-  
ford Ill  
Nurre Cos Inc Bloomington Ind  
Pennsylvania Wire Glass Co 1612 Market  
Philadelphia Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Royal Glass Wks Corp 50-20 25th Long Is-  
land City NY

**▶ GLAZIERS' POINTS**

Barrett (W L) Co 34 School Bristol Conn  
Black Panther Tool Co 4051 S Iowa Mil-  
waukee 7 Wis  
Fletcher-Terry Co Forestville Conn  
Glaziers' Tool Mfg Co 611 W Adams Chicago  
6 Ill  
Holland Mfg Co Central Av & Bank Balti-  
more Md  
Markwell Mfg Co Inc 200 Hudson New York  
13 NY  
Maze (W H) Co Church & the River Peru  
Ill  
National Sheet Metal Co Peru Ill  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
**RED DEVIL TOOLS 130 COIT IRVINGTON  
NJ**  
Sommer & Maca Glass Machinery Co 3609-08  
S Oakley Av Chicago 9 Ill

**▶ GLAZING COMPOUNDS**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Arco Co 7301 Bessemer Cleveland 4 Ohio  
Armstrong Co 1001 E 103rd Chicago 28 Ill  
**BALTZ (R N) & CO 1009 HARVARD TER  
EVANSTON ILL**  
Biddle Co 608-624 S Main St Louis 2 Mo  
Briggs-Maroney Co Inc 85 Paris Everett 49  
Mass  
**CALBAR PAINT & VARNISH CO 2612 N  
MARTHA PHILADELPHIA 25 PA**  
Con-Cor Co 4550 Main Kansas City Mo  
Dad & Lad Co New Lenox Ill  
Devco & Reynolds Co Inc 787 First Av New  
York 17 NY  
Dicks-Pontius Co 5300 Huberville Rd Dayton  
Ohio  
Fort Pitt Chem Co 26th & Smallman Pitts-  
burgh 22 Pa  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Gibson-Homans Co 2366 Woodhill Rd Cleve-  
land 6 Ohio

Goodrich (E F) Co 500 S Main Akron 18  
Ohio  
Gordon Chemical Co Inc 1100 Hickory Kan-  
sas City 7 Mo  
Horn (A C) Co Tenth & 14th Av Long Is-  
land City 1 NY  
King (E & F) & Co Inc 640 Pleasant Nor-  
wood Mass  
Linden Putty Wks 45 Irving Malden 48 Mass  
Lasting Prods Co Frankintown Rd Balti-  
more 23 Md  
Lowe Bros 436 E Third Dayton 2 Ohio  
**MACKLANBURG-DUNCAN CO 4041 N SAN-  
TA FE OKLAHOMA CITY 1 OKLA**

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OKLAHOMA CITY, OKLA.**

Mar-Kay Mfg Co 2715 S Second St Louis Mo  
McGuffie (W W) & Co 3400 Theurer Ct  
Cleveland 9 Ohio  
Minnesota Mining & Mfg Co 900 Fauquier  
Av St Paul 6 Minn  
**MORTELL (J W) CO 550 N HOBBIE KAN-  
KAKEE ILL**  
Parker (Ira) & Sons Co Oshkosh Wis  
**PECORA PAINT CO INC 4TH & RDG RR  
PHILADELPHIA 40 PA**  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Plastic Prods Co 6473 Georgia Av Detroit 11  
Mich  
Prestitute Engineering Co 3900 Chouteau Av  
St Louis 10 Mo  
Sonneborn (L) Sons Inc Building Prods Div  
404 Fourth Av New York 16 NY  
Steelcase Mfg Co 3418 Gratiot St Louis 3 Mo  
**STERLING PAINT & VARNISH CO 184  
COMMERCIAL MALDEN 48 MASS**  
Stonhard Co 1306 Spring Garden Philadel-  
phia 23 Pa  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
Tremco Mfg Co 8701 Kinsman Rd Cleve-  
land Ohio  
Tucson Laboratories Div Devco & Reynolds  
Co Inc Caniff at Grand Trunk Ry Detroit 11  
Mich  
United Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 Pa  
Webb Prods Co 216 South G San Bernardino  
Cal  
Wisconsin Face Brick & Supply Corp 4485 N  
Green Bay Av Milwaukee Wis

**▶ GLAZING,  
TRANSPARENT PLASTIC**

**ALSYNITE CO OF AMERICA 4654 DE  
SOTO SAN DIEGO 9 CAL**  
Arvey Corp 3462 N Kimball Chicago 18 Ill  
Flex-O-Glass Inc 1100 N Cicero Av Chicago  
51 Ill  
Genco Tools 1830 N Kostner Av Chicago 39  
Ill  
Kerr (Alexander H) & Co Inc 3440 Wilshire  
Blvd Suite 816 Los Angeles 5 Cal  
Plexolite Corp 4225 Jefferson Blvd Los An-  
geles Cal  
**RESOLITE CORP ZELIENOPLE PA**  
Rohm & Haas Co Washington Sq Philadelphia  
5 Pa  
Sol-O-Lite Mfg Co 4301 W North Av Chicago  
11 Ill  
**WRIGHT MFG CO BOX 6567 HOUSTON 5  
TEX**

**▶ GLUE, CASEIN**

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
American Cyanamid Co 30 Rockefeller Plaza  
New York 20 NY  
Bakelite Co Div Union Carbide & Carbon  
Corp 30 E 42nd New York 17 NY  
Borden Co Chemical Div 350 Madison Av  
New York 17 NY  
Consumers Glue Co 1515 Hadley St Louis 6  
Mo  
Davis Plywood Corp 12555 Berea Rd Cleve-  
land 11 Ohio  
Franklin Glue Co 119 W Chestnut Columbus  
4 Ohio  
Hayes Adhesives Co Inc 1770 Canalport Av  
Chicago 16 Ill  
Hayes Adhesives Co 4159 Union Blvd St Louis  
15 Mo  
Hewitt (C B) & Bros Inc 23 Green New  
York 13 NY  
Lacton Glue Mfg Co 611 Broadway New York  
12 NY  
Monite Waterproof Glue Co 1093 Monite Bldg  
North Minneapolis 11 Minn  
**MONSANTO CHEMICAL CO 1700 S SEC-  
OND ST LOUIS 4 MO**

National Casein Sales 601 W 80th Chicago  
20 Ill  
Nicholson & Co 161 First Cambridge 42 Mass  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Perkins Glue Co 652 Cannon Av Dept AB  
Lansdale Pa  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Stay-Tite Prods Co 3107 Detroit Cleveland  
13 Ohio  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**

**▶ GLUE, COLD WATER**

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Armour & Co Fertilizer Wks Div 1355 W  
31st Chicago 9 Ill  
**BARRETT DIV ALLIED CHEMICAL & DYE  
CORP 40 RECTOR ST NEW YORK 6 NY**  
Borden Co Chemical Div 350 Madison Av New  
York 17 NY  
Commercial Paste Co Bottles at Michigam  
Columbus 8 Ohio  
Consumers Glue Co 1515 Hadley St Louis 6  
Mo  
Crescent Prods Co 315 N 14th Terre Haute  
Ind  
Franklin Glue Co 119 W Chestnut Columbus  
4 Ohio  
Fuller (H B) Co 181 W Kellogg Blvd St  
Paul 2 Minn  
Hayes Adhesives Co Inc 1770 S Canalport Av  
Chicago 16 Ill  
Hayes Adhesives Co 4159 Union Blvd St Louis  
15 Mo  
Hewitt (C B) & Bros Inc 23 Green New  
York 13 NY  
Lacton Glue Mfg Co 611 Broadway New  
York 12 NY  
Le Page's Inc 40 Swanson Gloucester 41 Mass  
Monite Waterproof Glue Co 1093 Monite Bldg  
North Minneapolis 11 Minn  
**MONSANTO CHEMICAL CO 1700 S SEC-  
OND ST LOUIS 4 MO**  
National Casein Sales 601 W 80th Chicago 20  
Ill  
National Plywoods Inc 2710 Throop Chicago  
1 Ill  
Perkins Glue Co 652 Cannon Av Dept AB  
Lansdale Pa  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
**RODDIS PLYWOOD CORP MARSHFIELD  
WIS**  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
Thornton (L M) Mfg Co Inc 2825 E 18th  
Kansas City 1 Mo  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**  
Webb Prods Co 216 South G San Bernardino  
Cal

**▶ GLUE, LIQUID**

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Borden Co Chemical Div 350 Madison Av  
New York 17 NY  
Carters Ink Co Kendall Sq Boston Mass  
Coated Abrasives Dept Adhesive Div Armour  
& Co 1355 W 31st Chicago 9 Ill  
Commercial Paste Co Bottles at Michigam  
Columbus 8 Ohio  
Franklin Glue Co 119 W Chestnut Columbus  
4 Ohio  
Fuller (H B) Co 181 W Kellogg Blvd St  
Paul 2 Minn  
Hayes Adhesives Co Inc 1770 S Canalport Av  
Chicago 16 Ill  
Hayes Adhesives Co 4159 Union Blvd St Louis  
15 Mo  
International Glue Co 325 Marginal Boston  
Mass  
Keystone Glue Co Williamsport Pa  
LePage's Inc 40 Swanson Gloucester 41 Mass  
Monite Waterproof Glue Co 1093 Monite  
Bldg Minneapolis 11 Minn  
**MONSANTO CHEMICAL CO PLASTICS  
DIV 100 MONSANTO AV SPRINGFIELD  
2 MASS**  
National Adhesives Div National Starch Prods  
Inc 268 Madison Av New York NY  
National Casein Co 601 W 80th Chicago 20 Ill  
National Plywoods Inc 2710 Throop Chicago  
1 Ill  
Nicholson & Co 161 First Cambridge 42 Mass  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Perkins Glue Co 652 Cannon Av Lansdale Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Rogers Insulating & Glue Co 210 Eastern Av  
Gloucester Mass  
Standard Paste & Glue Co Inc 3620 W 38th  
Chicago 32 Ill  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**  
Webb Prods Co 216 South G San Bernardino  
Cal  
Wellman Prods Co 1444 E 49th Cleveland 3  
Ohio

## ▶ GLUE, RESIN

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill  
 American Cyanamid Co 30 Rockefeller Plaza New York 20 NY  
 Bakelite Co Div Union Carbide & Carbon Corp 20 E 42nd New York 17 NY  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR ST NEW YORK 6 NY**  
 Borden Co Chemical Div 350 Madison Av New York 17 NY  
 Catalin Corp of America 1 Park Av New York 16 NY  
 Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
 DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del  
 Franklin Glue Co 119 W Chestnut Columbus 4 Ohio  
 Fuller (H B) Co 255 Engle St Paul 2 Minn  
 Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
 Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
 Hewitt (C B) & Bros Inc 23 Greene New York 13 NY  
 Lacton Glue Mfg Co 611 Broadway New York 12 NY  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
 Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn  
**MONSANTO CHEMICAL CO WESTERN DIV 911 WESTERN AV SEATTLE 4 WASH**  
 National Casein Sales 601 W 80th Chicago 20 Ill  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Nicholson & Co 161 First Cambridge 42 Mass  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
 Rohm & Haas Co Washington Sq Philadelphia 5 Pa  
 Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 18 NY**  
 Webb Prods Co 216 South G San Bernardino Cal  
 Wellman Prods Co 1411 E 19th Cleveland 3 Ohio

## ▶ GLUE, WATERPROOF

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill  
 American Cyanamid Co 30 Rockefeller Plaza New York 20 NY  
 Coated Abrasives Dept Adhesive Div Armour & Co 1355 W 31st Chicago 9 Ill  
 Bakelite Co Div Union Carbide & Carbon Corp 20 E 42nd New York 17 NY  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR ST NEW YORK 6 NY**  
 Borden Co Chemical Div 350 Madison Av New York 17 NY  
 Consumers Glue Co 1515 Hadley St Louis 6 Mo  
 DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del  
 Franklin Glue Co 119 W Chestnut Columbus 4 Ohio  
 Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
 Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
 Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
 Hewitt (C B) & Bros Inc 23 Green New York 13 NY  
 LePage's Inc 40 Swanson Gloucester 41 Mass  
 Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
**MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY**  
 Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
 National Casein Sales 601 W 80th Chicago 20 Ill  
 Nicholson & Co 161 First Cambridge 42 Mass  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Perkins Glue Co 652 Cannon Av Dept AB Lansdale Pa  
 Plico Div Paisley Prods Inc 718 Washington Av North Minneapolis Minn  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**RODDIS PLYWOOD CORP 115 S PALMETTO MARSHFIELD WIS**

Rohm & Haas Co Washington Sq Philadelphia 5 Pa  
 Sauerstein Cements Co 1045 N Catal Pittsburgh 15 Pa  
 Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill  
 Stay-Tite Prods Co 3107 Detroit Cleveland 13 Ohio  
 Technical Supply Co 1911 University Av Palo Alto Cal  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 E 4TH NEW YORK 18 NY**

## ▶ GRATES, VENTILATORS

Adams Co Box 268 Dubuque Iowa  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Standard Bronze Co 179 W Fifth Bayonne 20 NJ  
 Sweet (A L) Iron Wks 151 Glenwood Av Medina NY

## ▶ GRATINGS

Adams Co Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
**CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Hendrick Mfg Co Dundaff St Carbondale Pa  
 Industrial Iron Wks Box 625 6011 SW Macadam Portland 1 Ore  
 Locke Mfg Co Ohio St Lodi Ohio  
 Logan Co 201 Cabel Louisville 6 Ky  
 Marion Machine Foundry & Supply Co Marion Ind  
 Meyers (Fred L) Mfg Co 1176 Hoover Av Hamilton Ohio  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN**

C-8



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### ▶ GRATINGS, AREAWALL

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO**  
 Belson Mfg Co E River Rd North Aurora Ill  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
 Harris Inc 200 E Long Columbus 15 Ohio  
 Hohmann & Barnard Inc 294 E 33rd New York 16 NY  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Locke Mfg Co Ohio St Lodi Ohio  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill  
**ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN**  
 Swett (A L) Iron Wks 151 Glenwood Av Medina NY

### ▶ GRILLES, FIREPLACE

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**BENNETT-IRELAND INC 23 STATE NORWICH NY**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
**HEATILATOR INC 661 BRIGHTON AV SYRACUSE 5 NY**  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Master Metal Prods Inc 291 Chicago Buffalo 4 NY  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 Silent Glow Oil Burner Corp Hartford Conn  
**SUPERIOR FIREPLACE CO 1709 E 15TH LOS ANGELES 21 CAL**  
 US Register Co 344 E Burnham Battle Creek Mich

### ▶ GRILLES, METAL

Adams Co Box 268 Dubuque Iowa  
 Air Control Prods Inc Glade at Larch Coopersville Mich  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO**  
 Bellkool Co Box 581 Appleton Wis  
 Belson Mfg Co E River Rd North Aurora Ill  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Cornell Iron Wks Inc 36th Av & 13th Long Island City 6 NY  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Ereo Mfg Co 2368 Elston Av Chicago 14 Ill  
 Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
 Harris Inc 200 E Long Columbus 15 Ohio  
 Hart & Cooley Mfg Co 509 E 8th Holland Mich  
**HEATILATOR INC 661 E BRIGHTON SYRACUSE 5 NY**  
 Henrick Mfg Co Dundaff St Carbondale Pa  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky  
 Krauser-Boyd Inc 533 River Rd North Tonnawanda NY  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Newman Bros Inc 660 W 4th Cincinnati 3 Ohio  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
 Standard Bronze Co 179 W Fifth Bayonne 20 NJ  
 Stewart Iron Wks Co Inc 1551 Stewart Block Cincinnati Ohio  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
 Trane Co Third & Cameron LaCrosse Wis

US Register Co 344 E Burnham Battle Creek Mich  
 Wellman Prods Co 1441 E 49th Cleveland 3 Ohio  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**  
 Wilson (J G) Corp 372 Lexington Av New York 17 NY

### ▶ GRILLES, OUTDOOR COOKING

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Atlanta Stove Wks 112 Krog NE Atlanta Ga  
**BENNETT-IRELAND INC 23 STATE NORWICH NY**  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 Hancock Iron Wks 52 W Pike Pontiac Mich  
 Homer Furnace & Foundry Corp Coldwater Mich  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE WIS**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Master Metal Prods Inc 291 Chicago Buffalo 4 NY  
 Silent Glow Oil Burner Corp Hartford Conn  
 Titan Mfg Co Inc 701 Seneca Buffalo 10 NY  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Ave Milwaukee Wis

### ▶ GRILLES, RADIATOR

**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
 Auer Register Co 6600 Clement Av Cleveland 5 Ohio  
 Braun (J G) Co 615 S Paulina Chicago 12 Ill  
 Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
 US Register Co 344 E Burnham Battle Creek Mich  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ GRILLES, SCREEN DOOR

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS OHIO**  
**COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA**  
 Compo Miracle Prods Co 15521 W Eleven Mile Rd Berkeley Mich  
 Decatur Iron & Steel Co Second St W Decatur Ala  
 Hawkins Iron Co Box 670 Birmingham 4 Ala  
 Hutchinson Co Box 11 Cedar Grove Sta Shreveport La  
 Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH**  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

Metal Crafters East Av at 18th NE Cedar Rapids Iowa  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 National Guard Prods Inc 757 Madison Av Memphis 7 Tenn  
 Ornamental Metal Wks Paducah Ky  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Protex Weatherstrip Mfg Co 4508 S Western Chicago Ill  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
 Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
**SAMCO (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY**  
 Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

### ▶ GRILLES, WINDOW

Adams Co Box 268 Dubuque Iowa  
 Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis  
**CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH**  
 Logan Co 201 Cabel Louisville 6 Ky  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
 Metal Crafters East Av at 18th NE Cedar Rapids Iowa  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 National Guard Prods Inc 757 Madison Av Memphis Tenn  
 Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio  
 Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

### ▶ GRINDERS, BENCH & FLOOR

Albertson & Co Inc Sioux City 3 Iowa  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
**BOICE CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
**BRADFORD MACHINE TOOL CO 656-671 EVANS CINCINNATI OHIO**  
 Bridgeport Safety Emery Wheel Co 550 Main Stamford Conn  
 Champion Blower & Forge Co Harrisburg Av & Charlotte Lancaster Pa  
 Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio  
 Clizbe Bros Mfg Co Plymouth Ind  
 Diehl Mfg Co 1185 Finnerde Av Somerville NJ  
 Dumore Co 1300 17th Racine Wis  
 General Hdwe Co 3618 W Pierce Milwaukee Wis  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Lima Electric Motor Co 4500 Findlay Rd Lima Ohio  
 Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
 Millers Falls Co Wells & Devon Greenfield Mass  
**MILWAUKEE ELECTRIC TOOL CORP 5360 W STATE MILWAUKEE 8 WIS**  
 Newman Machine Co Inc 507 Jackson Greensboro NC  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 629 E VIENNA MILWAUKEE 1 WIS**  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
 Sved Way Mfg Co 1834 S 52nd Av Cicero 50 Ill  
 Standard Electrical Tool Co Cincinnati 4 Ohio  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Thor Power Tool Co State & Claim Aurora Ill  
 US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio  
 Vonnegut Moulder Corp Madison Av at Caven St Indianapolis Ind  
 Walker-Turner Div Kearney Trecker Corp 639 South Av Plainfield NJ  
 Wisconsin Abrasive Mfg Co 1300 E Park Pl Milwaukee 11 Wis  
 Wisconsin Mfg Co 1301 S Third Minneapolis Minn



## FITS-ALL Screen Door GRILLES

Fully adjustable  
for all screen  
doors and  
combination doors,  
both wood & metal

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OKLAHOMA CITY, OKLA.

# Professional Power Tools Pay-Off On Commercial Projects

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**SYNTRON**  
**PORTABLE  
POWER  
TOOLS**

**Save Time And Cut Costs On  
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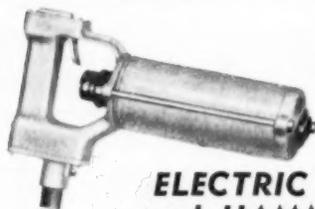
Quick, easy cutting of huge drainage tile speeds completion of flood-control project.

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Portable, heavy duty—plenty of reserve cutting power. For fast, easy cutting of wood, concrete block, plasterboard, etc. No bucking or jerking in cut.



## GASOLINE HAMMER ROCK DRILLS & PAVING BREAKERS



Completely self-contained. Drill—dig—cut—tamp—without using an air compressor or other accessories. Drill bit rotates automatically.

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Powerful, electromagnetic—drill, cut or chip, concrete and masonry four times faster than by hand. 3600 blows per minute. Bit rotates automatically for drilling.



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Chicago Wheel & Mfg Co 1101 W Monroe Chicago Ill  
Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio  
Diehl Mfg Co 1185 FINDERNE AV Somerville NJ  
**DREMEL MFG CO 2420 18TH RACINE WIS**  
Duro Metal Prods 2649 N Kildare Chicago Ill  
General Hdwe Co 3618 W Pierce Milwaukee Wis  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
Millers Falls Co Wells & Devon Greenfield Mass  
**MILWAUKEE ELECTRIC TOOL CORP 5360 W STATE MILWAUKEE 8 WIS**  
Newman Machine Co Inc 507 Jackson Greensboro NC  
Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill  
Byerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
Speedway Mfg Co 1834 S 52nd Cicero Ill  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**  
Thor Power Tool Co State & Claim Aurora Ill  
Toolkraft Corp Plainfield St Springfield 1 Mass  
US Electric Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio  
Wisota Mfg Co 1301 S Third Minneapolis Minn

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Ekstrom Carlson & Co 1417 Railroad Av Rockford Ill  
**GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO**  
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
Mayes Bros Tool Mfg Co Port Austin Mich  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa

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Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
**ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN**  
Sharon Steel Co Sharon Pa  
**UNITED STEEL FABRICATORS INC HIGH & GASCHE WOOSTER OHIO**

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Steel & Wire Prods Co 217 S Central Av Baltimore 2 Md

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Boice Crane Co 930 W Central Av Toledo 6 Ohio  
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio  
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
Logan Co 201 Cabel Louisville 6 Ky  
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH PA**

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Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
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International Steel Co Evansville 7 Ind  
Logan Co 201 Cabel Louisville 6 Ky  
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Swett (A L) Iron Wks 151 Glenwood Av Medina NY

Western Foundry Co 2400 SW Water Portland 1 Ore

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 Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
**CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Clay Equipment Corp Cedar Rapids Iowa  
 Clearview Louver Window Co 2625 Elm Dallas 1 Tex  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
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 Hawkins Iron Co Box 670 Birmingham Ala  
 Kentucky Metal Prods Co 3106 Preston St Louisville 4 Ky  
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 Metal Crafters East Av at 18th NE Cedar Rapids Iowa  
 Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
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**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
 Slaymaker Lock Co 115 West End Av Lancaster Pa  
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 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
 Standard Bronze Co 179 W Fifth Bayonne 20 NJ  
 Stewart Iron Wks Co Inc Box 1039 Cincinnati 1 Ohio  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

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 Champion Blower & Forge Co Harrisburg Av & Charlotte Lancaster Pa  
 Chicago Wheel & Mfg Co 1101 W Monroe Chicago 7 Ill  
 Foley Mfg Co 3300 NE Fifth Minneapolis Minn  
 General Hdwe Co 3618 W Pierce Milwaukee 15 Wis  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Maelkin Co 2914 Wildwood Rd Jackson Mich  
 Mid-West Abrasive Co 500 S Washington Owosso Mich  
 Norton Co 1 New Bond Worcester 6 Mass  
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 Wisconsin Abrasive Mfg Co 1300 E Park Pl Milwaukee 11 Wis

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 Biddle Co 608-624 S Main St Louis 2 Mo  
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 Ceresit Waterproofing Corp 3227 S Shields Av Chicago 16 Ill  
 Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill  
 Devoc & Reynolds Co Inc 787 First Av New York 17 NY  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Felton Sibley & Co Inc 136 N Fourth Philadelphia 6 Pa  
 Ford Roofing Prods Co 188 W Randolph Chicago 2 Ill  
 Foy Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio  
 Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill  
**GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO**  
 Horn (A C) Co Inc 10th at 11th Av Long Island City 1 NY  
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 Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Stewart-Warner Corp 1828 Diversey Pkwy Chicago 14 Ill  
 Tammis Industries Inc 228 N LaSalle Chicago 1 Ill  
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 United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio  
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 Arno Steel Corp 703 Curtis Middletown Ohio  
 Badger Corrugating Co 1891-39 West Av S LaCrosse Wis  
**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
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 Cincinnati Sheet Metal & Roofing Co Cincinnati 2 Ohio  
 Giehner Inc 1900 Kendall NE Washington 2 DC  
**HARRISON STEEL CABINET CO 4718 W FIFTH AV CHICAGO 44 ILL**  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
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 Krauser-Boyd Inc 553 River Rd North Tonawanda NY  
 LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
 Newport Steel Corp Ninth & Lowell Newport Ky  
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 Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
 Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
 Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
 Reeves Steel & Mfg Co Dover Ohio  
**REYNOLDS METALS CO BLDG PRODS DIV 2001 S NINTH LOUISVILLE 1 KY**  
**ST PAUL CORRUGATING CO SOUTH END WABASH BRIDGE ST PAUL 1 MINN**  
 Sioux Steel Co Sioux Falls SD  
 Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
 Wheeling Corrugating Co Wheeling W Va  
 Willis Steel Corp Box 149 Galesburg Ill

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**RUSSELL REINFORCED PLASTICS CORP 8 S 12TH LINDENHURST LI NY**

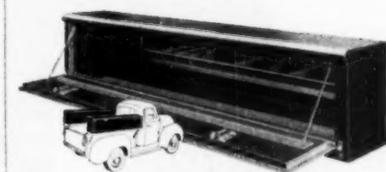
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Michigan Av Chicago 4 Ill  
Arrow Tank Co Inc 16 Barnett Buffalo 15  
NY  
Dolbeer & Carson Lumber Co Merchants &  
Exchange Bldg San Francisco Cal  
Duncan Wood Gutter Co 818 Securities Bldg  
Seattle 1 Wash  
Elliott Hay Mill Co 600 W Spokane Seattle 4  
Wash  
Fordyce-Crossett Lumber Co Fordyce Ark  
Gustina Bros Lumber Co Box 989 Eugene  
Ore  
Hammond Lumber Co 417 Montgomery San  
Francisco Cal  
Holmes-Eureka Lumber Co Financial Center  
Bldg San Francisco Cal  
Long Fir Gutter Co Stanton Av Cadiz Ohio  
Maak Seattle Lumber Co 3935 University Way  
Seattle 5 Wash  
Mutual Fir Column Co Taylor Way & Lin-  
coln Av Tacoma Wash  
Union Lumber Co 620 Market Bldg San  
Francisco 4 Cal  
Washington Mfg Co Box 1544 Tacoma 1 Wash  
WEYERHAEUSER SALES CO 1ST NATIONAL  
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Willamette Valley Lumber Co Dallas Ore

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CELOTEX CORP 120 S LASALLE CHICAGO  
3 ILL  
NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY  
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ADAMS CHICAGO 6 ILL

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Billings & Spencer Co Hartford Conn  
BOSTITCH INC 1101 MECHANIC WEST-  
ERLY RI  
Burgess Fastening Co 1220 W 9th Cleveland  
13 Ohio  
Capewell Mfg Co 60 Governor Hartford 2  
Conn  
Champion-DeArment Tool Co Meadville Pa  
Cheney (Henry) Hammer Corp Little Falls  
NY  
David-Maydole Tool Corp Hurlburt & For-  
sythe Norwich NY  
Duro Metal Prods Co 2649 N Kildare Av  
Chicago 39 Ill

Estwing Mfg Co Rockford Ill  
Fairmount Tool & Forging Co 10611 Quincy  
Av Cleveland Ohio  
FASTENER CORP 860 W FLETCHER CHI-  
CAGO 14 ILL  
GOLDBLATT TOOL CO 1910 WALNUT  
KANSAS CITY 8 MO  
Graham (John H) & Co Inc 105 Duane New  
York 8 NY  
Griffith Tool Wks 2nd & Duncannon Av  
Philadelphia 20 Pa  
Heller Bros Co Heller Dr Newcomerstown  
Ohio  
Hotchkiss (E H) Co 10 Hoyt Norwalk Conn  
Hubbard & Co 6301 Butler Pittsburgh 1 Pa  
Ideal Industries Inc 1335 Park Av Sycamore  
Ill  
Leetonia Tool Co 142 Main Leetonia Ohio  
Marion Tool Corp Marion Ind  
Markwell Mfg Co Inc 200 Hudson New York  
12 NY  
Mephisto Tool Co Inc Box 16 Hudson NY  
National Lead Co 111 Broadway New York 6  
NY  
Owatonna Tool Co 341 Cedar Owatonna Minn  
Ox-Wall Tool Co 928 Broadway New York  
10 NY  
Peck, Stow & Wilcox Co Southington Conn  
Phoenix Hlwe Mfg Co Buffalo NY  
Plumb (Fayette R) Inc Tacony & Thompson  
Philadelphia Pa  
Selek (Walter E) & Co 225 W Hubbard Chi-  
cago 10 Ill  
STANLEY WKS 111 ELM NEW BRITAIN  
CONN  
True Temper Corp 1623 Euclid Av Cleveland  
15 Ohio  
Vaughan & Bushnell Mfg Co 135 S LaSalle  
Chicago Ill  
Vlehek Tool Co 3001 E 87th Cleveland 4 Ohio  
Warren Tool Corp Box 791 Warren Ohio

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Ingersoll-Rand Co 11 Broadway New York  
4 NY  
Worthington Corp S Second St Plainfield NJ

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BLACK & DECKER MFG CO 600 E PENN-  
SYLVANIA AV TOWSON 4 MD  
Chicago Pneumatic Tool Co 6 E 44th New  
York NY  
GOLDBLATT TOOL CO 1910 WALNUT  
KANSAS CITY 8 MO  
HOMELITE CORP 67 RIVERDALE AV PORT  
CHESTER NY  
Millers Falls Co Wells & Devon Greenfield  
Mass  
MILWAUKEE ELECTRIC TOOL CORP 5360  
W STATE MILWAUKEE 4 WIS  
SKIL CORP 5033 ELSTON AV CHICAGO 30  
ILL  
SYNTRON CO 618 LEXINGTON AV  
HOMER CITY PA  
TEMPO PRODS CO 2075 E 65TH CLEVE-  
LAND 3 OHIO  
Thor Power Tool Co State & Claim Aurora  
Ill  
Wodack Electric Tool Corp 4627 W Huron  
Chicago 44 Ill

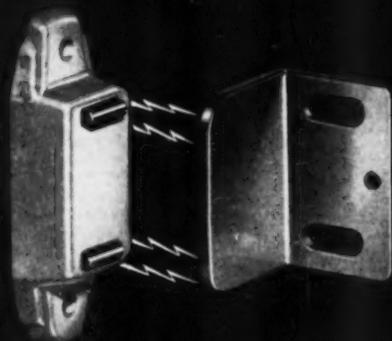
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Berger Furnace Mfg Co 5920 Centre Av  
Pittsburgh 6 Pa  
Columbia Metal Box Co 260 E 143rd New York  
51 NY  
Ketcham (G M) Mfg Corp 70-70-80th Glen-  
dale Brooklyn 27 LI NY  
National Metal-Art Mfg Co 1900 8th Av  
Brooklyn 15 NY  
Standard Building Prods Co 621 McDonald  
Av Brooklyn 18 NY  
Standard Steel Cabinet Co 3701 Milwaukee  
Av Chicago 41 Ill

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Bruner-Ivory Handle Co Hope Ark  
Buckeye Handle Wks Co Cortland Ohio  
Cheeseborough (Thos E) Freeport Mich  
Chicago Wood & Plastic Prods 4201 W Ir-  
ving Pk Chicago 41 Ill  
Cooke (R F) Mfg Co Orange Mass  
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build! Use  
with any style  
of knob or  
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 Plumb (Fayette R) Inc Tacony & Thompson Philadelphia Pa  
 Proto Tool Co 2209 Sante Fe Los Angeles 54 Cal  
 Stiles (H A) Co 160 N Washington Boston 14 Mass  
 Swan Handle Corp 53 Murray New York 7 NY  
 True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 Union Fork & Hoe Co Columbus Ohio

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Butler Mfg Co 7400 E 13th Kansas City 26 Mo  
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 STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO  
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 LUCKE (WILLIAM B) INC 514 RAILROAD AV WILMETTE ILL  
 Titewall Hanger Co 1458 W 87th Chicago Ill

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 CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
 CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
 Hopson (W C) Co 216-20 Grandville Av Grand Rapids 2 Mich  
 INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS  
 Mid States Steel & Wire Co Crawfordsville Ind  
 Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa  
 Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
 REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY  
 United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
 Wheeling Corrugating Co Wheeling W Va

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 JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
 MIRACLE ADHESIVES CORP 214 E 53RD NEW YORK 22 NY  
 MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL  
 UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ HANGERS, JOIST & LUMBER

Adams Co Dubuque Iowa  
 Allen Steel Prods Co 2941 E Ten-Mile Rd Hazel Park Mich  
 Cleveland Steel Specialty Co Inc 3765 E 91st Cleveland 5 Ohio  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 Conover Steel & Wire Co 621 E 132nd New York 54 NY  
 Copeo Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Duplex Hanger Co E 53rd & Lakeside Av Cleveland Ohio  
 Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich  
 Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill  
 Hohman & Barnard Inc 204 E 33rd New York 16 NY  
 Hooking Paper & Supply Drawer 43 Wilmette Ill  
 Ideal Hanger Co 1292 E 53rd Cleveland 14 Ohio  
 Lanchro Mfg Co Poughkeepsie NY

TIMBER ENGINEERING CO 1319 18TH NW WASHINGTON 7 DC  
 Weatherguard Service Inc 564 Jackson Av New York 55 NY

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Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
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 Boswick Steel Lath Co 101 Heaton Av Niles Ohio  
 CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
 Goldsmith Metal Lath Co Cincinnati Ohio  
 INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS  
 PENN METAL CO INC 205 E 42ND NEW YORK 17 NY  
 TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO  
 UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ HANGERS, PIPE & CONDUIT

Acme Pipe Strap Co 944 Harper Detroit 11 Mich  
 Carpenter & Patterson Inc 1190 Bennington East Boston 28 Mass  
 Copperwell Steel Co 322 Frick Bldg Pittsburgh Pa  
 Diamond Expansion Bolt Co Garwood NJ  
 General Fittings Co 123 Georgia Av Providence 5 RI  
 Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio  
 Grey Iron Casting Co Mt Joy Pa  
 Malleable Iron Fittings Co Branford Conn  
 Modern Iron Wks 540 S 5th Quincy Ill  
 Paine Co Fullerton & Westgate Rd Addison Ill  
 Parker (Charles) Co 50 Hanover Meriden Conn  
 Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass  
 Signode Steel Strapping Co 2636 N Western Av Chicago 47 Ill  
 Unistrut Prods Co 1013 W Washington Blvd Chicago 7 Ill  
 Victor Specialties Rochelle NY  
 YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

### ▶ HARDBOARD, ASPHALT

Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Camp Co Inc 6958 S State Chicago 21 Ill  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Serviced Prods Corp 6051 W 65th Chicago 38 Ill

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 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 BUTLER (B B) MFG CO INC 3146 RANDOLPH BELLWOOD ILL  
 CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
 Chapeo Sales Corvallis Ore  
 Consolidated Water Power & Paper Co Abingdam Div Wisconsin Rapids Wis  
 CURTIS COS INC 1200 S SECOND AV CLINTON IOWA  
 DANT & RUSSELL 711 EQUITABLE BLDG PORTLAND ORE  
 Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
 Erdle Perforating Co Inc 175 York Rochester NY  
 Fir-Tex Insulating Board Co Porter Bldg Portland Ore  
 FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
 Forest Fiber Prods Co Box 68 AB Forest Grove Ore  
 INSULITE DIV MINNESOTA & ONTARIO PAPER CO 300 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN  
 JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
 KEASBEY & MATTISON CO BUTLER AV AMBLER PA  
 LONG BELL LUMBER CO COMMERCE & DOUGLAS LONGVIEW WASH  
 Lustrewood Process Co Emmett St Bristol Conn  
 M & S Inc 15 E Third Cincinnati 2 Ohio  
 MARSH WALL PRODS INC 268 MAIN AVE OHLER OHIO  
 MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL  
 Meadows (W R) Inc 2 Kimball Elgin Ill

Midwest Plywood Co 1010 1/2 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 4 Wis  
 NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
 OREGON LUMBER CO BAKER ORE  
 Pacific Veneer & Plywood Corp Bellingham Wash  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Plaswood Corp 18263 Hartwell Detroit 35 Mich  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Protective Papers Inc Union Ill  
 Rock Island Millwork Co Rock Island Ill  
 RODDIS PLYWOOD CORP MARSHFIELD WIS  
 UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
 UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY  
 Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
 WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

### ▶ HARDBOARD, EMBOSSED

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
 DANT & RUSSELL 711 EQUITABLE BLDG PORTLAND ORE  
 MASONITE CORP 111 W WASHINGTON CHICAGO ILL  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
 UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY

### ▶ HARDBOARD, PACKAGED, SMALL SIZES

UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
 UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY

### ▶ HARDWARE, AWNING

Astrup Co 2937 W 25th Cleveland 13 Ohio  
 Awning Hdwe Co Baltimore 12 Md  
 Coyle (H B) Co Div of Bauer Bros Inc 1424 N 31st Philadelphia 21 Pa  
 Goss (J C) Co 36 E Woodbridge Detroit 26 Mich  
 Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio  
 PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
 SARGENT & CO 45 WATER NEW HAVEN 9 CONN

### ▶ HARDWARE, AWNING WINDOW

Coyle (H B) Co Div of Bauer Bros Inc 1424 N 31st Philadelphia 21 Pa  
 Fanner Mfg Co Brookside Park Cleveland 9 Ohio  
 LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA  
 Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 STERLING HDWE MFG CO 2345 W NELSON CHICAGO 18 ILL  
 Super Vent Co 905 W North Av Chicago 6 Ill  
 Universal Window Co 950 Parker Berkeley 10 Cal  
 Washburn Co 28 Union Worcester 8 Mass  
 Whitney (Vincent) Co Box 335 Sausalito Cal

### ▶ HARDWARE, BARN

ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 HANGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Larson (Clas O) Co Ave "G" & C&NW Ry Sterling Ill  
 Lawrence Bros Sterling Ill

Louden Machinery Co 261 S Court Fairfield Iowa  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
 Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
**NATIONAL MFG CO STERLING ILL**  
 Ney Mfg Co 948 High Av SW Canton 4 Ohio  
 Nissalite Co of America 115-119 W 3rd Davenport Iowa  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Starline Inc 300 W Front Harvard Ill  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA**

### ▶ HARDWARE, CABINET

Acorn Mfg Co Mansfield Mass  
**ADAMS-RITE MFG CO 340 W CHEVY CHASE DR GLENDALE 4 CAL**  
 Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
 American Brass Goods Co Grand Rapids 2 Mich  
 American Cabinet Hdwe Corp 416 S Main Rockford Ill  
 Austin & Eddy Inc Box 1504 Boston 4 Mass  
 Casement Hdwe Co 612 Michigan Av Chicago 11 Ill  
 Champion Hdwe Co Geneva Ohio  
 Cincop Corp 22nd & Cole St Louis 6 Mo  
 Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio  
 Clinton Lock Co Clinton Iowa  
 Colonial Bronze Co Winsted Rd Torrington Conn  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 Corbin Cabinet Lock Div American Hdwe Corp Park & Orchard New Britain Conn  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Engineered Prods Co 129 Smith Box 118 Flint 4 Mich  
 Extension Drawer Support Co 3727 Broadway Pl Los Angeles 7 Cal  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
**GARDEN CITY PLATING & MFG CO 1750 N ASHLAND AV CHICAGO 22 ILL**  
 Geneco Tools 1830 N Kostner Av Chicago 39 Ill  
 Grand Rapids Hdwe Co 560 11th NW Grand Rapids Mich  
 Grant Pulley & Hdwe Corp 31-63 Whitestone Flushing 11 NY  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Harvard Lock Co Reading Pa  
 Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal  
 Heller (W C) & Co 1050 Bryant Montpelier Ohio  
 Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn  
 Illinois Lock Co 822 S Ada Chicago 7 Ill  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 9 CONN**  
 Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Lawrence Bros Sterling Ill  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
 Modern Plastics Co 4641 Pacific Blvd Los Angeles 58 Cal  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
**NATIONAL LOCK CO 1902 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**  
 Nordahl Co 180 W Alameda Burbank Cal  
 Norwalk Lock Co Div Segal Lock & Hdwe Co 395 Broadway New York 13 NY  
 Old Guilford Forge Guilford Conn  
 Olympic Hdwe & Paints 4125 W Olympic Blvd Los Angeles Cal  
 Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal  
 Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal  
 Petko Industries 1107 E 8th Los Angeles 21 Cal  
 Phoenix Lock Co Newark 7 NJ  
 Reese Padlock Co 126 Sherman Lancaster Pa  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
 Safe Padlock & Hdwe Co Lancaster Pa  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich

**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Seleck (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
 Sharon Hdwe Mfg Co Sharon Pa  
 Shelby Metal Prods Co Shelby Ohio  
 Shelby Spring Hinge Co Shelby Ohio  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
**SOSS MFG CO 21777 HOOVER RD BOX 35 HARPER STA DETROIT 13 MICH**  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Star Metal Prods Inc 370 Butler Brooklyn NY  
**STERLING HDWE MFG CO CHICAGO 18 ILL**  
 Technical Glass Co Inc 2050 E 48th Los Angeles 11 Cal  
**TRIANGLE MFG CO 406 DIVISION OSHKOSH WIS**  
 Vimear Sales Co Box 2187 S Annex Sta Van Nuys Cal  
**WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH**  
 Weber-Knapp Co Jamestown NY  
**WESTERN LOCK MFG CO 211 N MADISON AV LOS ANGELES 4 CAL**  
**YALE & TOWNE MFG CO STAMFORD CONN**

### ▶ HARDWARE, CASEMENT WINDOW

American Cabinet Hdwe Corp 416 S Main Rockford Ill  
**ARROW LOCK CORP 762 WYTHE AV BROOKLYN 11 NY**  
 Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill  
 Champion Hdwe Co Geneva O  
**CORBIN (P&F) CORP AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
 Croft Steel Prods Inc 10 Market Jamestown NY  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
**GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA**  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 9 CONN**  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Lawrence Bros Sterling Ill  
**LOCKWOOD HDWE MFG CO FITCHBURG MASS**  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal  
 Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal  
 Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal  
 Penn Hdwe Co Spruce St Reading Pa  
 Rixson (Oscar C) Co 4450 Carroll Av Chicago 25 Ill  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
 Safe Padlock & Hdwe Co Lancaster Pa  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Shelby Spring Hinge Co Shelby Ohio  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
**STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL**  
 Universal Window Co 950 Parker Berkeley 10 Cal  
 Whitney (Vincent) Co Box 335 Sausalito Cal  
 Wright Prods Co St Paul Park Minn  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

### ▶ HARDWARE, CLOTHES CLOSET

Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
 Amerline Inc 1753 Honore Chicago 22 Ill  
 Arrow Lock Corp 762 Wythe Av Brooklyn 11 NY  
 Atkinson Mfg Co Ludington Mich  
 Autovye Co Oakville Conn  
 Champion Hdwe Co Geneva Ohio

**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
 Duncan Shaw Corp 33 W 42nd New York 18 NY  
 Fawcett Mfg Div Falls Stamp & Welding Co 1703 Front Cuyahoga Falls Ohio  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill  
**GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA**  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Handy Things Mfg Co Ludington Mich  
 Illinois Porcelain Enamel Co 420 S Winchester Av Chicago 12 Ill  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 9 CONN**  
 Judd (H L) Co 87 Chambers New York 7 NY  
 KDK Upper Forging Co 2645 N Keeler Chicago 18 Ill  
 Ken-Ro-Bil Co Van Buren Ohio  
 Knape & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Kraus (Walter S) Co 48-02 43rd Woodside NY  
 Larson (Charles O) Co Ave "G" & C&NW RY Sterling Ill  
 Lawrence Bros Sterling Ill  
**LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH**  
 Marvel Rack Mfg Co 24 N 1st Minneapolis 1 Minn  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
 Modern Plastic Co 4641 Pacific Blvd Los Angeles 58 Cal  
 Nordahl Co 180 W Alameda Burbank Cal  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal  
 Penn Hdwe Co Spruce St Reading Pa  
 Reese Padlock Co 126 Sherman Lancaster Pa  
 Rep-Loc Prods Co 16110 Brookpark Rd Cleveland Ohio  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Shelby Spring Hinge Co Shelby Ohio  
 Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 Southern Galvanizing Co Bush St & B&ORR Baltimore 30 Md  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Universal Steel Equipment Corp 32-35 47th Av New York 1 NY  
 Vimear Sales Co Box 2187 South Annex Sta Van Nuys Cal  
 Washburn Co 28 Union Worcester 8 Mass  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

### ▶ HARDWARE, DOOR

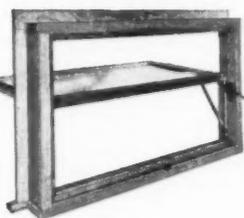
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
 American Sliding Door Hdwe Corp 2084 First Av New York 29 NY  
 Champion Hdwe Co Geneva Ohio  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Ero Mfg Co 2368 Elston Av Chicago 14 Ill  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Glide-Away Door Div Stamping Prods & Mfg Co 6500 Mack Av 1st Unit 7 Mich  
**GRANT PULLEY & HDWE CORP 31-63 WHITESTONE FLUSHING LI NY**  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 9 CONN**  
**KWIKSET SALES & SERVICE CO 516 E SANTA ANA ANAHEIM CAL**  
**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
**NATIONAL MFG CO STERLING ILL**  
 Nidor Mfg Corp 7326 Fulton Av North Hollywood Cal  
 Old Guilford Forge Guilford Conn  
 Olympic Hdwe & Paints 4125 W Olympic Blvd Los Angeles Cal  
 Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal  
 Parker (S) Hdwe Mfg Corp 27 Ludlow St New York 2 NY  
 Peerless Mfg Co Inc 2100 N 11th Reading Pa  
 Penn Hdwe Co Spruce St Reading Pa

**both sides of windows can be washed from the inside with the new Grand Rapids Ven-Trol-Gear**



The popular new Grand Rapids "Ven-Trol-Gear" opening mechanism for window ventilating panels in the modern multi-panel window systems offers many exclusive advantages that appeal to owners of residential, monumental and commercial buildings. It swings ventilating panels outward and downward to any degree of opening desired to assure full view as well as the most efficient ventilation regardless of weather . . . opens and closes windows smoothly, quietly and easily . . . and permits easy washing of both sides of the window panes from the inside. See other important features listed below.

**VEN-TROL-GEAR**  
VENT PANEL ACTUATOR  
FOR PANEL WINDOW SYSTEMS



Ventilating Panels open outward to a full 90°. Ven-Trol-Gears are available in 5 sizes handling a minimum of 15 openings.

## MOST PRACTICAL AND EFFICIENT OPENING MECHANISM AVAILABLE TODAY

### CHECK THESE FEATURES:

1. Fingertip gear-operated control — nylon rollers assure smooth, noiseless operation.
2. Operating mechanism fully concealed including hinging mechanism.
3. Handle grip location adjustable down 15° from horizontal position.
4. Positive locking mechanism fully concealed except for operating lever.
5. Designed for use on wood or metal windows
6. Can be used with any type of glazing up to 1" including double glazing.
7. Can be used with any wall thickness or trim as mechanism is integral part of window.
8. Quick, easy installation —exposed controls finished in antique bronze enamel with special finishes available on request.

Make your A. B. C. for 1954... "Always be Competitive"

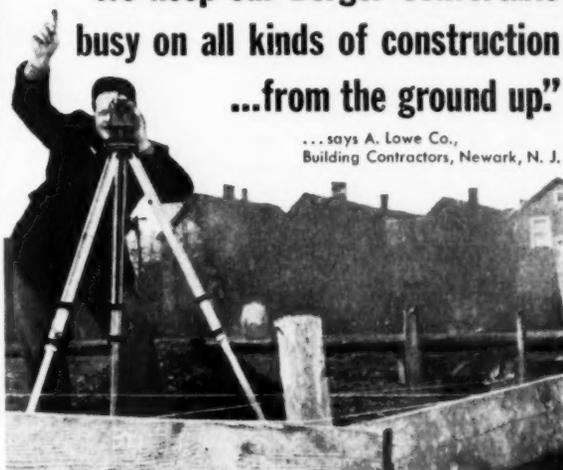
WRITE FOR ILLUSTRATED LITERATURE TODAY!

**GRAND RAPIDS HARDWARE CO.**  
GRAND RAPIDS 2, MICHIGAN  
NEW YORK • LOS ANGELES • DANBURY, CONN.

APRIL 1954

**"We keep our Berger Convertible busy on all kinds of construction ...from the ground up?"**

... says A. Lowe Co.,  
Building Contractors, Newark, N. J.



"One day you'll see it at work laying out a new factory site, marking batter boards, checking elevations for excavating and grading. Or it's measuring elevation of concrete piers for the steel columns of an office building, setting lintels, aligning and plumbing structural steel. On another job, we'll have it picking up elevations for finished floors, measuring hung ceiling heights, setting door bucks, and checking all other stages of construction."

That's because the Berger is built for builders—designed to be consistently accurate, simple to set up for quick readings, easy to level up. The image you see through the 12", 24 power telescope with its coated optics is *right side up*. Rigid and sturdy —of brass and bronze construction—it takes the bumps in the field and stays on the job without time lost for repair.

### Before buying a Convertible... Compare!

This table compares the Berger Convertible with the other two leading instruments—shows why so many more builders buy BERGER.

	Berger Convertible	Convertible No. 1*	Convertible No. 2**
TELESCOPE	24-26 power	less	less
	34 mm. clear aperture	30 mm. clear aperture	33 mm. clear aperture
	bronze vial sensitivity 60 sec.	fabricated vial sensitivity 90 sec.	zinc die cast vial sensitivity 120 sec.
OPTICS	Coated	Coated	Coated
FOOT PLATE	Brass	Aluminum	Brass
	Trivet integral	Trivet integral	Trivet points separate
HORIZONTAL CIRCLE	Forged Brass	Aluminum	Brass
YOKE FRAME	Bronze	Aluminum	Zinc
TANGENT PIECE	Brass	Aluminum	Integral with clamp
TELESCOPE CLAMP	Brass	Aluminum	Zinc
PLATE LEVEL	Yes	No	No
CASE	Mahogany transit case	Level type box	Level type box
STRAP	Padded leather handle	Plain leather <small>*Relais higher than Berger</small>	Plain leather <small>**Relais lower than Berger</small>

Quick delivery—thanks to enlarged capacity

Price \$219, complete with mahogany transit case, tripod, plumb bob, sun shade and instruction manual.

Write for literature on this and 12" Dumpy Level, Service Transit Level. And ask about our Engineers' Transits and Levels.

C. L. Berger & Sons, Inc., 37 Williams St., Boston 19, Mass.

THE BEST IN SIGHT IS

**BERGER**  
ENGINEERING AND SURVEYING INSTRUMENTS... SINCE 1871

Safe Padlock & Hdwe Co Second & Crystal  
Lancaster Pa  
Sazer-Barrows Div Yale & Towne Mfg Co  
Berrien Springs Mich  
**SARGENT & CO 45 WATER ST NEW HAVEN  
8 CONN**  
Skillman Hdwe Co Edgewood Av Trenton 4  
NJ  
Slaymaker Lock Co 115 S West End Av Lan-  
caster Pa  
Standard Bronze Co 179 W 5th Bayonne 20  
NJ  
Weis (Henry) Mfg Co Inc 941 Oak Elkhart  
Ind  
**WESTERN LOCK MFG CO 211 N MADISON  
AV LOS ANGELES 4 CAL**  
**WICKWIRE SPENCER STEEL DIV COLO-  
RADO FUEL & IRON CORP 575 MADIS-  
ON AV NEW YORK 19 NY**

### ▶ HARDWARE, DOOR ACCESSORY

Acorn Mfg Co Mansfield Mass  
**ADAMS RITE MFG CO 540 W CHEVY  
CHASE GLENDALE 4 CAL**  
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los  
Angeles 32 Cal  
**ALLITH-PROUTY INC 819 N BOWMAN AV  
DANVILLE ILL**  
**ALLMETAL WEATHERSTRIP CO 2241 N  
KNOX AV CHICAGO 7 ILL**  
American Cabinet Hdwe Corp 416 N Main  
Rockford Ill  
**ARROW LOCK CORP 762 WYTHE AV  
BROOKLYN 11 NY**  
Baldwin Mfg Corp 1290 Central Av Hillside  
NJ  
Busch (A G) Co Inc 2632 N Central Av Chi-  
cago 39 Ill  
Champion Hdwe Co Geneva Ohio  
Chesler (J & Sons) 43-49 Varick Av Brook-  
lyn 27 NY  
Cineo Corp 22nd & Cole St Louis 6 Mo  
Clinton Lock Co Clinton Iowa  
Columbus Brass Mfg Co 620 Dublin Av Co-  
lumbus 16 Ohio  
**CORBIN (P&F) DIV AMERICAN HDWE  
CORP 67 PARK AV NEW BRITAIN  
CONN**  
Decorite Inc 2116 Peachtree Rd Atlanta Ga  
**DEXTER LOCK CO SUBSID NATIONAL  
BRASS CO 1609 MADISON AV SE  
GRAND RAPIDS 2 MICH**  
Dorbin Metal Strip Mfg Co 2408 S Cicero Av  
Chicago 50 Ill  
Engineered Prods Co 129 Smith Box 118  
Flint 4 Mich  
Ereo Mfg Co 2368 N Elston Av Chicago 14  
Ill  
Fiske (J W) Iron Wks 78 Park Pl New  
York 7 NY  
Fiwale Equipment Mfg Co 105 Reade New  
York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING  
ILL**  
Gensco Tools 1830 N Kostner Av Chicago 39  
Ill  
Grand Rapids Wire Prods Co 501 Front Av  
NW Grand Rapids 4 Mich  
Grand Specialties Co 3101 W Grand Chicago  
22 Ill  
**GRANT PULLEY & HDWE CORP 31-63  
WHITESTONE PKWY FLUSHING LI NY**  
Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139  
VICTOR ST LOUIS 4 MO**  
Hollymade Hdwe Mfg Co 4865-4903 Exposit-  
ion Blvd Los Angeles 16 Cal  
Honeycutt Mfg Co Inc 2715 Oak Kansas City  
8 Mo  
Ideal Brass Wks Inc 250 E 5th St Paul 1  
Minn  
**INDEPENDENT LOCK CO 1950 CLEGHORN  
FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN  
8 CONN**  
Kant Slam Door Check Co Bloomfield Ind  
Kees (F D) Mfg Co 700 Park Av Beatrice  
Nebr  
Kentucky Metal Prods Co Preston & Abun-  
don Pk Louisville 4 Ky  
**KWIKSET SALES & SERVICE CO 516 E  
SANTA ANA ANAHEIM CAL**  
**LABORATORY EQUIPMENT CORP HILL-  
TOP RD ST JOSEPH 6 MICH**  
**LOCKWOOD HDWE MFG CO FITCHBURG  
MASS**  
**MACKLANBURG-DUNCAN CO 4041 N  
SANTA FE OKLAHOMA CITY 1 OKLA**  
McKinney Mfg Co 1939 McKinney Pittsburgh  
12 Pa  
Milwaukee Stamping Co 800 S 72nd Milwau-  
kee 14 Wis  
Modern Plastic Co 4641 Pacific Blvd Los An-  
geles 58 Cal  
Monarch Metal Weatherstrip Co 6335 Etzel  
Av St Louis 14 Mo  
National Guard Prods 757 Madison Memphis  
7 Tenn  
**NATIONAL LOCK CO 1902 7TH ROCK-  
FORD ILL**  
Newman Bros 660 W 4th Cincinnati 3 Ohio  
Northern Industries 310 N Water Milwaukee  
2 Wis  
Norwalk Lock Co Div Segal Lock & Hdwe Co  
397 Broadway New York 13 NY  
Pacific Brass & Hdwe Mfg Co 2442 N Chic-  
o Av El Monte Cal  
Parker (S I) Hdwe Mfg Corp 27 Ludlow New  
York 2 NY

Parlyn Ltd 1600 Monterey Pass Rd Monterey  
Park Cal  
Peabody Co Inc 5816 S Hooper Av Los An-  
geles 11 Cal  
Penn Hdwe Co Spruce St Reading Pa  
Petko Industries 1107 E 8th Los Angeles 21  
Cal  
Phenix Mfg Co 4129 N Port Washington Rd  
Milwaukee 12 Wis  
Phoenix Hdwe Mfg Co Buffalo NY  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Reese Padlock Co 126 Sherman Lancaster Pa  
**RICHARD-WILCOX MFG CO 229 3RD AU-  
RORA ILL**  
**RITTENHOUSE CO INC EARL ST HON-  
EYOYE FALLS NY**  
Robbins Mfg Co 1815 N Central Pk Chicago  
47 Ill  
Round Bridgeport Chain & Mfg Co 964 Cres-  
cent Av Bridgeport Conn  
**RUSSELL & ERWIN DIV AMERICAN  
HDWE CORP 102 WASHINGTON NEW  
BRITAIN CONN**  
Safe Padlock & Hdwe Co Lancaster Pa  
Sazer-Barrows Div Yale & Towne Mfg Co  
Berrien Springs Mich  
**SARGENT & CO 45 WATER ST NEW  
HAVEN CONN**  
**SCHLAGE LOCK CO 2201 BAY SHORE  
BLVD SAN FRANCISCO 19 CAL**  
Segal Lock & Hdwe Co Inc 395 Broadway  
New York 13 NY  
Shelby Metal Prods Co Shelby Ohio  
Shelby Spring Hinge Co Shelby Ohio  
Skillman Hdwe Mfg Co 530 Edgewood Av  
Trenton 4 NJ  
Slaymaker Lock Co 115 S West End Av Lan-  
caster Pa  
Southern Wire & Iron Wks 441 Memorial  
Dr Atlanta Ga  
Spanners (A J) Co 1915 Lilac Dr Minne-  
apolis Minn  
Standard Mirror Co 141 Milton Buffalo 10  
NY  
**STANLEY WKS 111 ELM NEW BRITAIN  
CONN**  
Starline Inc 300 N Front Harvard Ill  
**STERLING HDWE MFG CO 2345 NELSON  
CHICAGO 18 ILL**  
Sultan Bros 1470 30th Brooklyn 18 NY  
Superior Accessory Co Glendale 4 Cal  
Taylor Lock Co 2034 W Lippincott Philadel-  
phia 32 Pa  
Thermal Co 45 W Durham Philadelphia 19  
Pa  
Trego Industries Box 221 Red Oak Tex  
Turner Brass Wks 821 Park Av Sycamore  
Ill  
**WAGNER MFG CO FIRST & WASHINGTON  
CEDAR FALLS IOWA**  
Washington Mfg Co Box 370 Washington Iowa  
Waterloo Sales Co Cleveland 19 Ohio  
Wellman Prods Co 1444 E 49th Cleveland 3  
Ohio  
**WESTWOOD MFG CO 1420 S EVERGREEN  
LOS ANGELES 54 CAL**  
**YALE & TOWNE MFG CO HENRY ST  
STAMFORD CONN**

### ▶ HARDWARE, DRAWER KNOBS & PULLS

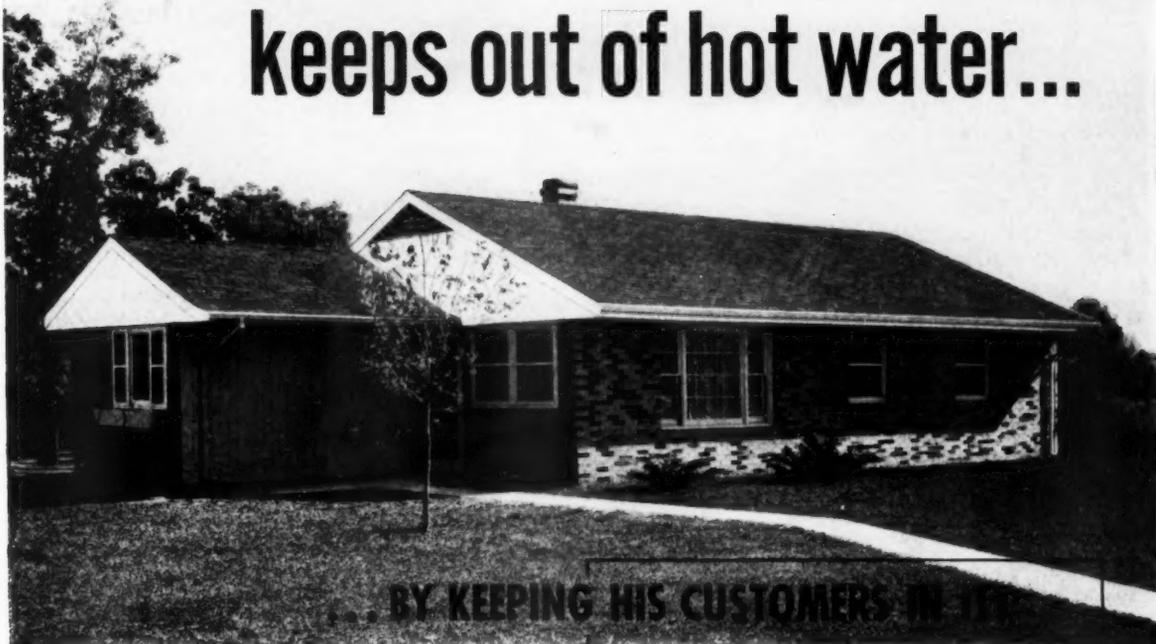
**ADAMS-RITE MFG CO 540 CHEVY CHASE  
GLENDALE 4 CAL**  
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los  
Angeles 32 Cal  
American Brass Goods Co Grand Rapids  
Mich  
American Cabinet Hdwe Corp 416 S Main  
Rockford Ill  
**ARROW LOCK CORP 762 WYTHE AV  
BROOKLYN 11 NY**  
Barrows Lock Wks 24th & Commonwealth  
Av North Chicago Ill  
**BENDIX MFG CO 192 LEXINGTON AV  
NEW YORK 16 NY**  
Champion Hdwe Co Geneva Ohio  
Chicago Wood & Plastic Prods Co 4201 W  
Irving Pk Chicago 41 Ill  
Colonial Bronze Co Winsted Rd Torrington  
Conn  
Cooke (R F) Mfg Co Orange Mass  
**CORBIN (P&F) DIV AMERICAN HDWE  
CORP 67 PARK AV NEW BRITAIN  
CONN**  
Dedoes Machine Wks 2070 W 11-Mile Rd Ber-  
keley Mich  
**DEXTER LOCK CO SUBSID NATIONAL  
BRASS CO 1609 MADISON AV SE GRAND  
RAPIDS 2 MICH**  
Eldon Mfg Co 1010 E 62nd Los Angeles 1 Cal  
Engineered Prods Co 129 Smith Box 118  
Flint 4 Mich  
Ereo Mfg Co 2368 N Elston Av Chicago 14  
Ill  
Fiwale Equipment Mfg Co 105 Reade New  
York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING  
ILL**  
Garden City Plating & Mfg Co 1750 N Ash-  
land Av Chicago 22 Ill  
Gensco Tools 1830 N Kostner Av Chicago 39  
Ill  
Gits Molding Corp 4600 W Huron Chicago  
44 Ill  
**GRANT PULLEY & HDWE CORP 31-63  
WHITESTONE PKWY FLUSHING LI NY**

**HAGER (C) & SONS HINGE MFG CO 139  
VICTOR ST LOUIS 4 MO**  
Heller (W C) & Co 1950 Bryant Montpelier  
Ohio  
Hollymade Hdwe Mfg Co 4865-4903 Exposit-  
ion Blvd Los Angeles 16 Cal  
**INDEPENDENT LOCK CO 1950 CLEGHORN  
FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN  
8 CONN**  
Knap & Vogt Mfg Co 658 Richmond NW  
Grand Rapids 4 Mich  
**LOCKWOOD HDWE MFG CO 35 DANIELS  
FITCHBURG MASS**  
McKinney Mfg Co 1939 McKinney Pittsburgh  
12 Pa  
Modern Plastic Co 4641 Pacific Blvd Los An-  
geles 58 Cal  
**NATIONAL LOCK CO 1902 7TH ROCKFORD  
ILL**  
**NATIONAL MFG CO STERLING ILL**  
Norwalk Lock Co Div Segal Lock & Hdwe Co  
397 Broadway New York 13 NY  
Olympic Hdwe & Paints 4125 W Olympic Blvd  
Los Angeles Cal  
Pacific Brass & Hdwe Mfg Co 2442 N Chic-  
o Av El Monte Cal  
Parker (S I) Hdwe Mfg Corp 27 Ludlow New  
York 2 NY  
Parlyn Ltd 1600 Monterey Pass Rd Monterey  
Park Cal  
Peabody Co Inc 5816 Hooper Av Los Angeles  
Cal  
Penn Hdwe Co Spruce St Reading Pa  
Petko Industries 1107 E 8th Los Angeles 21  
Cal  
Republic Hdwe & Distributing Corp Indian-  
apolis 4 Ind  
**RUSSELL & ERWIN DIV AMERICAN  
HDWE CORP 102 WASHINGTON NEW  
BRITAIN CONN**  
Safe Padlock & Hdwe Co Lancaster Pa  
Sazer-Barrows Div Yale & Towne Mfg Co  
Berrien Springs Mich  
**SARGENT & CO 45 WATER ST NEW  
HAVEN CONN**  
**SCHLAGE LOCK CO 2201 BAY SHORE  
BLVD SAN FRANCISCO 19 CAL**  
Segal Lock & Hardware Co Inc 395 Broadway  
New York 13 NY  
Selek (Walter E) & Co 225 W Hubbard  
Chicago 10 Ill  
Sierra Electric & Mfg Co 544 E 31st Los  
Angeles Cal  
Slaymaker Lock Co 115 S West End Av Lan-  
caster Pa  
Standard Bronze Co 179 W 5th Bayonne 20  
NJ  
**STANLEY WKS 111 ELM NEW BRITAIN  
CONN**  
Stiles (H A) Co 160 N Washington Boston 14  
Mass  
Technical Glass Co Inc 2050 E 48th Los An-  
geles 11 Cal  
Turner Brass Wks 821 Park Av Sycamore  
Ill  
United States Glass Co Fourth Av & Vine  
Tiffin Ohio  
Warren (J D) Mfg Co Montpelier Ohio  
Western Lock Mfg Co 211 N Madison Av Los  
Angeles 4 Cal  
**WESTWOOD MFG CO 1420 S EVERGREEN  
LOS ANGELES 23 CAL**  
**YALE & TOWNE MFG CO HENRY ST  
STAMFORD CONN**

### ▶ HARDWARE, GARAGE DOOR

**ALLITH-PROUTY INC 819 N BOWMAN AV  
DANVILLE ILL**  
**BARBER-COLMAN CO 120 MILL ROCK-  
FORD ILL**  
Busch (A G) & Co Inc 2632 N Central Av  
Chicago 39 Ill  
**CALDER MFG CO 631 N PRINCE LAN-  
CASTER 3 PA**  
Capitol Prods Co 118 S Third Springfield Ill  
Champion Hdwe Co Geneva Ohio  
Colorado Fuel & Iron Corp Continental Oil  
Bldg Denver 2 Colo  
Commander Door Inc Maple Av & B&ORR  
Holmes Pa  
**CORBIN (P&F) DIV AMERICAN HDWE  
CORP 67 PARK AV NEW BRITAIN  
CONN**  
**CRANE (H W) CO 15 N 9TH AV MAY-  
WOOD ILL**  
**CRAWFORD DOOR CO 20263 HOOVER RD  
DETROIT 5 MICH**  
Fiwale Equipment Mfg Co 105 Reade New  
York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING  
ILL**  
Gensco Tools 1830 N Kostner Av Chicago 39  
Ill  
Glide-Away Door Div Stamping Prods &  
Mfg Co 6500 Mack Av Detroit 7 Mich  
Grand Specialties Co 3101 W Grand Chicago  
22 Ill  
**HAGER (C) & SONS HINGE MFG CO 139  
VICTOR ST LOUIS 4 MO**  
Lawrence Bros Sterling Ill  
Louden Machinery Co 261 S Court Fairfield  
Iowa  
McKee Door Co 143 Hermes Aurora Ill  
McKinney Mfg Co 1939 McKinney Pittsburgh  
12 Pa  
**NATIONAL MFG CO STERLING ILL**  
**OVERHEAD DOOR CORP PRR & KICKA-  
POO HARTFORD CITY IND**

# This builder keeps out of hot water...



**YOU** can keep yourself out of hot water—and keep your customers *in* it, by installing *Electric Water Heaters*.

Home buyers want to be modern—to live *electrically*—so they want this water heater that automatically assures an ample supply of hot water at any hour of the day or night. They like the fact that it is clean in operation, and doesn't heat up the area where it is installed, because the tank is so completely and efficiently insulated.

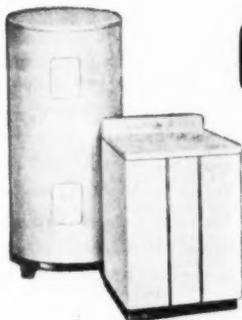
The *Electric Water Heater* is good for the builder—as well as his customer. Since it can be installed anywhere, hot water lines can be short—to reduce installation cost and minimize radiation loss. It can help make your home buyers your satisfied customers.

These houses are in Sylvan Springs, St. Louis, Missouri. Builder Matthew Nothum says: "Electric appliances are a part of modern living—and they do sell homes. That's why all our houses here are equipped with *Electric Water Heaters*. There's nothing like an ample, automatic supply of really hot water to sell home buyers and keep them sold."

## QUIZ FOR BUILDERS

**Q.** What size *Electric Storage Type Water Heater* should I install?

**A.** It pays to install a size adequate to take care of every potential need. In the Nothum houses, the 3-bedroom models have the 80-gallon size, and the 2-bedroom houses have the 66-gallon size.



Be modern... live electrically!

*Equip your homes with*

# electric water heaters

**THEY'RE WHAT  
PEOPLE WANT!**

ELECTRIC WATER HEATER SECTION  
National Electrical Manufacturers Association  
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ALLCRAFT • BAUER • C-E HEATMASTER • CRANE-LINE ELECTRIC • CROSLY • DEEPFREEZE  
FAIRBANKS-MORSE • FRIGIDAIRE • GENERAL ELECTRIC • HOTPOINT • HOTSTREAM  
JOHN WOOD • KELVINATOR • LAWSON • MERTLAND • MONARCH • NORGE • PEMCO  
REX • RHEEM • SEPSCO • A. O. SMITH • THERMOGRAY • WESIX • WESTINGHOUSE

Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
 Sater-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
 Sharon Hdw Mfg Co Sharon Pa  
 Shelby Spring Hinge Co Shelby Ohio  
**SHEFFIELD DOORS INC ROCKFORD ILL**  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 Standard Bronze Co 179 W 5th Bayonne 29 NJ  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

Starline Inc 300 W Front Harvard Ill  
 Sterling Bolt Co 363 W Erie Chicago Ill  
**STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL**  
 Stronghold Screw Prods 1883 W Winnemac Av Chicago 40 Ill  
 Tavant Co Ltd 15134 S Orizaba Box 42 Clearwater Cal  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA**  
 Western Prods Inc Newcastle Ind  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 375 MADISON AV NEW YORK 19 NY**

**▶ HARDWARE, GARAGE, FOLDING DOOR**

Busch (A G) & Co Inc 2632 N Central Chicago 39 Ill  
 Clinton Lock Co Clinton Iowa  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
 Loudon Machinery Co 1120 Broadway Fairfield Iowa  
**NATIONAL MFG CO STERLING ILL**  
 Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal  
 Sharon Hdw Mfg Co Sharon Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 375 MADISON AV NEW YORK 19 NY**

**▶ HARDWARE, GARAGE, UPWARD-ACTING**

**ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL**  
 Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal  
**BARBER-COLMAN CO 120 MILL ROCKFORD ILL**  
 Better-Bilt Door Co Egg Harbor NJ  
**CALDER MFG CO 630 N PRINCE LANCASTER 4 PA**  
 Capitol Prods Co 118 S Third Springfield Ill  
 Clay Equipment Corp 1048 Blake Cedar Falls Iowa  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Homes Mfg Co 211 N Madison Av Los Angeles 4 Cal  
 Loudon Machinery Co Fairfield Iowa  
 McKee Door Co 143 Hermes Aurora Ill  
**NATIONAL MFG CO STERLING ILL**  
**OVERHEAD DOOR CORP PRR & KICKAPOO HARTFORD CT**  
 Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
**SHEFFIELD DOORS INC ROCKFORD ILL**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Starline Inc Harvard Ill  
 Tavant Co 15134 S Orizaba Av Paramount Cal  
 Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal  
 Wagner Mfg Co Cedar Falls Iowa  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN**  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 375 MADISON AV NEW YORK 19 NY**

**▶ HARDWARE, LADDER**

American Ladder Co 5509 NW 7th Av Miami 35 Fla  
 Babcock (W W) Co Inc Delaware Av Bath NY  
 Caster Mold & Machine Co 1171 Wooster Barberton Ohio  
 Goshen Churn & Ladder Inc 1930 Eates Blvd Goshen 4 Ind  
 Heider Mfg Co Carroll Iowa

Larson Ladder Co San Jose Cal  
 Newark Ladder & Bracket Co 17 Walnut Av Clark (Rabway) NJ  
 Richard Mfg Co 3277 Spring Grove Av Cincinnati 35 Ohio  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Tilley (John S) Ladders Co Inc 2365 McKinley Av Davenport Iowa

**▶ HARDWARE, SCREEN & STORM SASH**

Acorn Mfg Co Mansfield Mass  
 Air-Tite Window Stay Co Chicopee Mass  
 Ajax Hdw Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
 Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
 American Cabinet Hdw Corp Dept 1-AP Rockford Ill  
 Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill  
 Casement Hdw Co 612 N Michigan Av Chicago 11 Ill  
**CECO STEEL PRODS CORP 5601 W 26TH CHERO 59 ILL**  
 Champion Hdw Co Geneva Ohio  
 Chicago Spring Hinge Co 1500-02 Carroll Av Chicago Ill  
 Clinton Lock Co Clinton Iowa  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
 Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill  
**DENTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Engineered Prods Co 129 Smith Box 118 Flint 4 Mich  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 General Hdw Mfg Co Inc 80 White New York 13 NY  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Handy Things Mfg Co N Rowe St Ludington Mich  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
 Keeb (F D) Mfg Co 700 Park Av Beatrice Neb  
 Knap & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Larson (Charles O) Co Ave "G" & C&NW Ry Sterling Ill  
 Lawrence Bros Sterling Ill  
**LOCKWOOD HDWE MFG CO FITCHBURG MASS**  
 Ludwig Mfg Co Inc 2401 Durand Rd Racine Wis  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
**NATIONAL LOCK CO 1902 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**  
 Norwalk Lock Co Div Segal Lock & Hdw Co 397 Broadway New York 13 NY  
 Oley Prods Inc 199 Wahl Av Inwood LI NY  
 Parker (S) Hdw Mfg Corp 27 Ludlow New York 2 NY  
 Penn Hdw Co Spruce St Reading Pa  
 Pecko Industries 1107 E 8th Los Angeles 21 Cal  
 Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY**  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON AV NEW BRITAIN CONN**  
 Safe Padlock & Hdw Co Lancaster Pa  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
 Sharon Hdw Mfg Co Sharon Pa  
 Shelby Spring Hinge Co Shelby Ohio  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
**STERLING HDWE MFG CO 2341 W NELSON CHICAGO 18 ILL**  
 Vimcar Sales Co Box 2187 South Annex Sta Van Nuys Cal  
 Washburn Co 28 Union Worcester 8 Mass  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 375 MADISON AV NEW YORK 19 NY**  
 Wright Prods Inc St Paul Park Minn  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

**▶ HARDWARE, SLIDING DOORS**

Accurate Metal Weatherstrip Co Inc 216 E 26th New York 10 NY  
**ACME APPLIANCE MFG CO 35 S RAYMOND AV PASADENA 1 CAL**  
**ADAMS-RITE MFG CO 540 W CHEVY CHASE DR GLENDALE 4 CAL**

**ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL**  
**AMERICAN SCREEN PRODS CO 807 NW 29TH MIAMI 37 FLA**  
 American Sliding Door Hdw Corp 2084 First Av New York 29 NY  
 Clay Equipment Corp 1148 Blake Cedar Falls Iowa  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Clinton Lock Co Clinton Iowa  
 Coburn Trolley Track Prods Wickwire Spencer Steel Div Colorado Fuel & Iron Corp Clinton Mass  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
 Engineered Prods Co 129 Smith Box 118 Flint 4 Mich  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Garden City Plating & Mfg Co 1750 N Ashland Chicago 22 Ill  
 Garrick & Custer Inc 2050 W Florence Av Los Angeles 47 Cal  
**GRANT PULLEY & HDWE CORP 31-63 WHITESTONE PKWY FLUSHING LI NY**  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**KENNATRACK CORP ROUTE 5 E JACKSON BLVD ELKHART IND**

Knap & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Lanebro Mfg Co Inc Poughkeepsie NY  
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**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
 Long (Ralph L) Co 3570 Olive Lemon Grove Cal  
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**M-D Sliding Door HARDWARE**  
 FOR ALL DOORS UP TO 70 LBS.  
 3/4", 1", 1 1/2" and wall pocket doors

★ Never jumps track!  
 ★ Completely noiseless!  
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 Morgan Co 520 Oregon Oshkosh Wis  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Nasco Wood Prods Inc 402 E 108th New York 16 NY  
**NATIONAL LOCK CO 1902 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**  
 Ney Mfg Co 948 High Av SW Canton Ohio  
**NORDAHL CO 180 W ALAMEDA BURNING BANK CAL**  
 Nu-Way Builders Corp 7326 Fulton North Hollywood Cal  
 Olson Mfg Co 620-24 S Broadway Albert Lea Minn  
 Pacific Brass & Hdw Mfg Co 2442 N Chico Av El Monte Cal  
 Parker (S) Hdw Mfg Corp 27 Ludlow New York 2 NY



"Brunetti Built Homes",  
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Builder: Fred Brunetti,  
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Windows: Lupton Steel  
Residential Casements.

## 5 Years of Success with Lupton Metal Windows

When the same builder buys the same windows year after year it can mean just one thing. He likes them — and so do the people who buy his houses. Since 1949 about 500 "Brunetti Built Homes" have been built in Bergen County, N. J., with Lupton Steel casements in all of them. And why not . . . what other window offers so much for so little:

There is strength — sturdy steel welded for long-lasting window life.

There is beauty — slender frames and muntins have a delicate, airy grace, blend with any architectural style.

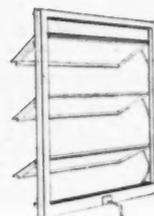
There is efficiency — extended hinges allow both sides of the glass to be cleaned from the room. A Roto-operator assures quick, easy opening of the window, and snug tight closing. And, a Lupton Casement gives 100% ventilation use of the window opening.

There are construction savings — installation is quick and simple, a one-man job. Very little trim is needed, and you can even cut down on that with Lupton Metal Surrounds and Casings.

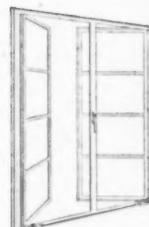
Why not add the Lupton 40-year-old reputation for quality to your name. Get full details today. There's a Lupton Metal Window of Steel or Aluminum for any building — write for the complete catalog.

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700 East Godfrey Avenue, Philadelphia 24, Pa.  
*Member of the Steel Window Institute and Aluminum  
Window Manufacturers Association*

# LUPTON METAL WINDOWS



Lupton Aluminum  
Awning Window



Lupton Casement  
Steel or Aluminum



Lupton Aluminum  
Double Hung Window

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 Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
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 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
 Hall (Harry) & Co Inc 964 N Darien Philadelphia Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Starline Inc 390 W Front Harvard Ill  
**STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL**  
 US Sliding Door Corp 241 Lexington Av New York 16 NY  
 Vimear Sales Co Box 2187 South Annex Sta Van Nuys Cal  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA**  
**WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH**  
**WEL-BILT PRODS CO BOX 95 MEMPHIS 1 TENN**  
 Western Prods Inc New Castle Ind  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

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**ADAMS RIFE MFG CO 540 W CHEVY CHASE DR GLENDALE 4 CAL**  
 Ajax Hdwe Mfg Corp 4951 Valley Blvd Los Angeles 32 Cal  
 American Cabinet Hdwe Corp 416 S Main Rockford Ill  
**ARROW LOCK CORP 763 WYTHE AV BROOKLYN 11 NY**  
 Austin & Eddy Inc Box 1504 Boston 4 Mass  
 Austral Sales Corp 101 Park Av New York 17 NY  
 Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill  
 Champion Hdwe Co Geneva Ohio  
 Cipes Corp 22nd & Cole St Louis 6 Mo  
 Clinton Lock Co Clinton Iowa  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
 Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill  
 Detroit Hdwe Mfg Co 1320 Mt Elliott Detroit Mich  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Erco Mfg Co 2368 N Elston Chicago 14 Ill  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
**GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA**  
**GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS 2 MICH**  
**GRANT PULLEY & HDWE CORP 31-63 WHITSTONE PKWY FLUSHING LI NY**  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Ideal Brass Wks Inc 250 E Fifth Av St Paul 1 Minn  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
 Knap & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich  
 Lawrence Bros Sterling Ill  
**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
**MACLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
**MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA**  
**NATIONAL LOCK CO 1962 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**

Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway New York 13 NY  
 Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Parlyn Ltd 1600 Monterey Pass Rd Monterey Park Cal  
 Peabody Co Inc 5816 S Hooper Av Los Angeles 11 Cal  
 Penn Hdwe Co Spruce St Reading Pa  
 Petco Industries 1107 E 8th Los Angeles 21 Cal  
**Phenix Mfg Co 4120 N Fort Washington Rd Milwaukee 13 Wis**  
 Reese Padlock Co 126 Sherman Lancaster Pa  
 Rockford Brass Wks Rockford Ill  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 162 WASHINGTON NEW BRITAIN CONN**  
 Safe Padlock & Hdwe Co Lancaster Pa  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
 Sharon Hdwe Mfg Co Sharon Pa  
 Shelby Metal Prods Co Shelby Ohio  
 Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
 Slaymaker Lock Co 1155 S West End Lancaster Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Star Metal Prods Inc 870 Butler Brooklyn 17 NY  
 Steel Window Prods Co 660 Nassau Rd Roosevelt LI NY  
**STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL**  
 Sun Metal Prods Co 3319 W Carroll Chicago 24 Ill  
 Vimear Sales Co Box 2187 South Annex Sta Van Nuys Cal  
 Vulcan Metal Prods 2801 6th Av S Birmingham Ala  
 Whitney (Vincent) Co Box 335 Sausalito Cal  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

**▶ HARDWARE, VENETIAN BLIND**

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 Hills Window Shade & Venetian Blind Co 5459 S Lake Park Av Chicago Ill  
 Carey-McFall Co Philadelphia 25 Pa  
 Eastern Machine Prods Co 1601 Wicomico Baltimore 30 Md  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**HUNTER DOUGLAS CORP 150 BROADWAY NEW YORK 7 NY**  
 Levolor Lorentzen Inc & Lorentzen Hdwe Mfg Corp 391 W Broadway New York 12 NY  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY**  
 Venetian Blind Corp 600 Camelia Berkeley Cal

**▶ HARDWARE, WINDOW**

ARB WINDOW SALES CO 306 E STATE FAIR AV DETROIT 3 MICH  
 ACME APPLIANCE MFG CO 35 S RAYMOND AV PASADENA 1 CAL

**▶ HASPS, HINGE**

**ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL**  
 Champion Hdwe Co Geneva Ohio  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AVE NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**

**SLASH LIGHTING COSTS**  
 with **FREE SUN LIGHT**



get **CHEM-O-GLAS** Panels

IT MAY PAY YOU WELL to get full details on economics now possible through use of these shatterproof, translucent, chemical-glass sheets.

Only one of its type L.A. Code Approved as "Flame resistant." Colorful. Colorfast. Fadeproof. Maintenance-free. No paint needed—ever. Precision-molded under 400,000 lbs. to give greater strength of 26,000 psi, and absolute uniformity throughout. 5 colors in flat, or exclusive RIBBED shape so easy to install without costly special moldings. Small 3/8" rib overlap saves up to 5¢ per sq. ft. Get facts!

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 Company.....  
 Address.....  
 City..... State.....

**DeLuxe Maroon Finish**



**IMPROVED 78" ONLY**  
**3 lb. MAGNESIUM LEVEL \$17.45**  
 Plain Electroplate Finish 78" \$15.95—72" \$15.45  
 DeLuxe 72" \$16.95

For setting door jambs and window frames! No other like it. 4 Plumbs, 2 LEVELS. Use either end or edge up. Weighs only 3 lbs. I-Beam type—stronger than aluminum. Direct from factory. Patented.

**NO FACTORY REPAIRS NEEDED**

Spirit tube holder (50¢) replaced with screwdriver. An ideal gift for any occasion. We pay shipping when order includes check or M.O. Also sent C.O.D.

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with **AMERICAN DEVICE**  
 Adjustable Built-in **MAIL CHUTES**  
 fits any size wall



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**AMERICAN BUILDER**

Fiwale Equipment Mfg Co 105 Rende New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Geneco Tools 1830 N Kostner Av Chicago 39 Ill  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Master Lock Co 2600 N 32nd Milwaukee 10 Wis  
**McKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA**  
**NATIONAL LOCK CO 1902 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
**RICHARDS-WILCOX MFG CO 220 THIRD AUBORA ILL**  
 Safe Padlock & Hdwe Co Lancaster Pa  
 Sharon Hdwe Mfg Co Sharon Pa  
 Shaysmaker Lock Co 115 S West End Av Lancaster Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

### ▶ HATCHETS

Bridgport Hdwe Mfg Corp 461 Iranian Av Bridgeport 5 Conn  
 Collins Co Collinsville Conn  
 Estwing Mfg Co Rockford Ill  
**GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 8 MO**  
 Griffith Tool Wks 2nd & Duncannon Av Philadelphia 20 Pa  
 Marion Tool Corp 1111 Miller Av Marion Ind  
 Markwell Mfg Co Inc 200 Hudson New York 13 NY  
 Peck, Stow & Wilcox Co Southington Conn  
 Plumb (Fayette R) Inc Philadelphia Pa  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 Vaughn & Bushnell Mfg Co 135 S LaSalle Chicago Ill

### ▶ HEADS, DADO

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**BOICE CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
 Consolidated Machinery & Supply Co 2029 Santa Fe Los Angeles 21 Cal  
 Disston (Henry) & Sons Inc Tacony Sta Philadelphia 25 Pa  
 Jet Tool Co Box 247 Lemon Grove Cal  
 Kneisley Elec Co 2501-9 Lagrange Toledo 3 Ohio  
**MASTER WOODWORKER MFG CO 409 E FORT DETROIT 26 MICH**  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**  
 Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio  
 Western Saw Wks Los Angeles Cal  
 Yates-American Machine Co 729 4th Beloit Wis

### ▶ HEARTH, CANTILEVER

Donley Bros 13910 Miles Av Cleveland 5 Ohio

### ▶ HEATERS, BATHROOM

Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa  
 Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
 Armstrong Prods Corp Huntington 12 W Va  
 Atlanta Stove Wks 112 Krog NE Atlanta Ga  
 Birmingham Stove & Range Co Box 2593 Birmingham 2 Ala  
 Cavalier Corp Chattanooga Tenn  
 Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
 Dearborn Stove Co 1700 W Commerce Dallas Tex  
**ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ**  
**ELECTROMODE CORP 49 CROUCH ROCHESTER 3 NY**  
**EMERSON ELECTRIC MFG CO 8100 FLO-RISSANT AV ST LOUIS 21 MO**  
 Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY  
 LeSalle Prods Inc 143 Seneca Buffalo 3 NY  
**MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
**OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO**  
 Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky  
**PRYNE & CO 140 N TOWNE POMONA CAL**  
**SHEPLER MFG CO 1229 GOEBEL PITTSBURGH 33 PA**  
**THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL**  
**WESTX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL**  
**WESTINGHOUSE ELECTRIC CORP BOX 865 PITTSBURGH 30 PA**

### ▶ HEATERS, COAL

**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 22 PA**  
 Anchor Div Stratton & Terstegge Co Inc Box 311 200 Culbertson Av New Albany Ind  
 Athens Stove Wks Inc Hicks St Athens Tenn  
 Atlanta Stove Wks 112 Krog NE Atlanta Ga  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Excelsior Stove & Mfg Co Quincy Ill  
 Gray & Dudley Co 2300 Clifton Rd Nashville 3 Tenn  
 Hart Mfg Co 2006 N Western Pkwy Louisville 3 Ky  
 King Stove & Range Co Sheffield Ala  
 Kraus (Walter S) Co 48-02 43rd Woodside NY  
 Locke Stove Co 114 W 11th Kansas City 6 Mo  
 Monarch Malleable Iron Range Co Beaver Dam Wis  
 Red Jacket Coal Sales Co 115 E Rich Columbus 15 Ohio  
 Stokermatic Co 1610 Industrial Rd Salt Lake City Utah  
 Washington Stove Wks Box 919 Everett Wash

### ▶ HEATERS, CONCRETE

Aerol Prods Co Inc 69 Wesley South Hackensack NJ  
 American Steel Wks 1211 W 27th Kansas City 8 Mo  
 Hauck Mfg Co 124-136 10th Brooklyn 15 NY  
 Unique Mfg Co Inc 221 W Walton Chicago Ill

### ▶ HEATERS, CONTRACTORS, PORTABLE

Cauborn Distributing Co 9999 Broadstreet Detroit 4 Mich  
**ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ**  
**ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY**  
 Faxcol Heat Machine Co 5725 Mt Elliott Av Detroit 11 Mich  
**HERMAN NELSON 315 CENTRAL AV LOUISVILLE KY**  
 International Mfg Co 2249 S Delaware Denver 19 Colo  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**WESTERN METAL SPECIALTY CO 1211 N 62ND MILWAUKEE 13 WIS**

### ▶ HEATERS, ELECTRIC

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
 Armstrong Prods Corp Huntington 12 W Va  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 Cavalier Corp Chattanooga Tenn  
 Coburn Mfg Co Whitewater Wis  
 Colloid Equipment Co Inc 19 Murray New York 7 NY  
**ELECTRIGLAS CORP NEW BRIDGE & WINDSOR RD BERGENFIELD NJ**  
**ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY**  
 Excelsior Stove & Mfg Co Quincy Ill  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
**NU TONE INC RED BANK & MADISON RDS CINCINNATI 27 OHIO**  
 Philadelphia Electrical Mfg Co 1200 N 31st Philadelphia 21 Pa  
 Rutenber Electric Co Inc Marion Ind  
 Thermoray Corp 141 E 44th New York 17 NY  
 Wayne Home Equipment Co 801 Glasgow Ft Wayne Ind

### ▶ HEATERS, GAS

Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa  
 American Gas Machine Co 505 Front Albert Lea Minn  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 22 PA**  
 Armstrong Prods Corp Huntington 12 W Va  
 Atlanta Stove Wks 112 Krog NE Atlanta Ga  
 Birmingham Stove & Range Co Box 2593 Birmingham 2 Ala  
**BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR AV CLEVELAND 10 OHIO**  
 Chattanooga Royal Co East Chattanooga Tenn  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS**  
 Coroaire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
 Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
 Dearborn Stove Co 1700 W Commerce Dallas Tex  
 Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind  
 Dravo Corp Dravo Bldg 5th & Liberty Aves Pittsburgh 22 Pa  
 Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich

### ▶ HEATERS, OIL

**EMPIRE STOVE CO 918 FREEBURG AV BELLEVILLE ILL**  
 Excelsior Stove & Mfg Co Quincy Ill  
 Florence Stove Co School St Gardner Mass  
 Folsom Co Inc 8104 Oak Lane Dallas 10 Tex  
 Glenwood Range Co 200 W Water Taunton Mass  
 Gray & Dudley Co 2300 Clifton Rd Nashville 3 Tenn  
 Hammel Radiator Engineering Co 8348 Motor Av Los Angeles Cal  
**HARRISON STEEL CABINET CO 4718 W 5TH AV CHICAGO 44 ILL**  
 Henry Furnace Co Medina Ohio  
**HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY**  
 Inland Steel Container Co #25 N Cortez New Orleans 19 La  
 King Stove & Range Co Sheffield Ala  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
 Locke Stove Co 114 W 11th Kansas City 6 Mo  
 Lonergan Mfg Co Clark St Albion Mich  
 Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo  
 National Radiator Co 223 Central Av Johnson Pa  
 Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich  
**OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO**  
 Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO**  
 Pioneer Water Heater Corp 8131 San Fernando Rd Los Angeles 65 Cal  
 Portable Heater Co 814 Engineers Bldg Cleveland Ohio  
 Preway Inc 1430 Second N Wisconsin Rapids Wis  
 Quaker Mfg Co 1147 Merchandise Mart Chicago Ill  
**REZNER MFG CO MERCER PA**  
 Royal Jet Inc 1024 Westminster Alhambra Cal  
 Silent Sioux Corp 208 W College Av Orange City Iowa  
**TEMCO INC 4104 PARK AV NASHVILLE 9 TENN**  
 Trans Co 3rd & Cameron LaCrosse Wis  
 Tri-Therm Heater Co 40 Howard Sumersville 44 Mass  
 Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind  
 Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
 Young Radiator Co 709 S Marquette Racine Wis  
 Zink (John) Co 4401 S Peoria Tulsa 1 Okla

**▶ HEATERS, OIL**

Aerol Prods Co Inc 69 Wesley South Hackensack NJ  
 American Gas Machine Co 505 Front Albert Lea Minn  
 American & Southern Corp 1000 6th South Nashville 10 Tenn  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS**  
 Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind  
 Dravo Corp Dravo Bldg 5th & Liberty Aves Pittsburgh 22 Pa  
 Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
 Excelsior Stove & Mfg Co Quincy Ill  
 Florence Stove School St Gardner Mass  
**GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ**  
 International Oil Burner Co 3800 Park Av St Louis 10 Mo  
 Karr Range Co 7th & Harrison Belleville Ill  
 Kresky Mfg Co Petaluma Cal  
 Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ  
 Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 7 Wis  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
 Lonergan Mfg Co Clark St Albion Mich  
 Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo  
 Monarch Malleable Iron Range Co Beaver Dam Wis  
 Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO**  
 Preway Inc 1430 Second N Wisconsin Rapids Wis  
 Quaker Mfg Co 1147 Merchandise Mart Chicago Ill  
 Silent Sioux Corp 208 W College Av Orange City Iowa  
 US Machine Corp Lebanon Ind  
 Washington Stove Wks Box 919 Everett Wash  
 Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind  
**YORK-SHIPLEY INC BOX 349 YORK PA**

**▶ HEATERS, PORTABLE ELECTRIC**

Appliance Mfg Co Alliance Ohio  
 Cavalier Corp Chattanooga Tenn

Continental Radiant Glass Heating Corp 1 E 10th New York 17 NY  
 Dry Clime Lamp Corp Greensburg Ind  
 Economaster Prods Co Inc Nashville Tenn  
**ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ**  
**ELECTROMODE CORP 45 CROUCH ROCH-ESTER 3 NY**  
**EMERSON ELECTRIC MFG CO 8100 FLOR-ISSANT AV ST LOUIS 21 MO**  
 Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY  
**GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL**  
**HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY**  
 Imperial Motor Corp Kingston Pa  
 Kneisley Electric Co 2501-9 LaGrange Toledo 3 Ohio  
 LaSalle Prods Inc 143 Seneca Buffalo 3 NY  
 Lawson Mfg Co Wilkinsburg Pa  
**MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY**  
 Metal Prods Mfg Co 1762 Ranier Seattle 44 Wash  
 National Die Casting Co Touhy Av at Lawndale Chicago Ill  
 National Ideal Co 914 Summit Toledo 4 Ohio  
 Noblitt-Sparks Industries Inc Columbus Ohio  
 Radiant Heater Corp 1 E 35th New York NY  
 Rutenber Electric Co Inc Marion Ind  
 Shepler Mfg Co 1229 Goebel Pittsburgh 33 Pa  
 Superior Electric Prods Corp 1507-17 Independence Cape Girardeau Mo  
 Swartzbaugh Mfg Co Toledo Ohio  
 Tennessee Valley Associated Marketers Nashville Tenn  
**THERMADOR ELECTRIC MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL**  
 Thermoray Corp 141 E 44th New York 17 NY  
 Titan Mfg Co Inc 701 Seneca Buffalo 10 NY  
 Wells Lamp Corp Buffalo NY  
**WESTIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL**  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO**

### ► HEATERS, ROOM

Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa  
 Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
 Armstrong Prods Corp Box 940 Huntington 12 W Va  
 Atlanta Stove Wks 112 Krog St NE Atlanta Ga  
**BRYANT HEATER DIV AFFILIATED GAS EQUIP INC 17825 ST CLAIR CLEVELAND OHIO**  
 Cavalier Corp Chattanooga Tenn  
 Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN**  
 David-Maydole Tool Corp Hurlburt & Forsythe Norwich NY  
 Dearborn Stove Co 1700 W Commerce Dallas Tex  
 Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
**ELECTROMODE CORP 49 CROUCH ROCH-ESTER 3 NY**  
 Evans Prods Co 13101 Eckles Rd Plymouth Mich  
 Excelsior Stove & Mfg Co Quincy Ill  
 Florence Stove Co School St Gardner Mass  
 Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY  
 Kalamazoo Stove & Furnace Co 56 Rochester Av Kalamazoo Mich  
 Kresky Mfg Co 2nd & "H" Sts Petaluma Cal  
 LaSalle Prods Inc 143 Seneca Buffalo 3 NY  
**LITTLE (H C) BURNER CO INC BOX 60 SAN RAFAEL CAL**  
 Locke Stove Co 114 W 11th Kansas City Mo  
**MARKET ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY**  
 National Enameling & Stamping Co Milwaukee Wis  
**OHIO FOUNDRY & MFG CO 629 SLACK STEUBENVILLE OHIO**  
 Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO**  
 Preway Inc 1430 Second St N Wisconsin Rapids Wis  
 Quaker Mfg Co 1147 Merchandise Mart Chicago Ill  
 Queen Stove Wks 505 Front Albert Lea Minn  
 Reznor Mfg Co Mercer Pa  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**SHEPLER MFG CO 1229 GOEBEL PITTS-BURGH 33 PA**  
 Silent Glow Oil Burner Corp 1475 Park Hartford Conn  
 Tesco Inc 110 S Norfolk Tulsa Okla  
 US Machine Corp Lebanon Ind  
 Viking Mfg Corp 1747 Chester Av Cleveland 4 Ohio  
 Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**

### ► HEATERS, TANKLESS WATER

**BELL & GOSSETT CO 8200 AUSTIN MOR-TON GROVE ILL**  
 General Fittings Co 123 Georgia Av Providence 5 RI  
 Midget Heater & Specialty Co 2801 Pacific Av Tacoma Wash  
 Red Spot Electric Co 7405 S Tacoma Av Tacoma Wash  
 Taco Heaters Inc 137 South Providence RI  
**THRUSH (H A) CO PERU IND**  
**TIMKEN SILENT AUTOMATIC DIV TIM-KEN-DETROIT AXLE CO 209 E WASH-INGTON JACKSON MICH**  
 Triplex Heating Specialties Co Box 33 Peru Ind

### ► HEATERS, UNIT

Automatic Gas Equipment Co 301 Brushton Av Pittsburgh 21 Pa  
 Brown Mfg Co Inc 1669 N Water Milwaukee 2 Wis  
 Carrier Corp 300 S Geddes Syracuse 1 NY  
 Clarage Fan Co 719 Porter Kalamazoo Mich  
 James B Clow & Sons 201-299 N Talman Av Chicago 80 Ill  
 Coraire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
 Cutler Hammer Inc 201 N 12th Milwaukee 1 Wis  
 Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
 Delta Heating Corp 1 Cole Trenton 8 NJ  
 Earle Kitchen Unit Co 116 E 63rd New York 21 NY  
**ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ**  
**ELECTROMODE CORP 49 CROUCH ROCH-ESTER 3 NY**  
 Felders-Quigan Corp Lator & Hancock Trenton NJ  
 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
 Hartzell Propeller Fan Co Div Castle Hills Corp Piqua Ohio  
 Henry Furnace Co Medina Ohio  
**HERMAN NELSON 215 CENTRAL AV LOUISVILLE KY**  
 Kresky Mfg Co 2nd & "H" Sts Petaluma Cal  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
 McCord Corp Ripelle at East Grand Blvd Detroit Mich  
 McQuay Inc 1600 Broadway NE Minneapolis 13 Minn  
 Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis  
 Modine Mfg Co 1300 DeKoven Av Racine Wis  
**MURRAY (D J) MFG CO 1024 THIRD WAUSAU WIS**  
 National Radiator Co 223 Central Av Johnson Pa  
**NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO**  
 Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal  
 Peerless Mfg Co 1400 W Ormsby Louisville 10 Ky  
**REZTOR MFG CO DAVID ST MERCER PA**  
 Rittinger Corp Rand Bldg Buffalo 3 NY  
**ROBERTS-GORDON APPLIANCE CORP 44 CENTRAL AV BUFFALO 6 NY**  
**SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO**  
 Trane Co 3rd & Cameron LaCrosse Wis  
 United States Air Conditioning Corp 500 Av SE at 33rd Minneapolis 14 Minn  
 Utility Appliance Corp 4851 S Alameda Los Angeles 38 Cal  
 Webster (Warren) & Co 17th & Federal Camden 5 NJ  
**WESTIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL**  
 Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass  
 Young Radiator Co 709 S Marquette Racine Wis

### ► HEATERS, WALL

Adams (Frank) Electric Co 3650 Bell Av St Louis Mo  
 Adams Bros Mfg Co Inc 1500 North Av W Pittsburgh 33 Pa  
 Armstrong Prods Corp Huntington 12 W Va  
 Cavalier Corp Chattanooga Tenn  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KANS**  
 Coraire Heater Corp Hanna Bldg Cleveland Ohio  
 Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
 Delta Heating Corp 1 Cole Trenton 8 NJ  
**ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ**  
**ELECTROMODE CORP 49 CROUCH ROCH-ESTER 3 NY**  
 Galbraith (C C) & Son Electric Corp 450 Av of the Americas New York 11 NY  
 General Water Heater Corp 1 E Magnolia Blvd Burbank Cal  
 Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal  
 Kresky Mfg Co 2nd & "H" Sts Petaluma Cal  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
 La Salle Prods Inc 143 Seneca Buffalo 3 NY

**MARKEL ELECTRIC PRODS INC 129-149 SENECA BUFFALO 3 NY**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
**OHIO FOUNDRY & MFG CO STEUBEN-VILLE OHIO**  
 Payne Furnace Co 801 Royal Oaks Dr Monrovia Cal  
 Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky  
 Royal J-1 Inc 1024 Westminster Alhambra Cal  
**SHEPLER MFG CO 1229 GOEBEL PITTS-BURGH 33 PA**  
 Tennessee Enamel Mfg Co 4104 Park Av Nashville 9 Tenn  
**THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES 22 CAL**  
 Thermoray Corp 141 E 44th New York 17 NY  
 Titan Mfg Co 701 Seneca Buffalo 10 NY  
 Utility Appliance Corp 4851 S Alameda Los Angeles 38 Cal  
 Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WESTIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL**  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Zink (John) Co 4401 S Peoria Tulsa 1 Okla

### ► HEATERS, WATER

Adams Co Box 268 Dulake Iowa  
 Airtemp Div Chrysler Corp 1610 Webster Dayton 1 Ohio  
**ALDRICH CO DIV BREEZE CORP INC WYOMING ILL**  
 American Gas Machine Co 505 Front Albert Lea Minn  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
 American & Southern Corp 1000 6th South Nashville 10 Tenn  
 Atlanta Stove Wks 112 Krog NE Atlanta Ga  
 Automatic Electric Co Inc Pottstown Pa  
 Bard Mfg Co Bryan Ohio  
**BELL & GOSSETT CO 8200 AUSTIN MOR-TON GROVE ILL**  
 Brown Stove Wks Inc Cleveland Tenn  
**BRYANT HEATER DIV AFFILIATED GAS EQUIP INC 17825 ST CLAIR CLEVELAND OHIO**  
 Clayton & Lambert Mfg Co 1701 Dixie Hwy Louisville 10 Ky  
 Cleveland Heater Co 2310 Superior Av Cleveland 14 Ohio  
 Cleveland Steel Prods Co Torridheat Div 15801 Brookpark Rd Cleveland 11 Ohio  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
**COLEMAN CO 250 N ST FRANCIS WICH-ITA 1 KAN**  
 Colloid Equipment Co Inc 19 Murray New York 7 NY  
 Combustion Engineering Inc 200 Madison Av New York 16 NY  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
 Crane Electric Industries Eugene Ore  
**CROSLLEY DIV AVCO MFG CORP 1329 AR-LINGTON CINCINNATI 25 OHIO**  
 Day & Night Mfg Div Affiliated Gas Equipment Inc S Shamrock Av Monrovia Cal  
 Dearborn Stove Co 1700 W Commerce Dallas Tex  
 Deepfreeze Appliance Div Motor Prods Corp 2301 Davis North Chicago Ill  
**DELCO APPLIANCE DIV GENERAL MO-TORS CORP LYVELL & WHITNEY ROCH-ESTER NY**  
 Deves-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind  
 Dowagiac Steel Furnace Co Dowagiac Mich  
 Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
 Economaster Sales Inc 120 9th Av N Nashville Tenn  
 Evans Prods Co 13101 Eckles Rd Plymouth Mich  
 Excelsior Stove & Mfg Co Quincy Ill  
 Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill  
 Fowler Mfg Co 2545 SE Gladstone Portland Ore  
 Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL ELECTRIC CO MAJOR APPLI-ANCE DIV 310 W LIBERTY LOUISVILLE 2 KY**  
 General Implement Corp Terminal Tower Cleveland 13 Ohio  
 Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich  
 General Water Heater Corp 1 E Magnolia Blvd Burbank Cal  
 Gray & Dudley Co 2300 Clifton Rd Nashville Tenn  
**HARRISON STEEL CABINET CO 4716 W 5TH AV CHICAGO ILL**  
 Hedges (M M) Co 700 E Main Box 869 Chat-tanooga Tenn  
 Hilo Engineering Co Genoa City Wis  
**HOTPOINT CO 5600 W TAYLOR CHICAGO 4 ILL**  
 Hotstream Heater Co 2363 E 69th Cleveland Ohio  
 Hynes & Cox Electric Co Cohoes Rd & Elm Watervly NY

IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
 JOHNSON (S T) CO 940 ARLINGTON OAKLAND CAL  
 KELVINATOR DIV NASH-KELVINATOR CO 1250 PLYMOUTH RD DETROIT 32 MICH  
 Kewanee-Ross Corp 101 Franklin Kewanee Ill  
 Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ  
 Kresky Mfg Co 2nd & "H" Sts Petaluma Cal  
 Kresno-Stamm Mfg Co 400 Commercial Av Palisades Park NJ  
 Lawson Mfg Co Wilkesburg Pa  
 Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis  
 LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL  
 McGraw Electric Co 5201 W 65th Chicago 38 Ill  
 Monarch Malleable Iron Range Co Beaver Dam Wis  
 Norge Heat Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich  
 Penberthy Injector Co 1242 Holden Av Detroit 2 Mich  
 PERFECTION STOVE CO 7609 PLATT AV CLEVELAND OHIO  
 Petroleum Heat & Power Co Springfield Av Stamford Conn  
 Pioneer Water Heater Corp 3131 San Fernando Rd Los Angeles 65 Cal  
 Pittsburgh Water Heater Co 193 Chartiers Av Pittsburgh Pa  
 Quaker Mfg Co 1147 Merchandise Mart Plaza Chicago Ill  
 Ray Oil Burner Co 401-499 Bernal Av San Francisco 12 Cal  
 Republic Heater Corp 2231 Randolph Huntington Park Cal  
 RHEEM MFG CO 570 LEXINGTON AV NEW YORK NY  
 Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va  
 Rood Mfg Co 2934 Smallman Pittsburgh 1 Pa  
 Sav-U-Time Devices Inc 88 Manhattan Rochester 7 NY  
 Seeco Corp 860 Cross Pottstown Pa  
 SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND  
 Smith (A O) Corp Remaglas-Heating Div Kankakee Ill  
 Smith (A O) Corp 3533 N 27th Milwaukee 1 Wis  
 Standard Gas Equipment Corp Baltimore Md  
 Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
 Swartzbaugh Mfg Co Toledo Ohio  
 Taco Heaters Inc 137 South Providence RI  
 THERMADOR ELECTRICAL MFG CO 5119 DISTRICT BLVD LOS ANGELES CAL  
 TIMKEN SILENT AUTOMATIC DIV TIMKEN DETROIT AXLE CO 209 E WASHINGTON JACKSON MICH  
 Tri-Therm Heater Co 40 Howard Somerville 14 Mass  
 US Porcelain Enamel Co 4635 E 52nd Dr Los Angeles 22 Cal  
 Universal Major Electric Appliance Co Box 119 Lima Ohio  
 Utility Appliance Corp 4851 S Alameda Los Angeles 58 Cal  
 Vestal Mfg Co Box 152 Sweetwater Tenn  
 Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio  
 Waldorf Heater Co Philadelphia 2 Pa  
 Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind  
 Welleswood Div Rheem Mfg Co Wells Av Newark Cal  
 WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL  
 WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO  
 WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA  
 WHITE PRODS CORP 98 E MAIN MIDDLEVILLE MICH  
 Whitehead (Jud) Heater Co 4111 Broadway Oakland Cal

### ▶ HEATING CONTROLS

BARBER-COLMAN CO 20 MILL ROCKFORD ILL  
 BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL  
 Bessan Engineering Co 2528 Overlook Rd Cleveland 8 Ohio  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
 CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL  
 Detroit Controls Co 5900 Trumbull Av Detroit 8 Mich  
 General Controls Co Box 3517 Grand Central Sta Glendale 1 Cal  
 GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL  
 Hoffman Specialty Co 1901 York Indianapolis 7 Ind  
 IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
 McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill

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Meroid Corp 4201 W Belmont Av Chicago 41 Ill  
 MINNEAPOLIS-HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN  
 National Radiator Co 223 Central Av Johnson Pa  
 Paragon Electric Co 1606 12th Two Rivers Wis  
 Penn Controls Inc Goshen Ind  
 Perfex Corp 500 W Oklahoma Milwaukee Wis  
 Powers Regulator Co 3400 Oakton Skokie Ill  
 Robertshaw-Fulton Controls Co Robertshaw Thermostat Div Youngwood Pa  
 Sareotherm Controls Inc Empire State Bldg New York 1 NY  
 Sorenz Prods Corp Schiller Park Ill  
 Spencer Thermostat Div Metals & Controls Corp 30 Forest Attleboro Mass  
 Taco Heaters Inc 137 South Providence RI  
 Taylor Instrument Cos Rochester NY  
 Webster (Warren) & Co 17th & Federal Camden 5 NJ  
 WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL  
 White Rodgers Electric Co 1209 Cass Av St Louis 6 Mo  
 Young Regulator Co 5209 Euclid Av Cleveland 3 Ohio

### ▶ HEATING SYSTEMS, BASEBOARD

AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA  
 Anchor Div Stratton & Terstege Co 300 Culbertson Av Box 311 New Albany Ind  
 Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 BURNHAM CORP BOILER DIV 2 MAIN IRVINGTON NY  
 BUSH MFG CO 179 SOUTH ST WEST HARTFORD 10 CONN  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
 CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL  
 DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL  
 ELECTRIGLAS CORP NEW BRIDGE & WINDSOR RDS BERGENFIELD NJ  
 Fedders-Quigan Corp Lalor & Hancock Trenton NJ  
 General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md  
 GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND  
 Moore Dry Kiln Co 1220 W State Jacksonville Fla  
 National Radiator Co 223 Central Av Johnson Pa  
 Nesbitt (John J) Inc Stateroad 6 Pa  
 Premier Furnace Co Box 150 Dowagiac Mich  
 Radiant-Ray Radiation Inc 900 W Main New Britain Conn  
 Rittling Corp Rand Bldg Buffalo 3 NY  
 Utica Radiator Corp 2201 Dwyer Av Utica NY  
 VULCAN RADIATOR CO BOX L STA A HARTFORD CONN  
 Webster (Warren) & Co 17th & Federal Camden 5 NJ  
 Weil-McLain Co 641 W Lake Chicago Ill  
 WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL  
 Young Radiator Co 709 S Marquette Racine Wis

### ▶ HEATING SYSTEMS, ELECTRIC

Anchor Div Stratton & Terstege Co 300 Culbertson Av Box 311 New Albany Ind  
 Electrend Prods Corp Box 110 St Joseph Mich  
 ELECTRIGLAS CORP NEWBRIDGE & WINDSOR RDS BERGENFIELD NJ  
 ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY  
 WESIX ELECTRIC HEATER CO 390 FIRST SAN FRANCISCO 5 CAL

### ▶ HEATING SYSTEMS, HOT WATER OR STEAM

ALDRICH CO WYOMING ILL  
 AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA  
 Anchor Div Stratton & Terstege Co 300 Culbertson Av Box 311 New Albany Ind  
 BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL  
 Brower Mfg Co Box 251 Quincy Ill  
 Brownell Co 321 N Findlay Dayton 1 Ohio  
 BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND OHIO  
 BURNHAM CO BOILER DIV 2 MAIN IRVINGTON NY  
 BUSH MFG CO 179 SOUTH ST WEST HARTFORD 10 CONN  
 Century Engineering Corp 401 3rd SE Cedar Rapids Iowa  
 Cleveland Steel Prods Co 15801 Brookpark Rd Cleveland 11 Ohio

Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
 Coal-O-Matic Stoker Co Main St Trucksville Pa  
 CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL  
 DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY  
 DUNHAM (C A) CO 400 W MADISON CHICAGO 6 ILL  
 Fedders-Quigan Corp Labor & Hancock Trenton NJ  
 General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md  
 GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ  
 General Fittings Co 123 Georgia Av Providence 5 RI  
 Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass  
 Hedges-Walsh-Weldner Div Combustion Engineering Superheater Inc 208 Madison Av New York 16 NY  
 Heil Co 3000 W Montana Milwaukee 1 Wis  
 Hotstream Heater Co 2363 E 69th Cleveland 4 Ohio  
 International Heater Co Utica 2 NY  
 IRON FIREMAN MFG CO 3170 W 106TH CLEVELAND 11 OHIO  
 JOHNSON (S T) CO 940 ARLINGTON OAKLAND CAL  
 Kewanee-Ross Corp 101 Franklin Kewanee Ill  
 Kresno-Stamm Mfg Corp 400 Commercial Av Palisades Park NJ  
 Lambert Boiler & Mfg Co Chattanooga 1 Tenn  
 McCord Corp Riopelle at East Grand Blvd Detroit Mich  
 Mueller Climacroc Corp 2005 W Oklahoma Milwaukee 7 Wis  
 Munroe (R) & Sons Mfg Corp Smallman at 23rd Pittsburgh 22 Pa  
 Murray (D J) Mfg Co 1024 Third Wausau Wis  
 National Radiator Co Johnstown Pa  
 Norge Heat Div Borg-Warner Corp 672 E Woodbridge Detroit 26 Mich  
 Penn Boiler & Burner Mfg Corp Fruitville Rd Lancaster Pa  
 Poesiro Mfg Corp 38 Keer Av Newark 5 NJ  
 RICHMOND RADIATOR CO BOX 111 METUCHEN NJ  
 ROBERTS-GORDON APPLIANCE CORP 41 CENTRAL AV BUFFALO 6 NY  
 Seattle Boiler Wks Inc 5237 E Marginal Way Seattle 4 Wash  
 Taco Heaters Inc 137 South St Providence RI  
 THRUSH (H A) CO PERU IND  
 Trade Co 3rd & Cameron LaCrosse Wis  
 Triplex Heating Specialties Co Box 33 Peru Ind  
 United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn  
 UNITED STATES RADIATOR CORP BUHL BLDG DETROIT 31 MICH  
 Utica Radiator Corp 2201 Dwyer Av Utica NY  
 Wayne Home Equipment Co 801 Glasgow Ft Wayne Ind  
 Webster (Warren) & Co 17th & Federal Camden NJ  
 Weil-McLain Co 641 W Lake Chicago Ill  
 Will-Burt Co 12 Ray Orville Ohio  
 Williams Oil-O-Matic Div Eureka-Williams Co 1101 E Bell Bloomington Ill  
 YORK-SHIPLEY INC BOX 349 YORK PA

### ▶ HEATING SYSTEMS, RADIANT

Anchor Div Stratton & Terstege Co 300 Culbertson Av Box 311 New Albany Ind  
 BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL  
 Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND OHIO  
 BUNNY TUBING CO 8109 E JEFFERSON DETROIT MICH  
 Cannelton Sewer Pipe Co Cannelton Ind  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
 ELECTROMODE CORP 45 CROUCH ROCHESTER 3 NY  
 GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND  
 Homes Inc Ceil Heat Div 5212 Hemberg Dr Knoxville Tenn  
 Mendows (W R) Inc 2 Kimball Elgin Ill  
 Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
 National Radiator Co 223 Central Av Johnstown Pa  
 Reflectotherm Inc 26 E University Av Cincinnati 19 Ohio  
 Rochester Prods Div GM 1000 Lexington Rochester NY  
 Taco Heaters Inc 137 South St Providence RI  
 Thermoray Corp 141 E 44th New York 17 NY  
 THRUSH (H A) & CO PERU IND  
 Utica Radiator Corp 2201 Dwyer Av Utica NY

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**▶ HEATING SYSTEMS, RADIANT PANELS**

**AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN**  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Cannelton Sewer Pipe Co Inc 4th & Washington Cannelton Ind  
Clow James B & Sons 201-299 N Talman Av Chicago 80 Ill  
Continental Radiant Glass Heating Corp 521 Fifth Av New York 17 NY  
**ELECTRIGLAS CORP NEW BRIDGE & WINDSOR RDS BERGENFIELD NJ**  
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill  
Homes Inc Cecil Heat Div 5213 Homburg Dr Knoxville Tenn  
Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
United States Rubber Co 1230 Av of the Americas New York 20 NY

**▶ HEATING SYSTEMS, WARM AIR**

American Foundry & Furnace Co 125 N McClun Bloomington Ill  
American Gas Machine Co 595 Front Albert Lea Minn  
Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
Armstrong Furnace Co 851 W 3rd Av Columbus Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
**BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC 17825 ST CLAIR CLEVELAND OHIO**  
Carrier Corp 302 S Geddes Syracuse NY  
Century Engineering Corp 401 Third SE Cedar Rapids Iowa  
Chicago Down Draft Furnace Co 321 S Sangamon Chicago Ill  
Coal-O-Matic Stoker Co Main St Trucksville Pa  
**COLEMAN CO INC 250 N ST FRANCIS WICHITA 1 KAN**  
Conco Engineering Wks Div Conkey (H D) Co Mendota Ill  
Corvaire Heater Corp Hanna Bldg Cleveland Ohio

**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
Day & Night Mfg Div Affiliated Gas Equipment Inc 8 Shamrock Av Monrovia Cal  
Delta Heating Corp 1 Cole Trenton 8 NJ  
Detroit-Michigan Stove Co 6900 E Jefferson Detroit Mich  
Duo-Therm Div Motor Wheel Corp Mt Hope & Washington Lansing 3 Mich  
**ELECTROMODE CORP 45 CROUCH ROCH-ESTER 3 NY**  
Excelsior Stove & Mfg Co Quincy Ill  
Fluid Heat Div Anchor Post Prods Inc Baltimore Md  
Forest City Foundries Inc 2500 W 27th Cleveland Ohio  
Fox Furnace Co Elyria Ohio  
Front Rank Mfg Co Div Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md  
**GENERAL ELECTRIC CO AIR CONDITIONING DIV 5 LAWRENCE BLOOMFIELD NJ**  
General Motors Corp Lyell & Whitney Rochester NY  
Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass  
Henry Furnace Co Medina Ohio  
Hoffman Specialty Co 1001 York Indianapolis 7 Ind  
Holland Furnace Co Holland Mich  
Holly Mfg Co 875 S Arroyo Pkwy Pasadena 2 Cal  
International Heater Co Utica 2 NY  
**IRON FIREMAN MFG CO 3176 W 106TH CLEVELAND 11 OHIO**  
**JACKSON & CHURCH CO 321 N HAMILTON SAGINAW MICH**  
**KAUSTINE FURNACE & TANK CO 1492 WASHINGTON AV PERRY NY**  
Kresky Mfg Co 2nd & "H" Sts Petaluma Cal  
Kresno-Stamm Mfg Co 409 Commercial Av Palisades Park NJ  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
**LITTLE (H C) BURNER CO BOX 60 SAN RAFAEL CAL**  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
**MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY**  
Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 7 Wis  
Norge-Heat Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich

**NORMAN PRODS CO 1150 CHESAPEAKE COLUMBUS 12 OHIO**

**Norman PRODUCTS COMPANY**  
1150 Chesapeake Avenue  
Columbus 12, Ohio



**Manufacturers of a Complete Line of Gas Heating and Air Conditioning Equipment.**

Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Oakland Foundry Co Belleville Ill  
Patten (J V) Co 550 DeKalb Av Sycamore Ill  
Payne Furnace & Supply Co 338 N Foothill Blvd Beverly Hills Cal  
Penn Boiler & Burner Mfg Co Fruitville Rd Lancaster Pa  
**PERFECTION STOVE CO 7609 PLATT AV CLEVELAND 4 OHIO**  
Persiro Mfg Corp 38 Keer Av Newark 5 NJ  
Premier Furnace Co Box 150 Dowagiac Mich  
Quiet Automatic Burner Corp Montclair NJ  
**REZNOR MFG CO MERCER PA**  
**RICHMOND RADIATOR CO BOX 111 MERTUCHEN NJ**  
Royal Jet Inc 1024 W Westminster Alhambra Cal  
Schelm Bros Inc 201 Anna East Peoria 8 Ill  
Silent Sioux Corp 208 W College Av Orange City Ia  
Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Elyria Ohio  
**SURFACE COMBUSTION CORP 2375 DORR TOLEDO 1 OHIO**  
Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio  
Wayne Home Equipment Co Inc 801 Glasgow Ft Wayne Ind  
Wheeling Furnace Corp Martins Ferry Ohio  
Williams Oil-O-Matic Div Eureka-Williams Corp 1201 E Bell Bloomington Ill  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**  
**YORK-SHIPLEY INC BOX 349 YORK PA**

**LIME...that is whiter...fresher...more plastic...more uniform!**



**ZIG ZAG BAGS... FROM THE CENTER OF THE WORLD'S PUREST LIME DEPOSIT!**

... and OHIO Autoclaved WHITE FINISHING LIME (Pressure Hydrated-Type S)... OHIO Masons HYDRATED LIME... OHIO Quick-mix MASON'S LIME (Pressure Hydrated-Type S)... OHIO Sanlime INTERIOR COLOR FINISH PLASTER... OHIO Every-ready LIME (in 5 or 10 lb. packages).

**The Ohio Hydrate & Supply Company • Woodville, Ohio**

*"Producers of Lime & Limestone Products for Building, Agriculture & Industry"*

**HINGES, BALL BEARING**

ALMEL-PROUDY INC 819 N BOWMAN AV DANVILLE ILL  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 McKinney Mfg Co 1939 McKinney Pittsburgh 12 Pa  
 Miracle Hinge Co Monticello NY  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL  
 Rixon (Oscar C) Co 4490 W Carroll Chicago Ill  
 STANLEY WKS 111 ELM NEW BRITAIN CONN

**HINGES, BUTT**

Acorn Mfg Co Mansfield Mass  
 Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Cabinet Hdwe Corp 416 S Main Rockford Ill  
 Consolidated Iron Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN  
 Earle Hdwe Mfg Co Noble & Gross Reading Pa  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 Gensco Tools 1830 N Kostner Av Chicago 39 Ill  
 GETTY (H S) & CO INC 3360 N 18TH PHILADELPHIA 40 PA  
 Grand Specialties Co 3101 W Grand Chicago Ill  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Hardware Prods Co Inc 42 Broadway New York 4 NY  
 Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles Cal  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
 Lawrence Bros Sterling Ill  
 MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 NATIONAL LOCK CO 1902 7TH ROCKFORD ILL  
 NATIONAL MFG CO STERLING ILL  
 NO-MORTISE HINGE CORP BOUND BROOK NJ  
 Norwalk Lock Co Div Seral Lock & Hdwe Co 397 Broadway New York 2 NY  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Petko Industries 1107 E 8th Los Angeles 21 Cal  
 RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL  
 RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN  
 Sazer-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
 Sharon Hdwe Mfg Co Sharon Pa  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 STANLEY WKS 111 ELM NEW BRITAIN CONN

**HINGES, CONTINUOUS**

HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Knappe & Vogt Mfg Co 658 Richmond NW Grand Rapids Mich  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 NATIONAL LOCK CO 1902 7TH ROCKFORD ILL  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 STANLEY WKS 111 ELM NEW BRITAIN CONN

**HINGES, FLOOR**

Bommer Spring Hinge Co Landrum SC  
 Chicago Spring Hinge Co 1500-02 Carroll Av Chicago Ill  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis  
 Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
 NATIONAL MFG CO STERLING ILL  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY

PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
 Shelby Metal Prods Co Shelby Ohio  
 Shelby Spring Hinge Co Shelby Ohio  
 STANLEY WKS 111 ELM NEW BRITAIN CONN

**HINGES, GATE**

Acorn Mfg Co Mansfield Mass  
 Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal  
 Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
 Chicago Spring Hinge Co 1500 Carroll Av Chicago 7 Ill  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN  
 Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
 KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA ILL  
 Lawrence Bros Sterling Ill  
 MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA  
 Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis  
 NATIONAL MFG CO STERLING ILL  
 RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
 STANLEY WKS 111 ELM NEW BRITAIN CONN  
 WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

**HINGES, INVISIBLE**

American Cabinet Hdwe Corp 416 S Main Rockford Ill  
 NATIONAL LOCK CO 1902 7TH ROCKFORD ILL  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL  
 SOSS MFG CO 2177 HOOVER RD BOX 38 HARPER STA DETROIT MICH  
 STANLEY WKS 111 ELM NEW BRITAIN CONN  
 WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH

**HINGES, SPRING, DOOR**

American Cabinet Hdwe Corp 416 S Main Rockford Ill  
 Bommer Spring Hinge Co Landrum SC  
 Chicago Spring Hinge Co 1500-02 Carroll Av Chicago 7 Ill  
 Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Lawrence Bros Sterling Ill  
 Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis  
 Miracle Hinge Co Monticello NY  
 NATIONAL MFG CO STERLING ILL  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN  
 Sharon Hdwe Mfg Co Sharon Pa  
 Shelby Spring Hinge Co Shelby Ohio  
 STANLEY WKS 111 ELM NEW BRITAIN CONN

**HINGES, STRAP**

Acorn Mfg Co Mansfield Mass  
 Brainerd Mfg Co East Rochester NY  
 Champion Hdwe Co Geneva Ohio  
 Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio  
 CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN  
 DEXTER LOCK CO SUBSIDIARY NATIONAL BRASS CO 1409 MADISON AV SE GRAND RAPIDS 2 MICH  
 Eron Mfg Co 2368 N Elston Av Chicago 14 Ill  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
 FRANTZ MFG CO 301 W 3RD STERLING ILL  
 Gensco Tools 1830 N Kostner Av Chicago 39 Ill  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
 HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO  
 Johnson Industries Inc 2112 S 7th St Louis 4 Mo

MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA  
 NATIONAL LOCK CO 1902 7TH ROCKFORD ILL  
 NATIONAL MFG CO STERLING ILL  
 Old Guilford Forge Guilford Conn  
 Peters (James) & Son 1904 N Front Philadelphia Pa  
 Reflecto Letters 411 E 101st New York 29 NY  
 RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL  
 Sharon Hdwe Co Sharon Pa  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
 STANLEY WKS 111 ELM NEW BRITAIN CONN  
 WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

**HOISTS, CHAIN**

Chisholm Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY  
 Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio  
 Coffing Hoist Co 800 Walters Danville Ill  
 Moore Dry Kiln Co 1220 W State Jacksonville 1 Fla  
 National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio  
 Reading Crane & Hoist Corp 2100 Adams Reading Pa  
 Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio  
 Round Chain Cos Broadway Chainercraft Rd Cleveland 5 Ohio  
 Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
 Ryerson (Joseph T) & Son 2588 W 10th Chicago 8 Ill  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore  
 Wright Hoist Div American Chain & Cable Co York Pa  
 YALE & TOWNE MFG CO 11500 ROOSEVELT BLVD PHILADELPHIA PA

**HOISTS, ELECTRIC**

American Chain & Cable Co Inc 829 Connecticut Av Bridgeport 2 Conn  
 American Engineering Co 2446 Aramingo Av Philadelphia 25 Pa  
 Brady Conveyors Corp 24 W Jackson Blvd Chicago 4 Ill  
 Chisholm-Moore Hoist Div Columbus-McKinnon Chain Corp Fremont Av Tonawanda NY  
 Coffing Hoist Co 800 Walters Danville Ill  
 Cohn (E) & Sons 900 "L" St SW Cedar Rapids Iowa  
 Detroit Hoist & Machine Co 8207 Morrow Detroit 11 Mich  
 Electro-Lift Inc 30 Church New York 7 NY  
 King Mfg Corp 3158 W Chicago Av Chicago 22 Ill  
 Reading Crane & Hoist Corp 2100 Adams Reading Pa  
 Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn  
 Round Chain Cos Broadway & Chainercraft Rd Cleveland 5 Ohio  
 Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
 Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich  
 Stimmel Winch Co Inc 37-24 33rd Long Island City 1 NY  
 Universal Hoist & Mfg Co Cedar Falls Iowa  
 Whiting Corp 16516 Lathrop Av Harvey Ill  
 Wright Hoist Div American Chain & Cable Co York Pa

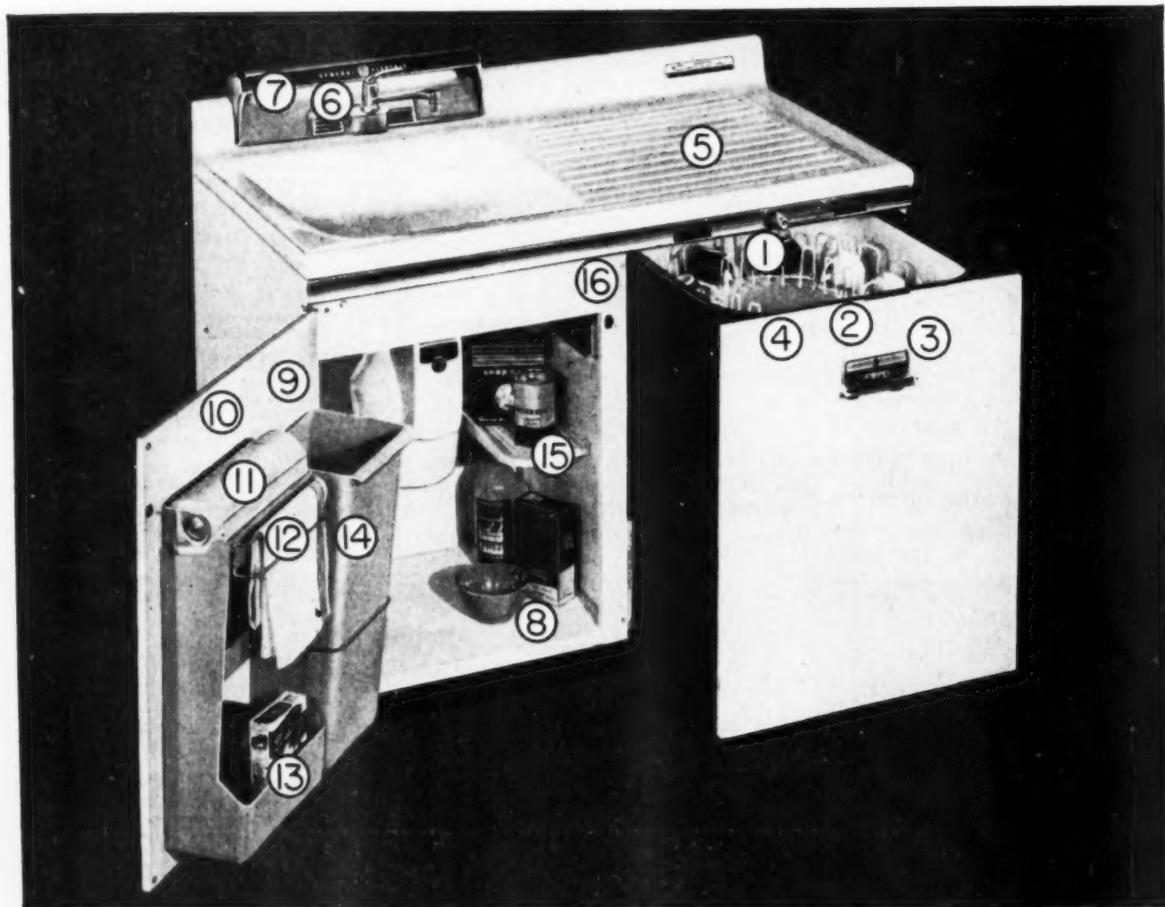
**HOISTS, MECHANICAL POWERED**

ALLIS CHALMERS MFG CO 1126 S 70TH MILWAUKEE WIS  
 American Hoist & Derrick Co St Paul Minn  
 C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis  
 Cleveland Tramrail Div Cleveland Crane & Engineering Co 5866 E 289th Wickliffe Ohio  
 Clyde Iron Wks Inc 29th Av & W Washington Duluth 1 Minn  
 Coffing Hoist Co 800 Walters Danville Ill  
 CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA  
 Downs Craie & Hoist Co 540 W Vernon Av Los Angeles 27 Cal  
 Electro Lift Inc 30 Church New York 7 NY  
 Essick Mfg Co 1950 S Santa Fe Los Angeles Cal  
 Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa  
 Gifford-Wood Co 1 Hudson Av Hudson NY  
 HARNISCHFEGGER CORP 4400 W NATIONAL AV MILWAUKEE 14 WIS  
 Hyster Co 2902 NE Clackamas Portland 8 Ore  
 Jacker Machine Co 500 W Spring Columbus 1 Ohio  
 King Mfg Corp 3158 W Chicago Av Chicago 22 Ill

# Big news from G. E. for

# 1 Build these profit-

## New feature-packed 48" Electric Sink



General Electric's new custom model Electric Dishwasher-Sink changes the sink area in new homes from a work center to the glamour spot of the kitchen.

Let this feature-packed new appliance add the customer appeal you need for quick sales of your new homes.

1. New improved dishwasher racks. Amazing capacity! Easiest to load. No racks to lift or shift!
2. New improved dishwasher detergent cup—optional second wash. Cleanest, most sanitary dishwashing possible.
3. Selective control with Tel-a-Wash lights shows stages of cycle. Control provides completely automatic or manual operation as desired. Drying cycle can be used as *plate warmer!*
4. New silverware basket. Greater capacity. Holds full day's load. Silver loaded "points down" for safety and convenience.!
5. New sink top—specially designed "no-drip" edge.!
6. New single-control faucet, back-mounted for easy cleaning.
7. New built-in fluorescent light over sink bowl.
8. New and bigger under-sink storage.
9. Under-sink lighting—automatic, door operated.
10. Utility door—holds many accessories.
11. Convenient paper towel dispenser.
12. Special rack for hand towels.
13. Special racks for soaps and detergents.
14. Convenient, easily removable trash basket.
15. Extra intermediate shelf—specially for scouring materials.
16. Automatic touch latch on the door.

# sales-minded builders!

makers into your homes!



# 2

## New low cost Disposall®

Introducing the new FC-20, at a price you, as a builder can't afford to overlook!

Big capacity. Continuous feed. Quick, easy installation. Removable plug for dishwasher drain connection. †

The FC-20 joins the de luxe models FA-4 and FA-45. De luxe models feature safety Twistop control, and written 5-year customer protection plan.

# 3

## New variety in Dishwasher designs

Even one with a wood front!

What style does your customer want? G.E. has it! Models that fit to the right or left of sink! Models on wheels. Even models with wood fronts in knotty pine, birch, mahogany or oak!

Every model is a spacesaving under-counter model. 24" wide. Built-in models are pre-plumbed, easy to install. Free-standing model, with separate top, is also available.

Get more information. See G-E catalogue in Sweet's file, see your G-E distributor, or send this coupon.



General Electric Company  
Electric Sink & Cabinet Department  
Appliance Park, Louisville, Ky.

Please send me  
... detailed information on Disposalls  
... detailed information on Dishwashers  
... name of nearest G-E distributor.

Name.....  
Street.....  
City..... State.....

GENERAL  ELECTRIC

Lewis-Shepard Prods Inc 125 Walnut Water-  
town 72 Mass  
Louden Machinery Co 941 S Court Fairfield  
Iowa  
Market Forge Co 35 Garvey Everett 49 Mass  
National Screw & Mfg Co 2440 E 75th  
Cleveland 4 Ohio  
Novo Engine Co Lansing 5 Mich  
Ohio Hoist & Mfg Co Broadway & Chain-  
craft Rd Cleveland Ohio  
Reading Crane & Hoist Corp 2100 Adams  
Reading Pa  
Robbins & Myers Inc 1345 Lagonda Av  
Springfield Ohio  
Round Bridgeport Chain & Mfg Co 964 Cres-  
cent Av Bridgeport Conn  
Round (David) & Son Inc Box 883 Cleveland  
22 Ohio  
Shepard Niles Crane & Hoist Corp 410  
Schuyler Av Montour Falls NY  
Silent Hoist & Crane Co 875 63rd Brooklyn  
20 NY  
Smith's Hoist & Mfg Co Box 115 Cassopolis  
6 Mich  
Stimmel Winch Co Inc 37-24 33rd Long Is-  
land City 1 NY  
Vulcan Iron Wks Co 1023 Stout Denver 2  
Colo  
Washington Iron Wks Seattle 4 Wash  
Whiting Corp Harvey Ill  
Wright Hoist Div American Chain & Cable  
Co Inc 1100 E Princess York Pa  
**YALE & TOWNE MFG CO HENRY ST  
STAMFORD CONN**

### ▶ HOISTS, PORTABLE

American Hoist & Derrick Co 635 Robert  
St Paul 4 Minn  
Chicago Pneumatic Tool Co 6 E 44th New  
York 17 NY  
Clipper Mfg Co 2800 Warwick Kansas City  
Mo  
Coffing Hoists Co 800 Walters Danville Ill  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**  
Downs Crane & Hoist Co 540 W Vernon Av  
Los Angeles 37 Cal  
Electro-Lift Inc 30 Church New York 7 NY  
King Mfg Corp 3518 W Chicago Av Chicago  
22 Ill  
Market Forge Co 35 Garvey Everett 49 Mass  
Reading Crane & Hoist Corp 2100 Adams  
Reading Pa  
Round (David) & Son Inc Box 883 Cleveland  
22 Ohio  
Stimmel Winch Co Inc 37-24 33rd Long Is-  
land City 1 NY

### ▶ HOISTS, SKIP

**ALLIS-CHALMERS MFG CO 1126 S 70TH  
MILWAUKEE WIS**  
American Hoist & Derrick Co 635 Robert St  
Paul Minn  
Apply (J W) & Son Inc 831 9th N St  
Petersburg Fla  
**BESSER MFG CO ELM ST ALPENA MICH**  
Brady Conveyors Corp 20 W Jackson Chi-  
cago 4 Ill  
Downs Crane & Hoists Co 540 W Vernon Av  
Los Angeles 37 Cal  
Fairfield Engineering Co 324 Barnhart Ma-  
rion Ohio  
Fleming Mfg Co Cuba Mo  
Fleming Mfg Co Inc 4985 Fyler Av St Louis  
9 Mo  
Gifford-Wood Co 1 Hudson Av Hudson NY  
Godfrey Conveyor Co 1301 Wolf Elkhart Ind  
Hyster Co 2902 NE Clackamas Portland 8  
Ore  
Jeffrey Mfg Co 935 N 4th Columbus Ohio  
Link-Belt Co 301 W Pershing Chicago 9 Ill  
Nordberg Mfg Co Chase & Oklahoma Aves  
Milwaukee 7 Wis  
Silent Hoist & Crane Co 875 63rd Brooklyn  
20 NY

### ▶ HOISTS, TRUCK

Anthony Co Streator Ill  
Cenco Industries Inc Gallion Ohio  
Gallion Allsteel Body Co Gallion Ohio  
Heil Co 3000 W Montana Milwaukee 2 Wis  
Hercules Steel Prods Corp Gallion Ohio  
Hyster Co 2902 NE Clackamas Portland 8  
Ore  
Kwik-Mix Co Port Washington Wis  
Little Giant Prods Inc Peoria 3 Ill  
Market Forge Co 35 Garvey Everett 49 Mass  
Marion Metal Prods Co Cheney Av at Otis  
Marion Ohio  
Perfection Steel Body Co Gallion Ohio  
St Paul Hydraulic Hoist Div Wood (Gar)  
Industries Inc 2207 University Av SE Min-  
neapolis 14 Minn  
Saagen Derrick Co 3101 W Grand Av Chi-  
cago 22 Ill  
Shaw Box Crane & Hoist Div Manning Max-  
well & Moore Inc 414 Broadway Muskegon  
Mich  
Silent Hoist & Crane Co 875 63rd Brooklyn  
20 NY  
Stimmel Winch Co Inc 37-24 33rd Long Is-  
land City 1 NY  
Wood (Gar) Industries Inc Detroit Mich  
**YALE & TOWNE MFG CO 11590 ROOSE-  
VELT BLVD PHILADELPHIA PA**

### ▶ HOLDERS, SAND PAPER

**RED DEVIL TOOLS 130 COIT IRVINGTON  
NJ**

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Amara Society Amara Iowa  
American Refrigerator & Machine Co North  
Minneapolis Minn  
Ben-Hur Mfg Co 634 E Keefe Av Milwaukee 12  
Wis  
Coolerator Corp Box 399 Duluth Minn  
**CROSLEY DIV AVCO MFG CORP 1329 AR-  
LINGTON CINCINNATI OHIO**  
Deepfreeze Div Motor Prods Corp North  
Chicago Ill  
DeLaval Separator Co New York NY  
Esco Cabinet Co E Biddle at RR West Chester  
Pa  
Fogel Refrigerator Co 5400 Endom Phila-  
delphia Pa  
Frigidaire Div General Motors Corp 400  
Taylor Dayton 1 Ohio  
**GENERAL CHEF 4536 E DUNHAM LOS  
ANGELES 23 CAL**  
**GENERAL ELECTRIC CO MAJOR APPLI-  
ANCE DIV 310 W LIBERTY LOUIS-  
VILLE 2 KY**  
General Implement Corp Terminal Tower  
Cleveland 4 Ohio  
General Refrigerator Corp 678 Broadway  
New York 12 NY  
Gibson Refrigerator Co 515-615 W Williams  
Greenville Mich  
Gilfillan Bros Inc Venice Blvd at Berendo  
Los Angeles Cal  
**HOPPOINT CO 5600 W TAYLOR CHICAGO  
44 ILL**  
International Harvester Co 180 N Michigan  
Av Chicago 1 Ill  
Jordan Refrigerator Co 58th & Grays Av  
Philadelphia 43 Pa  
**KELVINATOR DIV NASH-KELVINATOR  
CO 14250 PLYMOUTH RD DETROIT 32  
MICH**  
Kennedy Co 1620 Dime Bldg Detroit 26 Mich  
King Refrigerator Corp 76-02 Woodhaven  
Blvd Glendale LI NY  
Lindemann (A J) & Hoverson Co 601 W  
Cleveland Av Milwaukee 15 Wis  
Masterfreeze Corp Sister Bay Wis  
Maytag Co Newton Iowa  
Norze Div Borg-Warner Corp Appliance Div  
Room 234 Merchandise Mart Plaza Chicago  
Ill  
Phileo Corp Tioga & "C" Sts Philadelphia  
34 Pa  
Portable Elevator Mfg Co Bloomington Ill  
Quifrez Inc Fond Du Lac Wis  
Robbins & Burke Inc Cambridge Mass  
Seeger-Sunbeam Corp St Paul Minn  
**SERVEZ INC 119 N MORTON AV EVANS-  
VILLE 20 IND**  
Sub-Zero Freezer Co Rice Lake Wis  
**THOR CORP 2115 S 54TH AV CHICAGO 50  
ILL**  
Tyler Refrigerator Corp Lake St Niles  
Mich  
Universal Major Electric Appliance Co Box  
119 Lima Ohio  
Victor Prods Corp 901 Pope Av Hagerstown  
Md  
Ward Refrigerator & Mfg Co 6501 S Alameda  
Los Angeles Cal  
**WESTINGHOUSE ELECTRIC CORP ELEC-  
TRIC APPLIANCE DIV 246 E 4TH  
MANSFIELD OHIO**  
Wilson Refrigerator Inc Glenwood Av  
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Carborundum Co Niagara Falls NY

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Columbus Plastic Prods Inc 1625 W Mount  
Columbus 4 Ohio

### ▶ HOOKS & EYES, GATE

**FRANTZ MFG CO 301 W 3RD STERLING  
ILL**  
Judd (H L) Co 87 Chambers New York 7 NY  
Kee (F D) Mfg Co 300 Park Av Beatrice  
Neb  
Larson (Charles O) Co Ave "G" & C&NW  
Ry Sterling Ill  
**SARGENT & CO 45 WATER NEW HAVEN  
9 CONN**  
Washburn Co 28 Union Worcester 8 Mass

### ▶ HOOKS & EYES, SCREW

Astrup Co 2987 W 25th Cleveland 13 Ohio  
**FRANTZ MFG CO 301 W 3RD STERLING  
ILL**  
**HAGER (C) & SONS HINGE MFG CO 139  
VICTOR ST LOUIS 4 MO**  
Judd (H L) Co 87 Chambers New York 7 NY  
Kees (F D) Mfg Co 700 Park Av Beatrice  
Neb  
Larson (Charles O) Co Av "G" & C&NW  
Ry Sterling Ill

Lawrence Bros Sterling Ill  
**NATIONAL LOCK CO 1902 7TH ROCKFORD  
ILL**  
National Screw & Mfg Co 2440 E 75th Cleve-  
land 4 Ohio  
United Screw & Bolt Corp Cleveland Div  
3590 W 8th Cleveland 2 Ohio  
Washburn Co 28 Union Worcester Mass

### ▶ HOPPERS, AUTOMATIC WEIGHING

Butler Bin Co 945 Blackstone Av Waukesha  
Wis  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**  
Johnson (C S) Co Box 71 Champaign Ill  
Toledo Scale Co 1009 Telegraph Rd Toledo 1  
Ohio  
Worthington Pump & Machinery Corp Ran-  
some Div Dunellen NJ

### ▶ HOSE, AIR COMPRESSOR

Aeme Rubber Mfg Co Box 1001 Trenton NJ  
Boston Woven Hose & Rubber Co Box 1071  
Boston 3 Mass  
Broadway Rubber Mfg Co 529 E Broadway  
Louisville 2 Ky  
Chicago Pneumatic Tool Co 6 E 44th New  
York 17 NY  
Cincinnati Rubber Mfg Co 4900 Franklin  
Av Cincinnati 12 Ohio  
Continental Rubber Wks Toledo Pa  
De Vilbiss Co 300 Phillips Toledo 1 Ohio  
Gates Rubber Co 999 S Broadway Denver 17  
Colo  
Goodall Rubber Co 5 S 36th Philadelphia 4  
Pa  
Goodrich (B F) Co 500 S Main Akron 18  
Ohio  
Hewitt Rubber Div Hewitt-Robins Inc Cen-  
tral & Kensington Aves Buffalo 3 NY  
Raybestos-Manhattan Inc Manhattan Rubber  
Div 61 Willet Passaic NJ  
Republic Rubber Div Lee Rubber & Tire  
Corp Albert St Youngstown 1 Ohio  
Thermoid Co 200 Whitehead Rd Trenton 6  
NJ  
Union Rubber & Asbestos Co Trenton 6 NJ  
United States Air Compressor Co 5300 How-  
ard Av Cleveland Ohio  
United States Rubber Co 1230 Av of the  
Americas New York 20 NY

### ▶ HYDRANTS

American Foundry & Mfg Co 1015 Herbert  
St Louis 7 Mo  
Columbiana Pump Co Columbiana Ohio  
**CRANE CO 836 S MICHIGAN AV CHICAGO  
5 ILL**  
Eddy Valve Co Waterford NY  
Heller-Allen Co Napoleon Ohio  
Knights (James) Co Wells & Church Sand-  
wich Ill  
Murdock Mfg & Supply Co 426-20 Plum Cin-  
cinnati 2 Ohio  
Woodford Hydrant Co Des Moines Iowa

### ▶ HYDRAULIC TAIL GATES

Anthony Co Inc Streator Ill  
Cenco Industries Inc Gallion Ohio  
Day Co 306 W 69th Chicago 21 Ill  
Fritcham Trailer Co Detroit Mich  
Heil Co 3000 W Montana Milwaukee 2 Wis  
Hercules Steel Prods Corp Gallion Ohio  
Marion Metal Prods Co Cheney Av at Otis St  
Marion Ohio  
Perfection Steel Body Co Gallion Ohio

### ▶ INCINERATORS

Adams Co Box 268 Duluque Iowa  
American Incinerator Corp 6441 Hastings  
Detroit 11 Mich  
Bovser Inc Incinerator Div 4209 Sycamore  
Cairo Ill  
Brule Incinerator Corp 407 S Dearborn  
Chicago 5 Ill  
Cole Hot Blast Mfg Co 3817 S Racine Av  
Chicago 9 Ill  
Coraire Heater Corp 1422 Euclid Av Cleve-  
land 15 Ohio  
Cribben & Sexton Co 700 N Sacramento Blvd  
Chicago 12 Ill  
Detroit-Michigan Sloop Co 6900 E Jefferson  
Detroit 7 Mich  
Donley Bros Co 14010 Miles Av Cleveland 5  
Ohio  
Dowagiac Steel Furnace Co Dowagiac Mich  
Duo-Therm Div Motor Wheel Corp Mt Hope  
& Washington Lansing 3 Mich  
Ewing Incinerator Co 5121 N Ravenswood  
Chicago Ill  
Fiske (J W) Iron Wks 78 Park Pl New  
York 7 NY  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Gasinator Mfg Co 2108 Payne Av Cleveland  
Ohio  
Giesher Inc 1900 Kendall NE Washington  
2 DC  
Goder Incinerator Corp 407 S Dearborn  
Chicago 5 Ill

Goder (Joseph) Incinerators 5121 N Ravenswood Chicago 40 Ill  
 Henry Furnace Co Medina Ohio  
 Holland Furnace Co Holland Mich  
 Houston Blow Pipe & Sheet Metal Wks Houston Tex  
 Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill  
 Incinerator Prods Co 667 S Post Av Detroit 17 Mich  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
 Kerner Incinerator Div Morse-Boulger Destructor Co 205 E 42nd New York 17 NY  
 King Stove & Range Co Sheffield Ala  
 Locke Stove Co 111 W 11th Kansas City 5 Mo  
 Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Mueller Climatroc Corp 2005 W Oklahoma Milwaukee 15 Wis  
 Olsen (C A) Mfg Co Filbert St Elyria Ohio  
 Pittsburgh Incinerator Co 131 Beam Way Pittsburgh 11 Pa  
 Seattle Boiler Wks Inc 5237 E Marginal Wy Seattle 4 Wash  
 Spurgon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
 Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY  
 Valley Welding & Boiler Co Calcinator Div 27th & Water Bay City Mich  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis  
 Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

### ▶ INSECTICIDES

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 Azekem Inc Div of Kalo Co 506 Maine Quincy Ill  
 American Agricultural Chemical Co 50 Church New York 7 NY  
 American Cyanamid Co 30 Rockefeller Plaza New York NY  
 American Oil Co American Bldg Baltimore 2 Md  
 Asesto Mfg Corp 131 Wabash Michigan City Ind  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**

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 Bonhide Chemical Co 384 N Genesee Utica 4 NY  
 Boyer Chemical Laboratory Co 2232 S Wabash Chicago 16 Ill  
 Boyle-Midway Inc 22 E 40th New York 16 NY  
 Bridgeport Brass Co 30 Grand Bridgeport 2 Conn  
 California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal  
 Camp Chemical Co Inc 1560-62 82nd Brooklyn 19 NY  
 Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY  
 Carbola Chemical Co 46 Harris Rd Natural Bridge NY  
 Carbolinum Wood Preserving Co 508 W Highland Av Milwaukee 3 Wis  
 Chapman Chemical Co 707 Derman Bldg Memphis 2 Tenn  
 Chemical Supply Co 225 Plymouth Bldg Cleveland 15 Ohio  
 Coopers Creek Chemical Corp West Conshohocken Pa  
 Crescent Prods Co 315 N 14th Terre Haute Ind  
 Doggett-Pfeil Co Springfield NJ  
 Dow Chemical Co Midland Mich  
 Coopers Creek Chemical Corp West Conshohocken Pa  
 Glidden Co 98 Del & Madison Cleveland 2 Ohio  
 Gordon (George C) Chemical Co 1100 Hickory Kansas City 7 Mo  
 Gulf Oil Corp Grant & Seventh Pittsburgh Pa  
 Harris Prods Co Inc Miami Beach Fla  
 Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ  
 Koppers Co Inc Koppers Bldg Pittsburgh Pa  
 Lilly Prods Co Attleboro Mass  
 Linek (O E) Co Inc Route 46 & Valley Rd Clifton NJ  
 Meinhardt (J A) & Co 2622 S Shields Chicago Ill  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
 Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia Pa  
 Phelan-Faust Paint Mfg Co 332 Loughborough Av St Louis Mo  
**PITTSBURGH PLATE GLASS CO 432 PORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Plunkett Chemical Co 3500 S Morgan Chicago Ill

**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 39 MICH**  
 Puritan Chemical Co Peters at Haynes Atlanta 3 Ga  
**PYROFAX GAS CO UNION CARBIDE & CARBON CORP 30 E 42ND NEW YORK 17 NY**  
 Rat Biscuit Co 19 N Limestone Springfield Ohio  
 Rotenone Prods Co 110 Eaton Pl East Orange NJ  
 Schutte Laboratories 910 7th Beaver Falls Pa  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sinclair Refining Co 630 Fifth Av New York NY  
 Socony-Vacuum Oil Co Inc 26 Broadway New York NY  
**SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP 61 BROADWAY NEW YORK 6 NY**  
 Standard Oil Co of Indiana 910 S Michigan Av Chicago Ill  
 Stark (N H) & Co Grafton Wis  
 Swift & Co Plant Food Div 4115 S Packers Chicago 9 Ill  
 Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich  
 United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
 Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

### ▶ INSTRUMENTS, DRAFTING

Dietzgen (Eugene) Co 2425 N Sheffield Av Chicago Ill  
 Eberhard Faber Penell Co 37 Greenpoint Av Brooklyn 22 NY  
 Higgins Ink Co Inc 271 Ninth Brooklyn 15 NY  
 Keuffel & Esser Co 300 Adams Hoboken NJ  
 Loomis Industries Box 442 Berkeley 1 Cal  
 Pickett & Eckel Inc 5 S Wabash Av Chicago 3 Ill  
 Post (Frederick) Co 155 E Ohio Chicago Ill  
 Smith (H E) Co Adrian Mich  
 Universal Drafting Machine Corp 7960 Lorain Av Cleveland 2 Ohio  
**WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA**  
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# MASONRY FINISHES and TREATMENTS



**Sta-Dri Masonry Paint**—Decorates in white and 11 beautiful colors (at no extra cost). Holds 9 foot wall of water without leakage, even if applied inside a basement. Just mix with water and apply with brush or spray. Economical. Resists erosion. Stays white when wet. 5, 25, & 50 lb. packages.



**Sta-Dri Link**—Bonding agent assures lasting bond of plasters and concrete to all surfaces such as wood, glass, metal, glazed tile, hardboard, and slick, painted surfaces (except calcimine type paint), as well as old plaster, stone, concrete, and other masonry. Comes in 1 pt., 1 qt., 1 gal., & 50 gal. sizes.



**Sta-Dri Clear-Coat**—5% silicone water repellent for masonry. One treatment makes water bounce off porous masonry. Does not change natural color or texture. Dries out invisible. Stops efflorescence stains. Apply with brush or spray. Comes in 1 qt., 1 gal., 5 gal., 30 gal., and 55 gal. containers.



**Sta-Dri Instant Water-Stop**—Hydraulic cement that stops existing running water leaks immediately. Quick setting material for plugging holes and leaks in cisterns, silos, pools, and basements. Use with Sta-Dri Paint in solving serious below grade water pressure problems. In 1 lb. and 4 lb. cans.



### Data and Specifications

- MASONRY PAINT
- LINK
- CLEAR-COAT



Complete specifications and data publications about Sta-Dri products will be sent upon request. Use coupon below.

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
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 Bradley (L. R.) & Co 25 W 45th New York 19 NY  
 Bristol Co Waterbury 20 Conn  
 Colloid Equipment Co Inc 19 Murray New York 7 NY  
 Foxboro Co Foxboro Mass  
 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
**MINNEAPOLIS HONEYWELL REGULATOR CO 2747 S 4TH AV MINNEAPOLIS MINN**  
 Moore Dry Kiln Co 1229 W State Jacksonville 1 Fla  
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**BOSFROM-BRADY MFG CO STONEWALL & BAILEY STA ATLANTA GA**  
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 Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill  
 Goldblatt Tool Co 1910 Walnut Kansas City 8 Mo  
 Keuffel & Esser Co 300 Adams Hoboken NJ  
 Post (Frederick) Co 155 E Ohio Chicago Ill  
 Royal Oak Industries Royal Oak Mich  
 Starrett (L. S.) Co 101 Crescent Athol Mass  
**WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA**  
**WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS**

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 Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
 Protective Papers Inc Union Ill  
 Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
 Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
**REFLECTAL CORP 155 E 44TH NEW YORK 17 NY**  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Wilson (Grant) Inc 341 W Jackson Blvd Chicago 4 Ill

## ► INSULATION, BATT OR BLANKET, COTTON FIBER

Barnhardt Mfg Co Charlotte 1 NC  
 Gilman Bros Co Gilman Conn  
 Ins-Cotton Div Taylor Bedding Mfg Co Taylor Tex  
 Janesville Cotton Mills 100 E 69th Cincinnati 16 Ohio  
 Lockport Cotton Batting Co Elmwood Av Lockport NY  
 Standard Cotton Prods Co Flint Mich  
 Taylor Bedding Mfg Co Taylor Tex  
 United States Rubber Co 1230 Avenue of the Americas New York 20 NY

## ► INSULATION, BATT OR BLANKET, COTTON FIBER, ALUMINUM FOIL

Ins-Cotton Div Taylor Bedding Mfg Co Taylor Tex  
 Janesville Cotton Mills 100 E 69th Cincinnati 16 Ohio  
 Lockport Cotton Batting Co Elmwood Av Lockport NY  
 Standard Cotton Prods Co Flint Mich

## ► INSULATION, BATT OR BLANKET, FIBROUS GLASS

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
 Fiber-Glass Div Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio

**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN**  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
**OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Sealrite Insulation Mfg Corp 115 Madison Waukesha Wis  
 Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill  
 US Menzel Plywoods Inc Box 1612 Louisville 1 Ky

## ► INSULATION, BATT OR BLANKET, MINERAL WOOL

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill  
 Asbestos Asphalt Insulation Co 2100 Fullerton Av Chicago 47 Ill  
 Asbestos Co of Texas Div of Philip Carey Mfg Co Box 1082 Houston 1 Tex  
 B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
 Badger Corrugating Co 1801-39 W Av S LaCrosse Wis  
 Baldwin-Hill Co Trenton 2 NJ  
**BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY**  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
 Carney Co Inc 153 Chestnut Mankato Minn  
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 Coast Insulating Prods 2316 San Fernando Rd Los Angeles 5 Cal  
 Corson (G. & W. H.) Inc Plymouth Meeting Pa  
 Eagle-Pieher Co American Bldg Cincinnati 1 Ohio  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**

### FLINTKOTE Insulating Wool

Flintkote Insulating Wool is made of Fiberglas® . . . long glass fibers, extremely lightweight. Can't absorb moisture. Won't rot, rust, mildew . . . or attract vermin. Fire-resistant.

Available in Batts and Roll Blankets . . . smaller sized units, Bantam Batts . . . and Pouring Wool in pellet form.

\*Manufactured by Owens-Corning Fiberglas Co.

**THE FLINTKOTE COMPANY,**  
30 Rockefeller Plaza, New York 20, N.Y.



Forty-Eight Insulations Inc Aurora Ill  
 Huntington Industries Inc 2368 Prospect Memphis Tenn  
 Industrial Prods Co Inc Boswell St Mt Pleasant Tenn  
 Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kans  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Kelley Island Lime & Transport Co 1122 Leader Bldg Cleveland 14 Ohio  
 Lehon Co 4425 S Oakley Chicago 9 Ill  
 Mineral Insulation Co Chicago Ridge Ill  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 National Rock Wool Sales Inc Largo Ind  
 Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
 Riverton Lime & Stone Co Inc Riverton Va  
 Sealrite Insulation Mfg Corp 115 Madison Waukesha Wis  
 Standard Asbestos Mfg Co 860 W Evergreen Av Chicago 22 Ill  
 Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 US Mineral Wool Co So Milwaukee Wis  
 Western Mineral Prods Co 1720 Madison NE Minneapolis Minn

## ► INSULATION, BATT OR BLANKET, WOOD FIBRE

Kimberly-Clark Corp 128 N Commercial Neenah Wis  
 National Plywoods Inc 2710 Throop Chicago Ill  
**PACIFIC LUMBER CO 100 BUSH SAN FRANCISCO CAL**

**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

## ► INSULATION, BLOWING WOOL

Asbestos Asphalt & Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
 B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
 Baldwin-Hill Co 500 Breunig Av Trenton 2 NJ  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Burton (S. T.) Co Builders Bldg Chicago 1 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
 Carney Co Inc 153 Chestnut Mankato Minn  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
 Eagle-Pieher Co American Bldg Cincinnati 1 Ohio  
 Forty-Eight Insulations Inc Aurora Ill  
 Huntington Industries Inc 2368 Prospect Memphis Tenn  
 Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kans  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 P-I-O-Pak Insulation Co Inc Hartland Wis  
 Sealrite Insulation Mfg Co 115 Madison Waukesha Wis  
 Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 US Mineral Wool Co South Milwaukee Wis

## ► INSULATION, BOARD, CORK

**ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA**  
 B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
 Dodge Cork Co Inc Laurel & Manor Lancaster Pa

## ► INSULATION, BOARD, FIBER

Air-O-Cel Co 22000 Woodward Av Detroit 20 Mich  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
 Badger Corrugating Co 1801-39 W Av S LaCrosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC EAST WALPOLE MASS**  
 Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND, CINCINNATI 15 OHIO**  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
**DANT & RUSSELL 711 EQUITABLE BLDG PORTLAND ORE**  
 Davis Plywood Corp 12555 Berea Rd Cleveland 11 Ohio  
 Fire-Tex Insulating Board Co US Natl Bank Bldg Portland Ore  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
**HOMASOTE CO FERNWOOD RD TRENTON 3 NJ**  
**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KEASBEY & MATTISON CO BUTLER AV AMBLER PA**  
 Kimberly-Clark Corp 128 N Commercial Neenah Wis  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
 Rubatex Div Great American Industries Inc Bedford Va  
 Simpson Logging Co White Bldg Seattle 1 Wash  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

**► INSULATION, BOARD, MINERAL WOOL**

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Av Chicago 7 Ill  
**ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA**  
 B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex

AMERICAN BUILDER

CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
Chicago Fire Brick Co 1416 N Elston Chicago 22 Ill  
Coast Insulating Prods 2316 San Fernando Rd Los Angeles 5 Cal  
Corson (G & W H) Inc Plymouth Meeting Pa  
Green (A P) Fire Brick Co Mexico Mo  
JOHNS-MANVILLE 22 E 40TH NEW YORK 16 NY  
Logan-Loug Co 6600 S Central Av Chicago 38 Ill  
OWENS-CORNING - FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY  
Standard Asbestos Mfg Co 860 W Evergreen Chicago 22 Ill

### ► INSULATION, BOARD, REFLECTIVE

Air-O-Cel Co 22000 Woodward Av Detroit 26 Mich  
Angier Corp Fountain St Framingham Mass  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ► INSULATION, GLASS CELLULAR

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill  
B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
PITTSBURGH CORNING CORP 1 GATEWAY CENTER PITTSBURGH 22 PA

### ► INSULATION, GLASS FOAM

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
Standard Asbestos Mfg Co 860 W Evergreen Chicago 22 Ill

### ► INSULATION, GRANULAR FILL, EXPANDED, VERMICULITE, ETC

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill  
Asbestos Supply Co S 10 Bernard Spokane Wash  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Empire Roofing & Insulation Co Tulsa Okla  
Graybeal (C R) & Sons Box 198 Roan Mountain Tenn  
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL  
Intermountain Insulation Co Salt Lake City Utah  
Munn & Steele Inc So Boston Mass  
Perlite Mfg Co Arch St Ext Box 478 Carnegie Pa  
Pyramid Co 5100 Manchester St Louis 10 Mo  
Robinson Insulation Co Box 1419 Great Falls Mont  
Schundler (F E) & Co Inc 504 Railroad Joliet Ill  
Silhrice Corp 5901 W 66th Chicago 38 Ill  
Vermiculite-Northwest Inc 2107 N 34th Seattle Wash  
Vermiculite Prods Corp Washington DC  
Vermiculite Prods Inc 515 Madison Kansas City Mo  
Western Mineral Prods Co 1720 Madison NE Minneapolis Minn  
ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL

### ► INSULATION, LOOSE FILL, GLASS

ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN  
Kelley Island Lime & Transport Co Leader Bldg Cleveland Ohio  
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO

### ► INSULATION, LOOSE FILL, MINERAL WOOL

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill  
Alton Mineral Wool Co 2317 Whittemore Pl St Louis Mo  
American Rock Wool Corp 20 N Wacker Dr Chicago Ill  
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex

B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Baldwin-Hill Co 500 Breunig Av Trenton 2 NJ  
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK NY  
Broadway Rubber Mfg Co 529 E Broadway Louisville 2 Ky  
Burton (S T) Co 228 N LaSalle Chicago 1 Ill  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
Carney Co Inc 153 Chestnut Mankato Minn  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich  
Chicago Fire Brick Co 1416 N Elston Chicago 22 Ill  
Coast Insulating Prods 2316 San Fernando Rd Los Angeles Cal  
Corson (G & W H) Inc Plymouth Meeting Pa  
Eagle-Picher Co American Bldg Cincinnati 1 Ohio  
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL

Insul-Wool Insulation Corp 121 N Dodge Wichita 12 Kan  
JOHNS-MANVILLE 22 E 40TH NEW YORK 16 NY  
Kelley Island Lime & Transport Co 1122 Leader Bldg Cleveland 14 Ohio  
LEON CO 4425 S OAKLEY CHICAGO 9 ILL  
Mineral Insulation Co Chicago Ridge Ill  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
National Rock Wool Sales Inc Largo Ind  
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO  
Plastergon Wall Board Co 195 Philadelphia Av Buffalo 7 NY  
Riverton Lime & Stone Co Inc Riverton Va  
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis  
Standard Asbestos Mfg Co 860 W Evergreen Chicago 22 Ill  
Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
US Mineral Wool Co South Milwaukee Wis

### ► INSULATION, LOOSE FILL, WOOL CELLULOSE

FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
PACIFIC LUMBER CO 100 BUSH SAN FRANCISCO CAL  
Pal-O-Pak Insulation Co Inc Hartland Wis

### ► INSULATION, PLASTIC

Acme Asbestos Covering & Flooring Co 246 N Elizabeth Chicago 7 Ill  
Acme Brick Co Box 425 Ft Worth Tex  
American Phenolic Corp 1830 S 54th Cicero 50 Ill  
B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
Chicago Fire Brick Co 1461 Elston Av Chicago 22 Ill  
Dow Chemical Co 1000 Main Midland Mich  
Mexico Refractories Co Love & Cole Mexico Mo  
Quigley Co 527 Fifth Av New York 17 NY  
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal  
Sprayo-Flake Co 2727 W Irving Park Blvd Chicago Ill  
Standard Asbestos Mfg Co 860 Evergreen Av Chicago 22 Ill

### ► INSULATION, REFLECTIVE

American Flange & Mfg Co Inc 30 Rockefeller Plaza New York NY  
AMERICAN SISALKRAFT COZP ATTLEBORO MASS  
BIRD & SON INC 47 WILSON EAST WALPOLE MASS  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
Gilman Bros 100 Main Gilman Conn  
INFRA INSULATION INC 10 MURRAY NEW YORK NY  
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL  
Kimberly-Clark Corp 128 N Commercial Neenah Wis  
Lockport Cotton Batting Co Elmwood Av Lockport NY  
Meadows (W R) Inc 2 Kimball Elgin Ill  
National Plywoods Inc 2710 Throop Chicago Ill

Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
Protective Papers Inc Union Ill  
REFLECTAL CORP 155 E 44TH NEW YORK 17 NY  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY  
RICKRAFT CO 510 N DEARBORN CHICAGO 10 ILL  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY  
Sall Mountain Co Box 777 Hamilton Ohio  
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis  
Silvercote Prods Inc 161 E Erie Chicago Ill  
Taylor Bedding Mfg Co Taylor Tex  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill

### ► INSULATION, ROOF, DECK

B & B Engineering & Supply Co Inc 2900 Washington Av Box 2531 Houston 1 Tex  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL  
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio  
DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE  
Giehner Inc 1900 Kendall NE Washington 2  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
Porete Mfg Co Porete Av North Arlington NJ  
Simpson Logging Co White Bldg Seattle 1 Wash  
Sprayo-Flake Co 2727 W Irving Park Blvd Chicago Ill  
TECTUM CORP 105 S SIXTH NEWARK OHIO  
Texas Vermiculite Co 303 Brazos Austin Tex  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ► INSULATION, SPRAY-ON

Evercrete Corp 424 W 42nd New York 36 NY  
Green (A P) Fire Brick Co 1108 E Breckinridge Mexico Mo  
Hollinshead (R M) Corp 840 Cooper Camden 2 NJ  
Mexico Refractories Co Love & Cole Mexico Mo  
Minnesota Mining & Mfg Co 900 Fauquier St St Paul 6 Minn  
Sealtite Insulation Mfg Corp 115 Madison Waukesha Wis  
Smith & Kanzler Co E Linden Av Linden NJ  
Sprayo-Flake Insulation Co 2727 W Irving Park Chicago Ill  
Texas Vermiculite Co 303 Brazos Austin Tex  
US Mineral Wool Co South Milwaukee Wis  
Verflex Sales Corporation 115-117 Moonachie Av Carlstadt NJ

### ► INTER-COMMUNICATING SYSTEMS

AUTH ELECTRIC CO INC 34-20 45TH LONG ISLAND CITY 1 NY  
Bell Sound Systems 555 Marion Columbus 7 Ohio  
Connecticut Telephone & Electric Div Great American Industries 700 Britannia Meriden Conn  
Colloid Equipment Co Inc 19 Murray New York 7 NY  
Couch (S H) Co Inc 1 Arlington North Quincy Mass  
DuKane Corp 200 N 11th St Charles Ill  
EDWARDS CO INC POST ROAD NORWALK CONN  
Executione Co 415 Lexington Av New York 17 NY  
Hirsch (S A) Mfg Co 8051 N Central Pk Skokie Ill  
International Business Machines Corp World Headquarters Bldg 590 Madison Av New York 22 NY  
Kellor Switchboard & Supply Co 79 W Monroe Chicago 3 Ill  
Phone Craft Co Venol Bldg Vandewater & Olive St Louis 10 Mo  
Rauland-Borg Corp 3515 W Addison Chicago 18 Ill  
Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
Select-O-Phone Co Div Screw Machine Prods Co 1012 Eddy Providence 5 RI  
Sierra Elec & Mfg Co 544 E 31st Los Angeles Cal  
Sperti Faraday Inc 1322 Church Adrian Mich  
Talk-A-Phone Mfg Co 1512 S Pulaski Chicago 23 Ill  
US Instrument Corp 407-11 Broad Summit NJ  
Webster Electric Co 1900 Clark Racine Wis

## IRONERS

Altforer Bros Co East Peoria Ill  
Apex Electrical Mfg Co 1920 E 152nd Cleveland 10 Ohio  
**ARMSTRONG PRODS CORP HUNTINGTON 12 W VA**  
Automatic Washer Co Newton Iowa  
Bendix Home Appliances Inc Div Aveo Mfg Corp 330 W Sample South Bend Ind  
Blackstone Corp Jamestown NY  
Chicago Dryer Co 2210-20 N Pulaski Rd Chicago 39 Ill  
Conlon Bros Mfg Co 4512 W Fillmore Chicago 50 Ill  
Conlon Moore Corp 1824 S Laramie Cicero 30 Ill  
Fitzdarric Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY**  
**HOTPOINT CO 5660 W TAYLOR CHICAGO 41 ILL**  
Ironer Div Speed Queen Corp Algonquin Ill  
Irontite Inc 332 Cass Av Mount Clemens Mich  
**KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH**  
Maytag Co Newton Iowa  
One Minute Washer Co Kellogg Iowa  
Speed Queen Corp Ripon Wis  
**THOR CORP 2115 S 51TH AV CICERO 50 ILL**  
Universal Major Elec Appliance Co Box 119 Lima Ohio  
Voss Bros Mfg Co Davenport Iowa  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
Whirlpool Corp St Joseph Mich

## IRON, ORNAMENTAL

Adams Co Box 268 Dubuque Iowa  
American Foundry & Mfg Co 1015 Herbert St Louis 7 Mo  
Anchor Div Stratton & Terstegge Co Box 311 300 Culbertson Av New Albany Ind  
**ARTCRAFT ORNAMENTAL IRON CO 700 E HUDSON COLUMBUS 2 OHIO**  
Badger Wire & Iron Wks Inc 2933 W Cleveland Av Milwaukee 15 Wis  
Beaux Art Crafts 2015 Brookfield Rd Pittsburgh 16 Pa  
Bellkool Co 623 S State Appleton Wis  
Belson Mfg Co East River Rd North Aurora Ill  
Birmingham Ornamental Iron Co 4363 1st Av N Birmingham Ala  
Blum Julius & Co Inc 532 W 22nd New York 11 NY  
Braun (J G) Co 615 S Paulina Chicago 12 Ill  
**CINCINNATI IRON FENCE CO 2101 FLORENCE CINCINNATI 6 OHIO**  
**COFFMAN (R G) CO 2809 N ORANGE AV ORLANDO FLA**

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STOCK & SPECIAL SIZES IN:

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- Porch Posts • Railings
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Fawcett Mfg Div Falls Stamping & Welding Co 1703 Front Cayahoga Falls Ohio  
Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
Huntington Industries Inc 2368 Prospect Memphis Tenn  
Hutchinson Co Box 11 Cedar Grove Sta Shreveport La  
Klee & Sons Co Robertsville Ohio  
Loeke Mfg Co Ohio St Lodi Ohio  
Logan Co 201 Cabell Louisville 6 Ky  
Loria Iron Wks New Orleans La  
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Metal Crafters Inc E Av at 18th NE Cedar Rapids Iowa  
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
Morgan-Wichman Supply Co 1541 Salaman Av St Louis Mo  
**National Ventilated Awning Co 605 Hall Dallas 1 Tex**

Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY**  
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio  
Sturdee Metal Poreh Co Box 671 Baltimore 3 Md  
Tennessee Fabricating Co 1190 Grimes Memphis Tenn

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<b>TENNESSEE FABRICATING COMPANY</b>	
1490 Grimes St.	Memphis, Tennessee

Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis  
Wiemann (Ernest) Iron Wks 2035 E 11 Tulsa 4 Okla  
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Barrett (William L) Co 34 School Bristol Conn  
Colloid Equipment Co Inc 19 Murray New York 7 NY  
Electric Soldering Iron Co Deep River Conn  
Hexacon Electric Co 161 W Clay Av Roselle Park NJ  
Ideal Industries Inc 1335 Park Av Sycamore Ill  
Lark Mfg Co 30-38 Cummington Boston 15 Mass  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Turner Brass Wks 821 Park Av Sycamore Ill  
Wall (P) Mfg Co 200 Erie Grove City Pa

## IRONS, SOLDERING, ELECTRIC

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
Hexacon Electric Co 161 W Clay Av Roselle Park NJ  
Ideal Industries Inc 1335 Park Av Sycamore Ill  
Leuk Mfg Co 30-38 Cummington Boston 15 Mass  
Lyon Rural Electric Co 2075 Moore San Diego 12 Cal  
Vulcan Electric Co 88 Helton Danvers Mass

## JACKS, ADJUSTABLE, WOOD, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Ladder Co 5509 NW 7th Av Miami 38 Fla  
Beaumont Steel Div Sharon Steel Corp Griswold St Warren Ohio  
Breyer Bros Whiting & Co Shaler St Waupun Wis  
Clay Equipment Corp Cedar Falls Iowa  
Harris Inc 200 E Long Columbus Ohio  
Holm's Mfg Co of Ohio 1340 Lakeshore Blvd Akron 1 Ohio  
M & M Wire Clamp Co 983 17th Av Minneapolis 14 Minn  
National Plaster Block Co 2236 N 27th Philadelphia 32 Pa  
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
Patent Scaffolding Co 28-21 12th Long Island City 1 NY  
**STEEL SCAFFOLDING CO 856 HUMBOLDT BROOKLYN 22 NY**  
Sweet (A L) Iron Wks 151 Glenwood Av Medina NY  
Templeton Kenly & Co Gardner Rd Broadview Ill  
United Metal Prods Inc 865 S High Akron 11 Ohio  
**WACO MFG CO 3565 WOODDALE AV MINNEAPOLIS 16 MINN**

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**GYPSUM CEILING JACK CO 113 22ND NE CEDAR RAPIDS IOWA**  
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Duff-Norton Mfg Co 2709 Preble Av Box 1889 Pittsburgh 30 Pa  
Jesse-Gridland Co 2927 E 1st Dayton 3 Ohio  
Sweet (A L) Iron Wks 151 Glenwood Av Medina NY

Templeton Kenly & Co Gardner Rd Broadview Ill

## JACKS, LADDER

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Babeock (W W) Co Inc Delaware Av Bath NY  
Bauer Mfg Co Wooster Ohio  
Breyer Bros Whiting & Co Waupun Wis  
Caster Mold & Machine Co 1171 Wooster Rd N Harlerton Ohio  
Flint (A W) Co 196 Chapel New Haven 6 Conn  
Goshen Mfg Co Goshen Ind  
GR & G Stamping Co 6408 S State Chicago 21 Ill  
Heider Mfg Co Carroll Iowa  
Holland Ladder & Mfg Co Holland Mich  
Holm's Mfg Co 1340 Lakeshore Blvd Akron 1 Ohio  
Howard Mfg Co of California 2428 E 56th Los Angeles 58 Cal  
Howard Mfg Co Kent Wash  
Hyle Mfg Co Southbridge Mass  
Moulton Ladder Mfg Co 2-40 Harding Somerville Mass  
Richey Mfg Co 2801 Rochester Rd Springfield Ill  
Ridgely Trimmer Co Springfield Ohio  
Sabin Machine Co 6536 Carnegie Av Cleveland 3 Ohio  
Tilley (John S) Ladders Co Inc 112 Second Waterbet NY  
United Screw & Bolt Corp Cleveland Div 3590 W 58th Cleveland 2 Ohio  
**WACO MFG CO 3565 WOODDALE AV MINNEAPOLIS 16 MINN**

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City \_\_\_\_\_ State \_\_\_\_\_

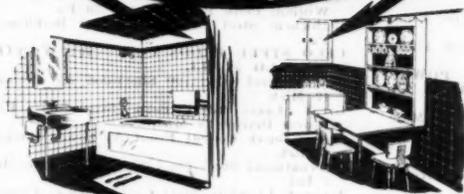
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Air Control Prods 3601 NW 54th Miami Fla  
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Air-Vue Prods Corp 3649 NW 50th Miami Fla  
Albritton Engineering Corp 2501 Wronton Rd Houston 5 Tex  
All-Lite Metal Window Co Box 11 Bristol Pa  
All Weather Jalousies Inc State Hwy 46 Teterboro NJ  
American Aluminum Prods Inc Box 102 International Airport Miami 48 Fla  
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky  
Arnold Prods Sales Corp Box 71 Little River Sta Miami Fla  
Barnhart (A W) Co 140 Highland Port Chester NY  
Casement Hardware Co 612 N Michigan Av Chicago 11 Ill  
Clearview Louver Window Corp 2625 Elm Dallas 1 Tex  
**CROSSLY WINDOW CORP 3550 NW 71ST MIAMI FLA**  
**DENISON CORP 1890 NE 146TH NORTH MIAMI 6 FLA**  
Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
Fulton Glass Co Box 348 Hartford City Ind  
Future Prods Inc Box 56 Sta A St Petersburg Fla  
Harris Inc 200 E Long Columbus Ohio  
**KOTA PRODS INC COUNTY RD ROCKY POINT LI NY**  
**LUDMAN CORP 14100 BISCAYNE BLYD NORTH MIAMI FLA**  
Midwest Louverlite Co 2040 W Washington Blvd Chicago 12 Ill  
Nova Sales Co Trenton 3 NJ  
Pro-Tect-U Jalousie Corp Box 1108 Coral Gables Fla  
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AMERICAN BUILDING

GET IMPORTANT TIME  
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Set Tile The  
**MIRACLE® 'THIN-SET'**  
Way



The Miracle 'Thin-Set' method of installing tile has been proven in thousands of installations in bathroom units and all kinds of other ceiling, floor, counter, and decorative areas, since 1937.

■ You quickly, permanently install tile over gypsum board, plaster, plywood, cement asbestos board, and concrete-vertical or horizontal surfaces.

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■ You speed jobs substantially. You use more economical base materials. You cut costs as much as 20% per job!

■ All your setting material supplies may be secured from Miracle Adhesives Corporation: leveling, priming, setting, grouting, and caulking — made by Miracle Adhesives Corporation to work together to give you best possible jobs at lowest possible costs.



**Important:** Be sure the adhesive you use bears this hallmark, as issued by the United States Department of Commerce. Miracle Tile Cements comply with all Commercial Standard Specifications for "water resistant organic adhesives for installation of clay tile."



Miracle Clay Tile Cement available in floating type, buttering type and floor type — in light color or black. All are waterproof rubber resin adhesive formulations — the finest available.

**FREE:** New 20-page brochure describes Miracle 'Thin-Set' method of installing clay tile. First authoritative brochure on 'Thin-Set' method ever published, with 20 full pages of facts and illustrations. Shows how to install clay tile quickly, permanently at minimum cost. Detailed, 2-color isometric drawings. Write today for your free copy to Dept. AB-1.



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214 E. 63rd Street New York 22, N. Y.

**CUTS COSTS!  
STRONGER JOB!  
COFFMAN ORNAMENTAL IRON**

INSTALLATION  
AS SIMPLE AS



COFFMAN



1

2

Hang 8' or 9' post to soffit plate with lag screws. A choice of designs for all type construction.

Plumb post and wedge with broken brick, block, etc. Note legs extending below finished floor line.

Step forms built for standard steps, 7" risers x 12" treads. If you build brick steps, they will lay-up 7" x 12".

Final check before pouring concrete. Set-up time **ONLY 40 MINUTES.**

3

4



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ARE THE  
FACTS!

- ★ Coffman Ornamental Iron is a packaged item—complete—ready to use.
- ★ Coffman Ornamental Iron can cost less than brick or wood because it eliminates expensive labor at the job site.
- ★ Coffman Ornamental Iron increases the value of the home—gives you additional profit.
- ★ There's no waiting for "custom-built" with Coffman. Order it from your **BUILDING SUPPLY DEALER** as you would a load of lumber.
- ★ Coffman Ornamental Iron cuts your costs, saves you time, makes you money!

**STANDARDIZE YOUR CONSTRUCTION  
FOR BONUS-PROFIT**

Standardize your steps (7" risers, 12" treads) and use built-in-place construction for bonus profits. For off-size steps, use the simple Coffman Rail-O-Graph, available at your dealer. Remember, Coffman 8'/0" Universal height porch posts will fit most all jobs (9'/0" for remodeling jobs).

FREE... Write for descriptive literature and prices on all Coffman products **Today!**

**PLAN & SELL NEW HOMES NOW!**

**R. G. Coffman Co.**

ORLANDO, FLORIDA, DEPT. A.D.

RUSSELL (F C) CO 1836 EUCLID AV  
CLEVELAND 15 OHIO  
Superior Window Co 5300 W N 37th Av  
Miami Fla

**SUPERIOR WINDOW CO.**

Manufacturers of  
JALOUSIES • CASEMENTS  
PROJECTED WINDOWS  
& WINDOW WALL UNITS

5300 N. W. 37th AVE., MIAMI, FLORIDA



Universal Metal Prods Corp 4041 N W 26th  
Miami Fla  
Ventilite Corp 5556 Biscayne Blvd Miami 37  
Fla  
Vent Vue Corp 90 Beacon Blvd Miami Fla  
Weather Prods Inc 1074 E 27th Hialeah Fla  
Windows by Kent 3711 NW 2nd Av Miami Fla  
Winsulite Mfg Co 725 N Central Av Balti-  
more 2 Md

▶ **JAMBS, DOOR, METAL**

DeLuxe Metal Trim Co 3343 Franklin St  
Louis Mo

▶ **JAMBS, PACKAGED DOOR**

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Farley & Loetscher Mfg Co Dubuque Iowa  
KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL  
Marquart Millwork Co 50 Ceape Oshkosh  
Wis  
Pacific Mutual Door Co Tacoma Bldg Tacoma  
Wash  
Phillips-Rhyne Lbr Co Inc Box 699 Brook-  
haven Miss  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Rock Island Millwork Co Rock Island Ill  
Silerest Co 100 Thomas Wausau Wis

▶ **JIGS, BORING**

CORBIN (P & F) DIV AMERICAN HARD-  
WARE CORP 67 PARK AV NEW BRIT-  
TAIN CONN  
KWIKSET SALES & SERVICE CO 516 E  
SANTA ANA ANAHEIM CAL  
LOCKWOOD HARDWARE MFG CO 35  
DANIELS FITCHBURG MASS



**SPEEDRIL**



- ★ Makes light work out of hard labor
- ★ Clean cut edges
- ★ Holes in perfect alignment
- ★ Speeds installation
- ★ Cuts installation costs

LOCKWOOD HARDWARE MANUFACTURING CO.  
Fitchburg, Massachusetts

Technical Glass Co Inc 2050 E 48th Los An-  
geles 58 Cal

▶ **JIGS, LOCK MORTISING**

DEXTER LOCK SUBSID NATIONAL BRASS  
CO 1609 MADISON AV SE GRAND RAP-  
IDS 2 MICH  
KWIKSET SALES & SERVICE CO 516 E  
SANTA ANA ANAHEIM CAL  
Petko Industries 1107 E 8th Los Angeles 21  
Cal  
Vira Car Sales Co Box 2187 South Annex  
Sta Van Nuys Cal

WESTWOOD MFG CO BOX 2261 TERMI-  
NAL ANNEX LOS ANGELES 54 CAL

▶ **JOINTERS**

ATLAS PRESS CO 1819 N PITCHER KALA-  
MAZOO MICH  
BELSAW MACHINERY CO 315 WESTPORT  
RD KANSAS CITY 11 MO  
BOICE CRANE CO 930 W CENTRAL AV  
TOLEDO 6 OHIO  
Consolidated Machinery & Supply Co Ltd  
2031 Santa Fe Av Los Angeles 21 Cal  
DE WALT INC FOUNTAIN AV LANCAST-  
TER PA  
Duro Metal Prods Co 2649 N Kildare Av  
Chicago 39 Ill  
Hood Bros 4336 Orchard Frankford Phila-  
delphia 24 Pa  
MASTER WOODWORKER MFG CO 409 E  
FORT DETROIT 26 MICH  
Oliver Machinery Co 1025 Clancy Av NE  
Grand Rapids 2 Mich  
Porter (C O) Machinery Co 666-68 Front  
Av NW Grand Rapids 4 Mich  
Power (L) & Co Inc 2815 Oakford Phila-  
delphia 46 Pa  
ROCKWELL MFG CO DELTA POWER  
TOOL DIV 400 N LEXINGTON AV  
PITTSBURGH 8 PA  
Sibley (Edw L) Mfg Co Inc 222 W Main  
Bennington Vt  
Toolkraft Corp Plainfield St Springfield 1  
Mass  
Walker Turner Co Inc Kearney & Trecker  
Corp 639 South Av Plainfield NJ  
Wallace (J D) & Co 136 S California Av  
Chicago 12 Ill

▶ **JOINTERS, MASON'S**

Adams (C F) Inc Fort Worth Tex  
Dresden Mfg Co 2375 Walnut Av Long Beach  
6 Cal  
GOLDBLATT TOOL CO 1922 WALNUT  
KANSAS CITY 8 MO  
Hood Bros 4336 Orchard Frankford Phila-  
delphia 24 Pa  
Paine (Benjamin O) Millbury Mass  
Stortz (John) & Sons Inc 210 Vine Philadel-  
phia 6 Pa  
Tuck Mfg Co 74 Ames Brockton 39 Mass

▶ **JOINTERS, SAW**

Atkins (E C) Div Borg Warner Corp 402 S  
Illinois Indianapolis 9 Ind  
BELSAW MACHINERY CO 315 WESTPORT  
RD KANSAS CITY 11 MO  
BOICE CRANE CO 930 W CENTRAL AV  
TOLEDO 6 OHIO  
Hanchett Mfg Co 906 N State Big Rapids Mich  
Heston & Anderson Div St Paul Foundry &  
Mfg Co 606 Kirkwood Fairfield Iowa  
MASTER WOODWORKER MFG CO 401-411  
E FORT DETROIT 26 MICH  
Power (L) & Co 2815 Oakford Philadelphia  
46 Pa  
Powermatic Machine Co McMinnville Tenn  
Present Co Menominee Mich  
ROCKWELL MFG CO DELTA POWER  
TOOL DIV 400 N LEXINGTON AV  
PITTSBURGH 8 PA  
Sandvik Saw & Tool Corp 47 Warren New  
York 7 NY

▶ **JOINTS, EXPANSION**

American Foundry & Mfg Co 1015 Herbert  
St Louis 7 Mo  
Asbestos Asphalt Insulation Inc 2100 Fullert-  
on Av Chicago 47 Ill  
Asbestos Co of Texas Div Carey (Philip)  
Mfg Co Box 1082 Houston 1 Tex  
CAREY (PHILIP) MFG CO 316 S WAYNE  
CINCINNATI 15 OHIO  
CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL  
CELOTEX CORP 120 S LA SALLE CHI-  
AGO 3 ILL  
James B Clow & Sons 201-299 N Talman Av  
Chicago 80 Ill  
FLINTKOTE CO 50 W 50TH NEW YORK  
20 NY  
Goodall Rubber Co Inc 427 Whitehead Rd  
Trenton NJ  
Horn (A C) Co Tenth & 44th Av Long Island  
1 NY  
JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY  
Keystone Asphalt Prods Co 101 E Ontario  
Chicago 11 Ill  
Meadows (W R) Inc 2 Kimball Elgin Ill  
Parker (Charles) Co 50 Hanover Meriden  
Conn  
PITTSBURGH CORNING CORP 307 4TH AV  
PITTSBURGH 22 PA  
Presstite Engineering Co 3900 Chouteau Av  
St Louis 10 Mo  
Protective Papers Inc Union Ill  
ST PAUL CORRUGATING CO SOUTH END  
WABASHA ST BRIDGE ST PAUL 1  
MINN  
Serviced Prods Corp 6051 W 65th Chicago  
38 Ill

▶ **JOINTS, METAL**

Quaker State Metals Co Manheim Pike & City  
Bypass Lancaster Pa  
REYNOLDS METALS CO BUILDING  
PRODS DIV 2601 S 9TH LOUISVILLE 1  
KY

▶ **JOISTS, CONCRETE, PRECAST**

Appley (J W) & Son Inc 831 9th N St Pe-  
tersburg Fla  
Carter-Waters Corp 2140 Pennway Kansas  
City 8 Mo  
COLORCRETE INDUSTRIES INC 563 OT-  
TAWA HOLLAND 1 MICH  
Ryerson (Joseph T) & Son 2558 W 16th  
Chicago 8 Ill

▶ **JOISTS, STEEL**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
American Bridge Div US Steel Corp 525  
William Penn Pl Pittsburgh 30 Pa  
Bethlehem Steel Co 701 E Third Bethlehem  
Pa  
CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL  
Gabriel Steel Co 13700 Sherwood Av Detroit  
12 Mich  
Great Lakes Steel Corp Stran-Steel Div  
Ecorse Detroit 29 Mich  
Haven Busch Co 501 Front Av Grand Rapids  
4 Mich  
International Steel Co 1321 Edgar Evansville  
7 Ind  
Jones & Laughlin Steel Co 3 Gateway Center  
Pittsburgh 30 Pa  
Laclede Steel Co Arcade Bldg St Louis Mo  
Macomber Inc 1925 Tenth Canton Ohio  
PENN METAL CO INC 205 E 42ND NEW  
YORK 17 NY  
Ryerson (Joseph T) & Son 2558 W 16th  
Chicago 8 Ill  
Sheffield Steel Corp Sheffield Sta Kansas City  
25 Mo  
Soule Steel Co 1750 Army San Francisco 24  
Cal  
Stran-Steel Div Great Lakes Steel Corp  
Ecorse 29 Mich  
TRUSCON STEEL DIV REPUBLIC STEEL  
CORP .050 ALBERT YOUNGSTOWN 1  
OHIO  
United States Steel Co 525 William Penn Pl  
Pittsburgh 30 Pa

▶ **KITCHEN ACCESSORIES**

American Cabinet Hdwe Corp 416 S Main  
Rockford Ill  
AMERICAN KITCHENS DIV AVCO CORP  
18TH & COLUMBIA CONNERSVILLE  
IND  
Autoyre Co Oakville Conn  
Bache (Semon) & Co 636 Greenwich New  
York 14 NY  
Bay Ridge Specialty Co Inc Trenton NJ  
BIANCO MFG CO 2736 VICTOR ST LOUIS  
4 MO



**BIANCO MANUFACTURING CO.**

2736 VICTOR ST. - ST. LOUIS 4, MO.  
OTHER FACTORIES IN FORT WORTH AND BALTIMORE

Brody (B) Seating Co 2127 W Iowa Chicago  
22 Ill  
Bromwell Fire Goods Co 1306-7 Enquirer  
Bldg Cincinnati 2 Ohio  
Columbus Plastic Prods Inc 1625 W Mound  
Columbus 4 Ohio  
Dazey Corp Warne & Carter St Louis 7 Mo  
Ekeco Prods Co 1949 N Cicero Chicago 39 Ill  
GENERAL ELECTRIC CO TELECHRON  
DEPT 181 UNION ASHLAND MASS  
Handy Things Mfg Co N Rowe Ludington  
Mich  
Illinois Procelain Enamel Co 420 S Win-  
chester Av Chicago 12 Ill  
IXL Furniture Co Inc Goshen Ind  
Jamestown Metal Prods Co 178 Blackstone Av  
Jamestown NY  
Knappe & Vogt Mfg Co 658 Richmond NW  
Kees (F D) Mfg Co 700 Park Av Beatrice  
Neb  
KITCHEN MAID CORP ANDREWS IND  
Knappe & Vogt Mfg Co 658 Richmond New  
Grand Rapids 2 Mich  
MIAMI CABINET DIV CAREY (PHILIP)  
MFG CO MIDDLETOWN OHIO  
Midwest Mfg Co Galesburg Ill  
MULLINS MFG CORP UNIVERSITY ST  
WARREN OHIO  
PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA  
TRACY KITCHENS EDGEWATER STEEL  
CO BOX 1137 3125 PREBLE AV PITTS-  
BURGH 30 PA  
US Lock & Hardware Co Columbia Pa

AMERICAN BUILDER

**New!**



Gas Fired

# WALL HEATER

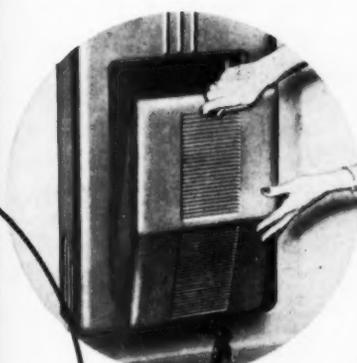
with **EXCLUSIVE** furnace-type **BLOWER**

**PERFECT FOR SMALL HOMES, APARTMENTS, MOTELS, CAMPS . . .**

## FURNACE-TYPE HEATING at 1/4 USUAL COST

Sells on sight! This Royal Recessed Wall Heater gives forced-air, central-type heat—thermostatically-controlled (optional)—yet costs your customers only 1/4 what they'd pay for an ordinary furnace. Check the powerful selling points below, then call your wholesaler for complete details and specifications.

- ★ Takes no floor space, little wall space
- ★ Safe cool cabinet, finished in neutral shade baked-on enamel
- ★ Vented, uses natural, manufactured or LP gases
- ★ Economical operation, dependable Royal quality
- ★ Royal Lifetime Burner
- ★ Quick, easy installation in new or existing structures
- ★ Six models, one for any requirement
- ★ Fully approved by American Gas Association



## PACKAGE BLOWER UNIT Snaps INTO ROYAL WALL HEATER

So easy to install that  
a woman can do it!

**MODEL 5335-B**  
(with blower)

New Royal Furnace-type Blower installs in seconds. Just remove lower panel and snap blower into place, plug into a 110 AC outlet, and it's ready to operate automatically. Controlled by thermostat, blower operates **ONLY** when heater has warmed up—won't circulate cold air. Three-way control switch

allows continuous operation, automatic operation as heat control, or complete shut-off. Blower can be removed from heater and used to circulate air in summer.



**MODEL 5335**

ADVERTISED in *LIVING* for Young Homemakers

**CHATTANOOGA ROYAL COMPANY**  
CHATTANOOGA 6, TENNESSEE



## ▶ KITCHEN CABINET ACCESSORIES

American Cabinet Hdwe Co 416 S Main Rockford Ill  
AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO  
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA  
DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH  
Eldon Mfg Co 1010 E 62nd Los Angeles 1 Cal  
Engineered Prods Co 129 Smith Box 118 Flint 4 Mich  
Excel Metal Cabinet Co Inc 1938 Johnson Jamestown NY  
Fivale Equipment Mfg Co 105 Reade New York 13 NY  
IXL Furniture Co Goshen Ind  
Jamestown Metal Prods Co 178 Blackstone Av Jamestown NY  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
KITCHEN MAID CORP ANDREWS IND  
Knappe & Vogt Mfg Co 658 Richmond NW Grand Rapids 2 Mich  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
McMahon Bros 2220 S Hoover Los Angeles 7 Cal  
Midwest Mfg Co Galesburg Ill  
Morgan Co 520 Oregon Oakkosh Wis  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo  
MULLINS MFG CO UNIVERSITY ST WARREN OHIO  
Paragon Utilities Corp 50 Van Dam Brooklyn NY  
SARGENT & CO 45 WATER ST NEW HAVEN 9 CONN  
Toledo Desk & Fixture Co 1020 Ford Rd Maumee Ohio  
TRACY KITCHENS EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA  
WASHINGTON STEEL PRODS 1940 E 11TH TACOMA 2 WASH  
YALE & TOWNE MFG CO STAMFORD CONN

## ▶ KITCHEN CABINETS, METAL

AMERICAN KITCHENS DIV AVCO MFG CORP 18TH & COLUMBIA CONNERSVILLE IND  
AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA  
Beaulycraft Kitchens Div Miller Metal Prods Inc 2215 Russell Baltimore 30 Md  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV CANTON 5 OHIO  
Clow (James D) & Sons 201-99 N Talman Av Chicago 80 Ill  
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL  
CROSLBY DIV AVCO MFG CORP 1729 ARLINGTON CINCINNATI 25 OHIO  
Excel Metal Cabinet Co Jamestown NY  
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 510 W LIBERTY LOUISVILLE 2 KY  
General Metalcraft Inc Box 57 Olympia Wash  
Geneva Modern Kitchens Inc 201 S Eighth Geneva Ill  
Gold Seal Mfg Co 1228 W Kinzie Chicago 22 Ill  
HARRISON STEEL CABINET CO 4718 W FIFTH AV CHICAGO 44 ILL  
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL  
Hubeny Bros Inc Roselle NJ  
Humphreys Mfg Co 201 E Fifth Mansfield Ohio  
Jamestown Metal Prods Co 178 Blackstone Av Jamestown NY  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
Kraus (Walter S) Co 48-02 43rd Woodside NY  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
Midwest Mfg Co Galesburg Ill  
MULLINS MFG CO CORP UNIVERSITY ST WARREN OHIO  
Murphy Door Bed Co 19 W 44th New York NY  
MURRAY CORP OF AMERICA 7700 RUSSELL DETROIT MICH  
National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY  
Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa  
Paragon Utilities Corp 50 Van Dam Brooklyn NY  
Royal Maid Kitchen Inc 129 N 10th Brooklyn NY  
St Charles Mfg Co St Charles Ill

Shirley Corp 330 E St Joseph Indianapolis 2 Ind  
Toledo Desk & Fixture Co 1020 Ford Rd Maumee Ohio  
TRACY KITCHENS DIV EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA  
Unified Metal Box Co 168 Seventh Brooklyn NY  
UNIVERSAL-RUNDLE CORP BOX 966 NEW CASTLE PA  
Wood Metal Industries Inc Kremer Snyder County Pa

## ▶ KITCHEN CABINETS, WOOD

Ahlbrand (A H) Co Seymour Ind  
Angel Novelty Co Fitchburg Mass  
Bel-Wood Mfg Co Ackerman Miss  
Boro Wood Co Maspeth LI NY  
Boro Wood Prods Co Inc Bennettsville SC  
Brammer Mfg Co Davenport Iowa  
Burke Millwork Co Seattle 3 Wash  
Cameron (Wm) & Co Drawer 1069 Waco Tex  
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA  
Cole Mfg Co Memphis 2 Tenn  
Colonial Prods Co Broad & Park Dallas-town Pa  
Copps Inc Nappanee Ind  
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA  
Del-Mar Cabinet Co Inc 2865 Gordon Rd Atlanta Ga  
Dyke Bros Little Rock Ark  
Esiner (Alexander) Co Merchandise Mart Chicago 54 Ill  
Farley & Loetscher Mfg Co Dubuque Iowa  
GATE CITY SASH & DOOR CO 15 SW THIRD AV FORT LAUDERDALE FLA  
General Wood Works 105 S 31st Council Bluffs Iowa  
GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS  
Hines (Edward) Lumber Co 77 W Washington Chicago 7 Ill  
Huttig Mfg Co Muscatine Iowa  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis Mo  
Hyde Park Prods Co Bureh Av & N&WRR Cincinnati 8 Ohio  
Ideal Co 24th & Mary Waco Tex  
IXL Furniture Co Goshen Ind  
Kenarobe Corp 8721 Darby Av Northridge Cal  
Kinza Pine Mills Co Kinzua Ore  
KITCHEN-MAID CORP ANDREWS IND  
Kraus (Walter S) Co 48-02 43rd Woodside NY  
Marquart Millwork Co Oakkosh Wis  
MENDEL CO 1TH & COLORADO LOUISVILLE 1 KY  
Milo Prods Co Grantham Pa  
Morgan Co 520 Oregon Oakkosh Wis  
Morgan Sash & Door Co 227 S Blue Island (Av Chicago 8 Ill)  
MUTSCHLER BROS CO 320 S MADISON NAPPANEE IND  
Pacific Mfg Co 2610 The Alameda Santa Clara Cal  
Rock Island Millwork Co Rock Island Ill  
Schneck (William) & Co Evans City Pa  
Seigelke & Kohmann Co 600 S 2nd LaCrosse Wis  
Slosswood Inc 913 Cherokee Av Nashville Tenn  
Spokane Sash & Door Co Spokane Wash  
Sterling Freeland Industries Inc 4701 N Western Av Chicago 25 Ill  
Talos Inc 2823 Chester Av Cleveland Ohio  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
Wood Metal Industries Inc Kremer Snyder County Pa

## ▶ KITCHENS, UNIT

Brammer Mfg Co Davenport Iowa  
CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA  
Douglas Crestlyn International Inc 901 Girard NE Washington 17 DC  
Dwyer Prods Corp Calumet & Holiday Michigan City Ind  
Earle Kitchen Unit Co 116 E 63rd New York 21 NY  
Farley & Loetscher Mfg Co Dubuque Iowa  
General Air Conditioning Corp 4536 E Dunham Los Angeles 23 Cal  
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL  
MURRAY CORP OF AMERICA 7700 RUSSELL DETROIT 22 MICH  
UNIVERSAL-RUNDLE CORP BOX 966 NEW CASTLE PA

## ▶ KITCHEN VENTILATING HOODS

Cole Mfg Co 705 Raymond Austin Tex  
Giehner Inc 1900 Kendall NE Washington 2 DC  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
Robert Mfg Co Box 172 Cleburne Tex  
Singer Corp 2305 W Alameda Burbank Cal

Universal Blower Co 1090 S Adams Av Birmingham Mich  
VENT-A-HOOD CO 1907 PLANTATION DR DALLAS 19 TEX

## ▶ KITS, HOME PLANNING

Homograf Co 11711 E 8-Mile Rd East Detroit Mich  
Planitec Co 746 Carondelet New Orleans 12 La  
San Angelo Plan Box 1470 San Angelo Tex  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

## ▶ KNIVES, FIBER BOARD

General Hdwe Mfg Co Inc 80 White New York 13 NY  
Kimball Mfg Co Inc 1629 Sycamore Royal Oak Mich  
Miller Falls Co Wells & Devon Greenfield Mass  
Selek (Water E) & Co 225 W Hubbard Chicago 19 Ill

## ▶ KNIVES, HIGH SPEED

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO  
Dependable Machine Co Box 1285 Sedgfield Greensboro NC  
Dixton (Henry) & Sons Inc Tacony Philadelphia 35 Pa  
Elkstrom Carlson & Co 1430 Railroad Av Rockford Ill  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS  
Taylor-Stiles & Co 225 Bridge Riegelsville NJ  
Woods (A) Machine Co Darnell and Alger Boston 27 Mass  
Yates-American Machine Co 729 4th Beloit Wis

## ▶ KNIVES, MACHINE

American Knife Co Baldwinville NY  
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
Dependable Machine Co Box 1225 Sedgfield Greensboro NC  
Dixton (Henry) & Sons Inc Tacony Philadelphia 35 Pa  
Elkstrom Carlson & Co 1400 Railroad Av Rockford Ill  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Holmes (E & H) Machinery Co Inc 59 Chicago Buffalo 4 NY  
Huther Bros Saw Mfg Co Inc 1290 University Av Rochester NY  
Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa  
Mitts & Merrill 1009 S Water Sarinaw Mich  
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
SIMONDS SAW & STEEL CO FITCHBURG MASS  
Taylor Stiles & Co 225 Bridge Riegelsville NJ  
Woods (S A) Machine Co Boston 27 Mass

## ▶ KNIVES, PUTTY, ROOFING

### LINOLEUM

B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO  
Badger Corrugating Co 1801-50 West Av S LaCrosse Wis  
Barrett (W L) 34 School Bristol Conn  
Black Panther Tool Co 4051 S Iowa Milwaukee 7 Wis  
Bridgport Hdwe Mfg Corp 461 Transtian Av Bridgeport 5 Conn  
Clyde Cutlery Co Clyde Ohio  
Dreaden Mfg Co 2275 Walnut Av Long Beach 6 Cal  
FASTENER CORP 360 W FLETCHER CHICAGO 14 ILL  
Fletcher-Terry Co 437 South Forestville Conn  
Glaziers Tool Mfg Co 611 W Adams Chicago 8 Ill  
GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 4 MO  
Handy Things Mfg Co N Rowe Ludington Mich  
Hyde Mfg Co Southbridge Mass  
Lamson & Godnow Mfg Co Shelburne Falls Mass  
Lehon Co 4425 S Oakley Av Chicago 9 Ill  
MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA  
Marathon Housewares Corp 33 W 42nd New York NY  
Meta Trims Inc Box 1072 Yonkers 4 Ohio

Modern Specialties Co 4110 W Harrison Chicago Ill  
 Murray-Black Co Springfield Ohio  
 National Guard Prods 757 Madison Memphis Tenn  
 Parker (Fra) & Sons Co Oshkosh Wis  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
 Ritely Trimmer Co Springfield Ohio  
 Robeson Cutlery Co Inc Perry NY  
 Russell Harrington Cutlery Co 44 River Southbridge Mass  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
 Schrade (George) Knife Co Inc 46 Seymour Bridgeport Conn  
 Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
 Tuck Mfg Co 74 Ames Brockton 39 Mass  
 Warner Mfg Co 801 16th Av SE Minneapolis Minn

Williams Prods Co Inc 6127 Cedar Philadelphia 43 Pa  
**YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO**

**KNIVES, VENEER**  
 Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
 Diston (Henry) & Sons Inc Tacony Philadelphia 35 Pa  
 Hoe (R) & Co Inc 910 E 138th New York 54 NY  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

**LACQUER**

Aeme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
 Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 American-Marletta Co Valdara Div 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Arco Co 7901 Bessomer Cleveland 4 Ohio  
 Berry Bros Inc 2141 Lodi Detroit 7 Mich  
 Breinig Bros Inc 1st & Harrison Hoboken NJ  
 Chicago Bronze & Color Wks 2673 W Grand Av Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill

Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Glidden Co Berea Rd & Madison Cleveland Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 3 Mich  
 Hooker Glass & Paint Mfg Co 650 W Washington Chicago 8 Ill  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 2 NY  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 Lucas (John) & Co 1619 Pennsylvania Blvd Philadelphia Pa  
 Martin-Somohr Co 2520 S Quarry Chicago 8 Ill

Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Murphy-Egins Div Interchemical Corp 224 McWhorter Newark NJ  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Patterson Sargent Co 1355 E 38th Cleveland 11 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Sherwin-Williams Co 1011 Products Av Cleveland 1 Ohio  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Standard Tech Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY  
 Steeleco Mfg Co 3418 Gratiot St Louis 3 Mo  
 United Lacquer Mfg Corp 1001 W Elizabeth Av Linden NJ  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**  
 Valentine & Co Inc 11 E 36th New York 16 NY

Woodfinishing Prods Co 34 Industrial New York 61 NY

**LADDER ACCESSORIES**

American Ladder Co Box 101 Worthington Pa  
 American Ladder Co 5509 NW 7th Av Miami 38 Fla

American Mason Safety Trend Co 125 Perry Lowell Mass  
 Breyer Bros Whiting & Co Waupun Wis  
 Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind  
 Holland Ladder & Mfg Co 13053 W 17th Holland Mich  
 Holmes Mfg Co of Ohio 1340 Lake Shore Blvd Akron 3 Ohio  
 Lewis-Skinner Co New Boston NH  
 Michigan Ladder Co 12 E Forest Av Ypsilanti Mich  
 Patent Scaffolding Co 38-21 12th Long Island City 1 NY  
**STEEL SCAFFOLDING CO 856 HUMBOLDT BROOKLYN 22 NY**  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA**  
 Weinstein Ladder Co Route 29 Union NJ  
 Woodenware Prods Corp 122 N 7th St Louis 71 Mo

**LADDER STEPS, SAFETY**

American Ladder Co 5509 NW 7th Av Miami 38 Fla  
 Babcock (W W) Co Inc Delaware Av Bath NY  
 Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
 Campbell (A S) Co Inc 156 Prospect East Boston 28 Mass  
 Dayton Safety Ladder Co 2337 Gilbert Av Cincinnati 6 Ohio  
 Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis  
 Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind  
 Holland Ladder & Mfg Co 13053 W 17th Holland Mich  
 O'Neil (Carl W) Associates Inc 190 E Chestnut Chicago 11 Ill

**LADDERS, ALUMINUM**

Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY  
 Aeme Scaffold Co Inc 168 Nostrand Av Brooklyn 5 NY  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Ladder Co 5509 NW 7th Av Miami 38 Fla  
 Aluminum Ladder Co Box 101 Worthington Pa  
 Chesley Industries Inc 7731 Lyndon Detroit 12 Mich  
 Colloid Equipment Co Inc 19 Murray New York 7 NY  
 Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis  
 Harris Inc 200 E Long Columbus Ohio  
 Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
 Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
 Weinstein Ladder Co Route 29 Union NJ  
 Werner (R D) Co 295 5th Av New York 16 NY

**LADDERS, STEEL**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Ballymore Co Wayne Pa  
 Chesley Industries Inc 7731 Lyndon Detroit 12 Mich  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 International Steel Co 1321 Edgier Evansville 7 Ind  
 Logan Co 201 Cabel Louisville 6 Ky  
 Meyers (Fred L) Mfg Co 1176 Hooyen Av Hamilton Ohio  
 Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
 Precision Equipment Co 3712 N Milwaukee Av Chicago 41 Ill

**LADDERS, WOOD, ALL TYPES**

American Ladder Co 5509 NW 7th Av Miami 38 Fla  
 Babcock (W W) Co Inc Delaware Av Bath NY  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bauer Mfg Co Palmer St Wooster Ohio  
 Beh & Co Inc 1150 Broadway New York NY  
 Berg (John) Mfg Co 5319 S LaSalle Chicago 9 Ill  
 Breyer Bros Whiting Co Waupun Wis  
 Clark (J R) Co Spring Park Minn  
 Dayton Safety Ladder Co 2337 Gilbert Av Cincinnati 6 Ohio  
 Duo-Safety Ladder Corp 811 Ninth Oshkosh Wis  
 Frizzell Ladder Co 135 Granite Boston 24 Mass  
 Goshen Churn & Ladder Co 1930 Estes Blvd Goshen Ind  
 Goshen Mfg Co Goshen Ind  
 Goshen Sash & Door Co E Paul Goshen Ind  
 Green (Harry A) & Son 1620 S Canal Chicago 11 Ill  
 Heider Mfg Co Carroll Iowa

Heller (W C) & Co Montpelier Ohio  
 Holland Ladder & Mfg Co Holland Mich  
 Hopson (W C) Co 216-220 Grandville Av Grand Rapids 2 Mich  
 Howard Mfg Co Kent Wash  
 Howard Mfg Co of Cal 2428 E 56th Los Angeles 38 Cal  
 Los Angeles Ladder Co 6230 S Alameda Los Angeles 1 Cal  
 Michigan Ladder Co 12 E Forest Av Ypsilanti Mich  
 Moulton Ladder Mfg Co 2-40 Harding Somerville Mass  
 Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
 Patent Scaffolding Co 38-21 Twelfth Long Island City 1 NY

**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Rich (Howard B) Inc Sixth St Carrollton Ky

**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**

Riehill Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio  
**ROWE MFG CO CALESBURG ILL**  
 Tacoma Lumber Fabricating Co Tacoma 1 Wash  
 Tilley Ladders Co Inc (John S) 2365 McKinley Av Davenport Iowa  
 Tilley (John S) Ladders Co 112 Second Watervliet NY  
 Topping Ladder Co Marion NY  
 Warren (J D) Mfg Co Montpelier Ohio  
 Willamette Valley Lumber Co Dalles Ore  
 Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
 Young (J O) Co Springfield Mass  
 Zoss Ladder & Mfg Co Portland 1 Mass

**LAMPS, FLUORESCENT**

**GENERAL ELECTRIC CO LAMP DEPT NELA PARK CLEVELAND 12 OHIO**  
 Sylvania Electric Prods Inc 500 Fifth Av New York 78 NY  
 Westinghouse Electric Corp Lamp Div Bloomfield NJ

**LAMPS, INCANDESCENT**

**GENERAL ELECTRIC CO LAMP DEPT NELA PARK CLEVELAND 12 OHIO**  
 LaSalle Prods Inc 143 Seneca Buffalo 3 NY  
 Lightmore Appliance Corp 738 Broadway New York 3 NY  
 Penetrax Corp 615 Front Toledo 5 Ohio  
 Pennsylvania Illuminating Corp Scranton Pa  
 Safety Electric Co 53 W Jackson Chicago 11 Ill  
 Sylvania Lighting Inc 1270 Sixth Av New York NY  
 Sylvania Electric Prods Inc 500 Fifth Av New York 18 NY  
 Westinghouse Electric Corp Lamp Div Bloomfield NJ

**LAMPS & LANTERNS, CAMP**

**COLEMAN CO INC SECOND & FRANCIS WICHITA 1 KAN**  
 Cupples Co 401 57th St St Louis 2 Mo  
 Dietz (R E) Co 225 Wilkinson Syracuse 1 NY  
 Justice Mfg Co 2061 N Southport Av Chicago 14 Ill  
 Mantle Lamp Co of America 223 W Jackson Blvd Chicago 11 Ill  
 Miller (Robert R) Co Inc 3346 Pearl New York NY  
 National Stamping & Electric Wks 2215 Clark Av St Louis 8 Mo  
 Overmyer-Perram Glass Co Box 2477 Tulsa Okla  
 Samco (Wm J) Iron Co 915 Military Rd Kenmore 17 NY  
 Stewart Iron Wks Co Inc 1851 Stewart Block Cincinnati 1 Ohio  
 Swift & Bridge New Britain Conn

**LANTERNS, ORNAMENTAL IRON**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Bran (R G) Co 615 S Paulina Chicago 12 Ill  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 Locke Mfg Co Ohio St Lodi Ohio  
 Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

**LATCHES**

**ALLITH-PROUTY INC 819 N BOWMAN AV DANVILLE ILL**  
 Champion Hdwe Co Geneva Ohio  
 Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY  
 Clinton Lock Co Clinton Iowa  
**CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE**

Duncan Shaw Corp 33 W 42nd New York 18 NY  
 Eagle Lock Co 20 S Main Terryville Conn  
 Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
 Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn  
**INDEPENDENT LOCK CO 1950 CLEGHORN FITCHBURG MASS**  
**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
**NATIONAL LOCK CO 1902 7TH ROCKFORD ILL**  
**NATIONAL MFG CO STERLING ILL**  
 Newell Mfg Co Lowell Mich  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Penn Hardware Co Spruce St Reading Pa  
 Safe Padlock & Hdwe Co Second & Crystal Lancaster Pa  
 Sager-Barrows Lock Div Yale & Towne Mfg Co Berrien Springs Mich  
 Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
 Star Metal Prods Inc 370 Butler Brooklyn 17 NY  
 Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa  
 Technical Glass Co 2050 E 48th Los Angeles 11 Cal  
**WAGNER MFG CO 1ST & WASHINGTON CEDAR FALLS IOWA**

### ▶ LATCHES, GATE

Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal  
 Clinton Lock Co Clinton Iowa  
**CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**  
**DENTER LOCK CO SUBSID NATIONAL BRASS CO 1609 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Fixale Equipment Mfg Co 105 Reade New York 13 NY  
**FRANTZ MFG CO 301 W 3RD STERLING ILL**  
 Hazer (C) & Sons Hinge Mfg Co 139 Victor St Louis 4 Mo  
 Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
 Johnson Industries Inc 2110 S 7th Blvd St Louis 4 Mo  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
**LOCKWOOD HDWE MFG CO 35 DANIELS FITCHBURG MASS**  
**MCKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA**  
 Norwalk Lock Co 395 Broadway New York 13 NY  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER ST NEW HAVEN CONN**  
 Slaymaker Lock Co 115 S West End Av Lancaster Pa  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Starline Inc 300 W Front Harvard III  
 Wrightsville Hdwe Co Wrightsville Pa

### ▶ LATCHES, MAGNET FOR CUPBOARD DOORS

**LABORATORY EQUIPMENT CORP HILL-TOP RD ST JOSEPH 6 MICH**  
 National Plywoods Inc 2710 Throop Chicago  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

### ▶ LATH, COMPOSITION OR KEY

**JOHNS MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Southern Pine Lumber Co Dibol Tex  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ LATH, GYPSUM

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Grand Rapids Plaster Co Grand Rapids Mich  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Schumacher Wall Board Corp South Gate Cal  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ LATH, INSULATING

**ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA**  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
**DANT & RUSSELL, INC 711 EQUITABLE BLDG PORTLAND ORE**  
 Fir-Tex Insulating Board Co US Natl Bank Bldg Portland Ore  
**FLINTKOTE CO 36 ROCKEFELLER PLAZA NEW YORK 30 NY**  
**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 3 MINN**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
 Simpson Logging Co White Bldg Seattle 1 Wash  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WOOD CONVERSION CO FIRST NATL BANK BLDG ST PAUL 1 MINN**

### ▶ LATH, METAL

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Badger Corrugating Co 1801-29 West Av S LaCrosse Wis  
**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
 Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn  
 Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa  
 Soule Steel Co 1750 Army San Francisco 24 Cal  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Wheeling Corrugating Co Wheeling W Va  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON NEW YORK 19 NY**

### ▶ LATH, WOOD

Anaconda Copper Mining Co Bonner Mont  
 Brooks-Scanlon Inc Bend Ore  
**CONNOR LUMBER & LAND CO 231 THOMAS WALSAU WIS**  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Fleishel Lumber Co St Louis Mo  
 Fordyce Lumber Co Fordyce Ark  
 Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
 Hulbert (Wm) Mill Co 12th & Norton Everett Wash  
 Kinzua Pine Mills Co Kinzua Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
 Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
 Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill  
 St Maries Lumber Co St Maries Idaho

### ▶ LATHES

**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
**DE WALT INC FOUNTAIN AV LANCASTER PA**  
 Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**  
 Wallace (J D) & Co 136 S Carolina Av Chicago 12 Ill  
 Whitney (Baxter D) & Son Inc Winchendon Mass  
 Yates-American Machine Co 729 4th Beloit Wis

### ▶ LATHING, SUSPENDED CEILING SYSTEMS

Alden Mfg Co 201 W Walnut Painesville Ohio

**ARMSTRONG CORK CO BUILDING MATERIALS DIV 1010 CONCORD LANCASTER PA**  
 Mid-West Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio  
 Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ LAVATORIES, CABINETS

James B Clow & Sons 201-299 N Talman Av Chicago 80 Ill  
**FORMICA CO 4511 SPRING GROVE AV CINCINNATI 32 OHIO**  
 Ideal Cabinet Corp Div Des Lauriers Column Mould Co Inc 7722 Joy Rd Detroit 4 Mich  
**REGAL CABINET CORP 92 THIRD BROOKLYN 31 NY**

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**TOPCRAFT INC 4207 MENLO DR BALTIMORE 15 MD**

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### ▶ LEAD, RED

American Varnish Co 1140 N Branch Chicago 22 Ill  
 Berry Bros Inc 211 Leib Detroit 7 Mich  
 Breinig Bros Inc 1st & Harrison Hoboken NJ  
 Bursdal (A) Co 206 S Capitol Indianapolis 9 Ind  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Glidden Co Beren Rd & Madison Cleveland 2 Ohio  
 Hammond Lead Prods Inc Hammond Ind  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 National Lead Co 111 Broadway New York 6 NY  
 Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky

**AMERICAN BUILDER**

Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY  
 Vita-Var Corp 10 Commerce Newark NJ  
 Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

### ▶ LEAD, WHITE

Acme White Lead & Color Wks 8250 St Aubin Detroit 11 Mich  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Burdsal (A) Co 206 S Capital Av Indianapolis 9 Ind  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Fuller (W P) & Co Inc 301 Mission San Francisco 19 Cal  
 Gillespie Varnish Co Dey & Howell Jersey City 6 NJ  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Hoboken White Lead & Color Wks 15th & Adams Hoboken NJ  
 Inland White Lead Co Franklin Park Ill  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 National Lead Co 111 Broadway New York 6 NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY  
 Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

### ▶ LEVELING, WALL, MATERIAL FOR

Reardon Co 7501 Page Av St Louis 14 Mo  
 Tamms Industries Inc 228 N LaSalle Chicago 1 Ill

### ▶ LEVELS, CARPENTER'S, MASON'S

**BOSTROM BRADY MFG CO STONEWALL & BAILEY SW ATLANTA GA**  
 Christensen & Kroll Box 284 McMinnville Ore  
 Columbian Vise & Mfg Co 9021 Bessemer Av Cleveland 4 Ohio  
 Empire Level Mfg Co Box 97 Milwaukee 13 Wis  
 General Hdwe Mfg Co Inc 80 White New York 13 NY  
**GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 8 MO**  
 Graham (John H) & Co Inc 105 Duane New York 8 NY  
 Hall Level & Mfg Wks 1119 E Fourth Austin Tex  
 Harris Inc 200 E Long Columbus Ohio  
**HYDROLEVEL 53 DE SOTO AV OCEAN SPRINGS MISS**  
 Keuffel & Esser Co 300 Adams Hoboken NJ  
 Mayes Bros Tool Mfg Co Port Austin Mich  
 Millers Falls Co Wells & Devon Greenfield Mass  
 Ox-Wall Tool Co 928 Broadway New York 10 NY  
 Peerless Level & Tool Co Sterling Ill  
 Sands Level & Tool Co 601 Clinton Clinton Ind  
**SCHARF (J H) MFG CO 6120 BINNEY OMAHA 4 NEBR**  
 Schultes Level Inc 17403 Gable Av Detroit 12 Mich  
**SIMPLEX LEVEL CO 4921 CADILLAC BLVD DETROIT 14 MICH**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Starrett (L S) Co 101 Crescent Athol Mass  
 Stevens (E A) Level Co Newton Falls Ohio  
**THOM-WOOD CO 83 WEBSTER ROCKLAND MASS**  
**WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA**  
**WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS**

### ▶ LIGHTING PLANTS

Buda Co Harvey Ill  
 Continental Motors Corp 205 Market Muskegon Mich  
 Eagle Electric Mfg Co Inc 23-10 Bridge Plaza So Long Island City 1 NY  
 Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill  
 Genesco Tools 1830 N Kostner Av Chicago 39 Ill  
**HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY**  
 Howard Industries Inc Cyclohm Motor Corp Div Racine Wis  
 Katolight Corp Box 491-95 Mankato Minn  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal

**KOHLER CO 44 HIGH KOHLER WIS ONAN (D W) & SONS INC 2515 UNIVERSITY AV SE MINNEAPOLIS 14 MINN**  
 Phelps Power & Light Co Rock Island Ill  
 Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill  
 Ready-Power Co 3820 Grand River Av Detroit Mich  
 Universal Motor Co 517 Universal Dr Oshkosh Wis  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Wincharger Corp Commerce Bldg Sioux City Iowa  
 Wind (Jacob) Electric Co Inc Minneapolis Minn  
 Winpower Mfg Co Newton Iowa

### ▶ LIGHTNING PROTECTION SYSTEMS

American Lightning Rod Co Inc 67 Battery-march Boston 10 Mass  
 Boston Lightning Rod Co Dedham Mass  
 Brown Lightning Protection System Hartford Conn  
 Burkett Lightning Rod Co Park Av & Vine Fremont Ohio  
 Electra Protection Co Inc Home Savings Bank Bldg 11 N Pearl Albany 7 NY  
 Giehner Inc 1900 Kendall NE Washington 2 DC  
**INDEPENDENT PROTECTION CO INC 1603-09 S MAIN GOSHEN IND**

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 420 Lexington Ave., New York, NY-MH 6-8897**

National Lightning Protection Co 2340 Eugenia St Louis 3 Mo  
 Ohio Lightning Rod Co West Milton Ohio  
 Robbins Lightning Protection Co 124 E Second Maryville Mo  
 Thompson (George E) Co 616 41st Av N Minneapolis 12 Minn  
 West Dodd Lightning Conductor Corp Goshen Ind

### ▶ LIGHTS, FLUORESCENT

Atlas Elec Prods Co 319 Ten Eyck Brooklyn NY  
 Benjamin Electric Co Des Plaines Ill  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
 Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo  
 Holophane Co Inc 342 Madison Av New York 17 NY  
 Long (W H) Co 425 N Clark Chicago Ill  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
**WESTINGHOUSE ELECTRIC CORP DEPT G10093 A BOX 868 PITTSBURGH 30 PA**

### ▶ LIGHTS, SPOT & FLOOD

Benjamin Electric Co Des Plaines Ill  
 Enarco Corp Box 515 Far Hills Sta Dayton 9 Ohio  
 General Electric Co Apparatus Div 1 River Rd Schenectady 5 NY  
 Haled Electronics Co 57 William New York City 5 NY  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
 Lightolier Co 346 Claremont Av Jersey City 5 NJ  
 Pyle-National Co 1334 N Kostner Chicago 51 Ill  
 Steber Mfg Co 2700 Roosevelt Rd Broadview Ill  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**

### ▶ LIME, FINISHING

**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Fairmont Wall Plaster Co Fairmont W Va  
 Gibsonburg Lime Prods Co Gibsonburg Ohio  
 Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio  
 Keystone Lime Works Inc Keystone Ala  
 Marblehead Lime Co 300 W Washington Chicago 6 Ill  
 Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
 Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala  
 Standard Lime & Stone Co Baltimore 3 Md  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Washington Brick & Lime Co Box 2198 Spokane 8 Wash  
 Woodville Lime Co 2140 Jefferson Av Toledo 2 Ohio

### ▶ LIME, HYDRATED

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Chicago Fire Brick Co 1461 N Elston Chicago 11 Ill  
 Corson (G & W H) Inc Plymouth Meeting Pa Ohio  
 Gibsonburg Lime Prod Co Gibsonburg Ohio  
 Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio  
 Keystone Lime Wks Inc Keystone Ala  
 Marblehead Lime Co 300 W Washington Chicago 6 Ill  
 Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal  
 National Lime & Stone Co First National Bank Bldg Findlay Ohio  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
 Riverton Lime & Stone Co Inc Riverton Va  
 Smith Chemical & Color Co 55 John Brooklyn 1 NY  
 Southern Cement Co 605 Protective Life Bldg Birmingham 3 Ala  
 Standard Lime Stone Co Baltimore 3 Md  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Warner Co 219 N Broad Philadelphia 7 Pa  
 Washington Brick & Lime Co Box 2198 Spokane 8 Wash  
 Western Lime & Cement Co 125 E Wells Milwaukee Wis  
 Woodville Lime Co 2140 Jefferson Av Toledo 2 Ohio

### ▶ LIME, MASON'S

**CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA**  
 Gibsonburg Lime Prods Co Gibsonburg Ohio  
 Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio  
 Keystone Lime Wks Inc Keystone Ala  
 Marblehead Lime Co 300 W Washington Chicago 6 Ill  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
 Riverton Lime & Stone Co Inc Riverton Va  
 Standard Lime & Stone Co Baltimore 3 Md  
**UNITED STATES GYPSUM CO 300 W ADAM CHICAGO 6 ILL**  
 Warner Co 219 N Broad Philadelphia 7 Pa  
 Western Lime & Cement Co 125 E Wells Milwaukee Wis  
 Woodville Lime Co 2140 Jefferson Av Toledo 2 Ohio

### ▶ LIME, PEBBLE

Gibsonburg Lime Prods Co Gibsonburg Ohio  
 Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio  
 Marblehead Lime Co 300 W Washington Chicago 6 Ill  
 Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Western Lime & Cement Co 125 E Wells Milwaukee Wis

### ▶ LIME, QUICK

Corson (G & W H) Inc Plymouth Meeting Pa  
 Gibsonburg Lime Prods Co Gibsonburg Ohio  
 Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio  
 Marblehead Lime Co 300 W Washington Chicago 6 Ill  
 Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal  
 National Lime & Stone Co First National Bank Bldg Findlay Ohio



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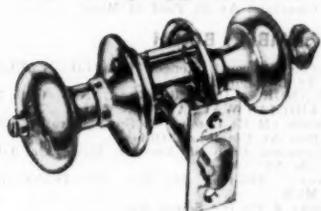
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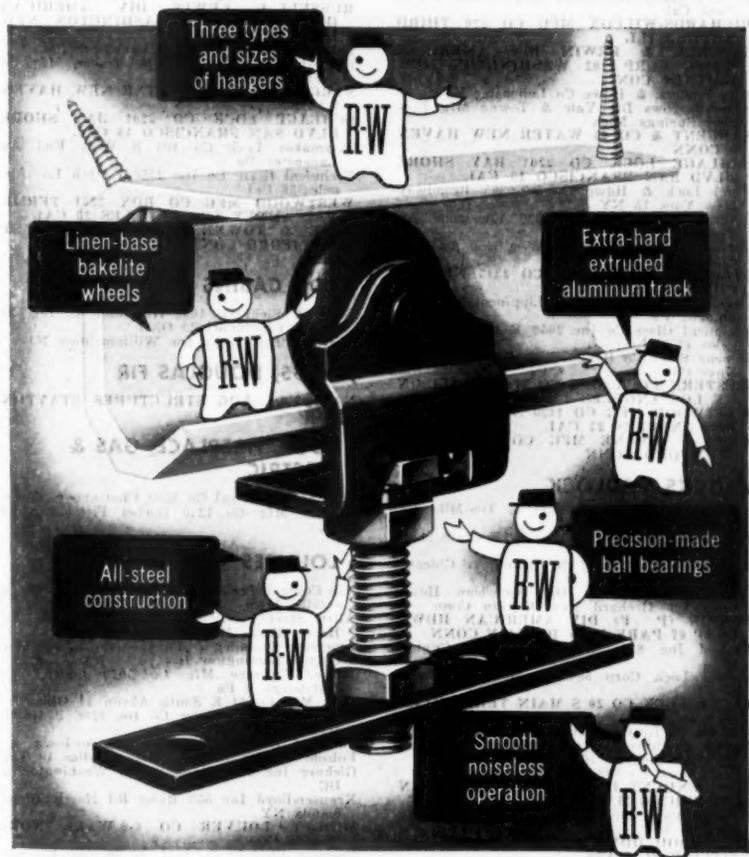
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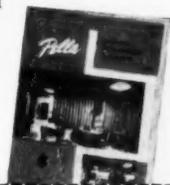
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Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Colfax Lumber & Creosoting Co Inc Box 231  
 Pineville La  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Dierks Lumber & Coal Co 700 Dierks Bldg  
 Kansas City Mo  
**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
 VILLE MISS**  
 Frost Lumber Industries Drawer 1125 Shreve-  
 port 90 La  
 Gaynor (E S) Lumber Co Sioux City 1 Iowa  
 Kendall Lumber Corp Grant Bldg Box 1467  
 Pittsburgh 19 Pa  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY**  
**6 MO**  
 Protex Corp 162 Market Kenilworth NJ  
 Southwestern Creosoting Co Box 935 Musko-  
 gee Okla  
 Taylor-Colquitt Co 211 E Main Spartanburg  
 SC  
 Timber Structures Inc Box 3782 Portland 8  
 Ore  
**WEYERHAEUSER SALES CO 1ST NA-  
 TIONAL BANK BLDG ST PAUL 1 MINN**

**▶ LUMBER, CYPRESS**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Arrow Tank Co Inc 16 Barnett Buffalo 15  
 NY  
 Atlantic Lumber Co 88 Broad Boston 4 Mass  
 Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 1648 THOMAS**  
**AV MEMPHIS 1 TENN**  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Edens-Bireh Lumber Co Corrigan Tex  
 Johnson & Carlson 848 W Eastman Chicago  
 22 Ill  
 Lightsay Bros Miley SC  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY**  
**6 MO**  
 Mansfield Hardwood Lbr Co 1166 Louisiana  
 Av Shreveport La  
 Marshall Lumber Co Box 559 Marion NC  
**MENGEL CO 4TH & COLORADO LOUIS-  
 VILLE 1 KY**  
 Miller & Co Inc Selma Ala  
 Paxton (Frank) Lumber Co 6311 St John Av  
 Kansas City Mo  
 Southern Pine Lumber Co Texarkana Tex  
 Standard Mfg Co 229 E 4th Cedar Falls  
 Iowa  
 Twin City Hardwood Lumber Co 509 N Cleve-  
 land Av St Paul 14 Minn  
 US Challenge & Challenge Co 1441 N Kings-  
 bury Chicago 22 Ill

**▶ LUMBER, FIR, DOUGLAS**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Arrow Tank Co 16 Barnett Buffalo 15 NY  
**ASSOCIATED PLYWOOD MILLS EUGENE**  
**ORE**  
 Babcock Lumber Co Frick Bldg Pittsburgh  
 19 Pa  
 British Columbia Forest Prods Ltd 995 W  
 6th Av Vancouver 9 BC Canada  
 Canadian Western Lumber Co Ltd 15 King  
 Edward Av New Westminster BC Canada  
 Cascade Lumber Co N 7th & "H" Yakima  
 Wash  
 Clear Fir Sales Co Box 188 Springfield Ore  
 Collins Pondersa Lumber Co Pondersa Ore  
 Cook County Lbr Co 200 E 120th Chicago 28  
 Ill  
 Giustina Bros Lumber Co Box 989 Eugene  
 Ore  
 Harbor Plywood Corp Hoquiam Wash  
 Harbor Plywood Corp Box 940 Aberdeen  
 Wash

Howard Mfg Co of California 2428 E 56th  
 Los Angeles 58 Cal  
 Johnson & Carlson 848 W Eastman Chicago  
 22 Ill  
 Johnson (C D) Lumber Co Div Georgia-  
 Pacific Plywood Co American Bank Bldg  
 Portland Ore  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY 6**  
**MO**  
 MacMillan & Bloedel Ltd 837 Hastings Van-  
 couver BC Canada  
 Martin Bros Box Co Oakland Ore  
 Mauk Seattle Lumber Co 3935 University  
 Way Seattle 5 Wash  
 Medford Corp Box 552 Medford Ore  
 Midwest Plywood Co 10101 Lyndon Detroit  
 21 Mich  
 Miller (Geo E) Lbr Co 617 Equitable Bldg  
 Kansas City Mo  
 Neils (J) Lumber Co Libby Mont New Mex-  
 ico  
 Pacific Mutual Door Co Tacoma Bldg Tacoma  
 Wash  
 Patrick Lumber Co Portland 5 Ore  
 Paxton (Frank) Lumber Co 6311 St John Av  
 Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Robinson Plywood & Timber Co Box 904 Ev-  
 eret Wash  
 St Maries Lumber Co St Maries Idaho  
**ST PAUL & TACOMA LUMBER CO 1220**  
**ST PAUL AV TACOMA WASH**  
 Simpson Logging Co White Bldg Seattle 1  
 Wash  
 Soderberg (Carl) Lumber Co Spokane 8 Wash  
 Templeton (Herbert A) Lumber Co Portland  
 5 Ore  
 Timber Prods Co Box 152 Medford Ore  
 US Challenge & Challenge Co 1441 N Kings-  
 bury Chicago 22 Ill  
 US Mengel Plywoods Inc Box 1612 Louis-  
 ville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W**  
**4TH NEW YORK 36 NY**  
 Webster (H E) Lumber Co 615 R A Long  
 Bldg Kansas City 6 Mo  
**WEYERHAEUSER SALES CO 1ST NA-  
 TIONAL BANK BLDG ST PAUL 1 MINN**

**▶ LUMBER, FLAMEPROOF**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Frost Lumber Industries Drawer 1125  
 Shreveport 90 La  
 Protex Corp 162 Market Kenilworth NJ

**▶ LUMBER, GUM**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
**ATLAS PLYWOOD CORP STATLER BLDG**  
**BOSTON MASS**  
 Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 1648 THOMAS**  
**AV MEMPHIS 1 TENN**  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Edens-Bireh Lumber Co Corrigan Tex  
**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
 VILLE MISS**  
 Frost Lumber Industries Drawer 1125  
 Shreveport 90 La  
 Hardwood Corp of America Box 1091 Ashe-  
 ville NC  
**HIGGINS INC BOX 8001 NEW ORLEANS**  
**LA**  
 Lightsay Bros Miley SC  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY**  
**6 MO**  
 Mansfield Hardwood Lbr Co 1166 Louisiana  
 Av Shreveport La  
 Marshall Lumber Co Box 559 Marion NC  
**MENGEL CO 4TH & COLORADO LOUIS-  
 VILLE 1 KY**  
 Miller & Co Inc Selma Ala  
 Paxton (Frank) Lumber Co 6311 St John Av  
 Kansas City Mo  
 Southern Pine Lumber Co Texarkana Tex  
 Twin City Hardwood Lumber Co 509 N Cleve-  
 land Av St Paul 14 Minn

**▶ LUMBER, HEMLOCK, WESTERN**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Babcock Lumber Co Frick Bldg Pittsburgh  
 19 Pa  
 Bradley Lumber Co Bradwood Ore  
 British Columbia Forest Prods Ltd 995 W  
 6th Av Vancouver 9 BC Canada  
 Cook County Lumber Co 200 E 130th Chicago  
 28 Ill  
 Firpine Prods Co Box 546 Oswego Ore  
 Giustina Bros Lumber Co Box 989 Eugene  
 Ore  
 Howard Mfg Co of California 2428 E 56th  
 Los Angeles 58 Cal  
 Johnson (C D) Lumber Co Div Georgia-  
 Pacific Plywood Co American Bank Bldg  
 Portland Ore  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY**  
**6 MO**  
 MacMillan & Bloedel Ltd 837 Hastings Van-  
 couver BC Canada  
 Martin Bros Box Co Oakland Ore

Mauk Seattle Lumber Co 3935 University Way  
 Seattle 5 Wash  
 Midwest Plywood Co 10101 Lyndon Detroit  
 21 Mich  
 Miller (Geo E) Lumber Co 617 Equitable  
 Bldg Portland 4 Ore  
 Pacific Mutual Door Co Tacoma Bldg Tacoma  
 Wash  
 Patrick Lumber Co Portland 5 Ore  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**ST PAUL & TACOMA LUMBER CO 1200**  
**ST PAUL AV TACOMA WASH**  
 Simpson Logging Co White Bldg Seattle 1  
 Wash  
 Templeton (Herbert A) Lumber Co Port-  
 land 5 Ore  
 US Mengel Plywoods Inc Box 1612 Louis-  
 ville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W**  
**4TH NEW YORK 36 NY**  
 Veach-May-Wilson Co Alcoa Tenn  
**WEYERHAEUSER SALES CO 1ST NATL**  
**BANK BLDG ST PAUL 1 MINN**

**▶ LUMBER, LARCH, WESTERN**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Cascade Lumber Co N 7th & "H" Yakima  
 Wash  
 Collins Pondersa Lumber Co Pondersa Ore  
 Cook County Lumber Co 200 E 130th Chicago  
 28 Ill  
 Firpine Prods Co Box 546 Oswego Ore  
 Mauk Seattle Lumber Co 3935 University  
 Way Seattle 5 Wash  
 Midwest Plywood Co 10101 Lyndon Detroit 21  
 Mich  
 Neils (J) Lumber Co Libby Mont  
 Pacific Mutual Door Co Tacoma Bldg Tacoma  
 Wash  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 St Maries Lumber Co St Maries Idaho  
 Soderberg (Carl) Lumber Co Spokane 8 Wash  
 US Mengel Plywoods Inc Box 1612 Louisville  
 1 Ky  
**WEYERHAEUSER SALES CO 1ST NATL**  
**BANK BLDG ST PAUL 1 MINN**

**▶ LUMBER, MAPLE**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
**BRUCE (E L) CO BOX 397 1648 THOMAS**  
**AV MEMPHIS 1 TENN**  
**CONNOR LUMBER & LAND CO 231**  
**THOMAS WAUSAU WIS**  
 Farrin (M B) Lumber Co Spring Grove &  
 Station Av Cincinnati Ohio  
 Griffith Lumber Co 917 Guaranty Bank Bldg  
 Huntington W Va  
 Hardwood Corp of America Box 1091 Ashe-  
 ville NC  
 Horner Flooring Co Box 104 Dollar Bay  
 Mich  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY 6**  
**MO**  
**MENGEL CO 4TH & COLORADO LOUIS-  
 VILLE 1 KY**  
 Miller & Co Inc Selma Ala  
 Paxton (Frank) Lumber Co 6311 St John  
 Av Kansas City Mo  
**RODDIS PLYWOOD CORP 1155 PALMETTO**  
**MARSHFIELD WIS**  
 Schreiber (Wm C) Lumber Co 2271 S Lum-  
 ber Chicago 16 Ill  
 Twin City Hardwood Lumber Co 509 N Cleve-  
 land Av St Paul 14 Minn  
 Veach-May-Wilson Co Alcoa Tenn

**▶ LUMBER, OAK, RED AND WHITE**

Aetna Plywood & Veneer Co 1731 N Elston  
 Av Chicago 22 Ill  
 Anderson-Tully Co Box 28 Memphis Tenn  
 Arkansas Oak Flooring Co 2200 W Fifth Av  
 Pine Bluff Ark  
 Atlantic Lumber Co 88 Broad Boston 4 Mass  
 Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 MEMPHIS 1**  
**TENN**  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Dierks Lumber & Coal Co 700 Dierks Bldg  
 Kansas City Mo  
 Edens-Bireh Lumber Co Corrigan Tex  
**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
 VILLE MISS**  
 Farrin (M B) Lumber Co Spring Grove &  
 Station Av Cincinnati Ohio  
 Frost Lumber Industries Drawer 1125  
 Shreveport 90 La  
 Griffith Lumber Co 917 Guaranty Bank Bldg  
 Huntington W Va  
 Hardwood Corp of America Box 1091 Ashe-  
 ville NC  
**LONG-BELL LUMBER CO R A LONG**  
**BLDG 926-8 GRAND AV KANSAS CITY**  
**6 MO**  
 Mansfield Hardwood Lumber Co 1166 Louisi-  
 ana Av Shreveport La  
 Marshall Lumber Co Box 559 Marion NC  
**MENGEL CO 4TH & COLORADO LOUIS-  
 VILLE 1 KY**  
 Miller & Co Inc Selma Ala  
 Paxton (Frank) Lumber Co 6311 St John  
 Av Kansas City Mo  
 Phillips Wood Prods Co Inc Box 699 Brook-  
 haven Miss

**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Southern Pine Lumber Co Diboll Tex  
Stewart (E A) Lumber Co Inc Box 1777 Texarkana Tex  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
Veach May Wilson Co Alcoa Tenn  
Wood Prods Co 421 Phillips Av Toledo 12 Ohio

**▶ LUMBER, PECAN**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Bradley Lumber Co of Ark Warren Ark  
**CROSSETT LUMBER CO CROSSETT ARK MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Southern Pine Lumber Co Texarkana Tex  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn

**▶ LUMBER, PINE, PONDEROSA**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
Brooks-Seanlon Inc Bend Ore  
**BRUCE (E L) CO 1648 THOMAS AV BOX 397 MEMPHIS 1 TENN**  
Cascade Lumber Co N 7th & "H" Yakima Wash  
Collins Ponderosa Lumber Co Ponderosa Ore  
Cook County Lumber Co 200 E 130th Chicago 28 Ill  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
Martin Bros Box Co Oakland Ore  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Medford Corp Box 552 Medford Ore  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich

Neils (J) Lumber Co Libby Mont  
New Mexico Timber Co Box 988 Albuquerque NM  
Oregon Lumber Co Baker Ore  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Patrick Lumber Co Portland 5 Ore  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Pickering Lumber Corp Standard Cal  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
St Maries Lumber Co St Maries Idaho  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Soderberg (Carl) Lumber Co Spokane 8 Wash  
Templeton (Herbert A) Lumber Co Portland 5 Ore  
Timber Prods Co Box 152 Medford Ore  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY**  
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**  
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn  
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

**▶ LUMBER, PINE, SUGAR**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
Martin Bros Box Co Oakland Ore  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Medford Corp Box 552 Medford Ore  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Patrick Lumber Co Portland 5 Ore  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Pickering Lumber Corp Standard Cal  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Soderberg (Carl) Lumber Co Spokane 8 Wash  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY**  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**  
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn

Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

**▶ LUMBER, PINE, WHITE, IDAHO**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
Contact Lumber Co 719 Corbett Bldg Portland 4 Ore  
Cook County Lumber Co 200 E 130th Chicago 28 Ill  
Marshall Lumber Co Box 559 Marion NC  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
Neils (J) Lumber Co Libby Mont  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
St Maries Lumber Co St Maries Idaho  
Soderberg (Carl) Lumber Co Spokane 8 Wash  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY**  
US Mengel Plywoods, Inc Box 1612 Louisville 1 Ky  
Veach-May-Wilson Co Alcoa Tenn  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**  
Woodward Lumber Co 1424 Vance Bldg Seattle 1 Wash

**▶ LUMBER, PINE, WHITE, NORTHERN**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill  
**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**

**▶ LUMBER, PINE, YELLOW, SOUTHERN**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Arrow Tank Co 16 Barnett Buffalo 15 NY  
Atlantic Lumber Co 88 Broad Boston 4 Mass  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN**  
Crawford Corp 1901 N 3rd Baton Rouge La  
**CROSSETT LUMBER CO CROSSETT ARK**  
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo  
Ebens-Birch Lumber Co Corrigan Tex  
**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**  
Frost Lumber Industries Drawer 1125 Shreveport 90 La  
Kendal Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa  
Lightsey Bros Miley SC  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
Mansfield Hardwood Lbr Co 1166 Louisiana Av Shreveport La  
**MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
Miller & Co Inc Selma Ala  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Phillips-Rhyme Lumber Co Inc Box 699 Brookhaven Miss  
Phillips Wood Prods Co Inc Box 699 Brookhaven Miss  
Southern Pine Lumber Co Diboll Tex  
Veach-May-Wilson Co Alcoa Tenn

**▶ LUMBER, POPLAR**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN**  
**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**  
Farrin (M B) Lumber Co Spring Grove & Station Av Cincinnati Ohio  
Griffith Lumber Co 917 Guaranty Bank Bldg Huntington W Va  
Hardwood Corp of America Box 1099 Asheville NC  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**

**MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
Miller & Co Inc Selma Ala  
Parkay Inc Highland Park Louisville Ky  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
Veach-May-Wilson Co Alcoa Tenn

**▶ LUMBER, REDWOOD**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Arrow Tank Co 16 Barnett Buffalo 15 NY  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
Cook County Lumber Co 200 E 130th Chicago 28 Ill  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
National Pacific Timber Prods Inc 7161 Telegraph Rd Los Angeles 22 Cal  
**PACIFIC LUMBER CO 100 BUSH SAN FRANCISCO CAL**  
Pacific Lumber Co Portland 5 Ore  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Simpson Logging Co White Bldg Seattle 1 Wash  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
Union Lumber Co 620 Market Bldg San Francisco 4 Cal  
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
Webster (H E) Lumber Co 615 R A Long Bldg Kansas City 6 Mo

**▶ LUMBER, SPRUCE, SITKA**

Aetna Plywood & Veneer 1731 N Elston Av Chicago 22 Ill  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
Babeock Lumber Co Frick Bldg Pittsburgh 19 Pa  
Cook County Lumber Co 200 E 130th Chicago 28 Ill  
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore  
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
Neils (J) Lumber Co Libby Mont  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Patrick Lumber Co Portland 5 Ore  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 4TH NEW YORK 36 NY**  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**  
Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn

**▶ MAIL BOXES & DROPS**

Adams Co Box 268 Dubuque Iowa  
Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN DEVICE MFG CO STEELVILLE ILL**  
**AUTH ELECTRIC CO INC 31-20 45th LONG ISLAND CITY 1 NY**  
**B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO**  
Baldwin Mfg Corp 1290 Central Av Hillside Ill  
Bommer Spring Hinge Co Inc Landrum SC  
Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati 2 Ohio  
Champion Hdwe Co Geneva Ohio  
Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 6 OHIO**  
Cipco Corp 22nd & Cole St Louis 8 Mo  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
**COFFMAN (R G) CO INC 2809 N ORANGE AV ORLANDO FLA**  
Collins (George F) Co Sapulpa Okla  
Columbus Plastic Prods Inc 1623 W Mound Columbus Ohio  
**CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**

Couch (S H) Co Inc 1 Arlington North Quincy Mass  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 1409 MADISON AV SE GRAND RAPIDS 2 MICH**  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Eero Mfg Co 2368 N Elston Av Chicago 14 Ill  
 Fawcett Mfg Div Falls Stamping & Welding Co 1703 Front Cuyahoga Falls Ohio  
 Fiwale Equipment Mfg Co 105 Reade New York 13 NY  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
 Judd (H L) Co 87 Chambers New York 7 NY  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE ST AT LARCH COOPERSVILLE MICH**  
**McKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA**  
 Norwalk Lock Co Div Segal Lock & Hdwe Co 395 Broadway New York 13 NY  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Penn-Greg Mfg Co 562-7th Av N Minneapolis 11 Minn  
 Perfection Store Device Co 637 E 71st Chicago 19 Ill  
 Reflecto Letters 411 E 101st New York 29 NY  
 Safe Padlock & Hdwe Co 2nd & Crystal Lancaster Pa  
 Sager-Barrows Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER ST NEW HAVEN CONN**  
 Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
 Slaymaker Lock Co Lancaster Pa  
 Sperti Faraday Inc 1322 Church Adrian Mich  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
 Trego Industries Box 211 Red Oak Tex  
 Wiemann (Ernest) Iron Wks 2035 E 11th Tulsa 4 Okla  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

### ▶ MANDRELS, SAW

Beach Mfg Co Montrose Pa  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Chase Turbine Mfg Co Orange Mass  
 Clisbe Bros Mfg Co Plymouth Ind  
 Consolidated Machinery & Supply Co Ltd 2029 Santa Fe Av Los Angeles 21 Cal  
 Corinth Machinery Co Corinth Miss  
 Cunningham Machinery Corp 735 Ricon Shreveport La  
 Enterprise Co S Main St Columbiana Ohio  
 Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio  
 Filer & Stowell Co 147 E Becher Milwaukee 7 Wis  
 Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
 Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
 Lane Mfg Co Montpelier Vt  
 Milwaukee Hay Tool Co 2773 S 29th Milwaukee 46 Wis  
 Prescott Co Menominee Mich  
 Western Foundry & Co 2400 SW Water Av Portland 1 Ore  
 Yates-American Machine Co Beloit Wis

### ▶ MANTELS, FIREPLACE

Burke Millwork Co Seattle 3 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Cole Mfg Co Memphis 2 Tenn  
 Columbia Mfg Co 845 S 9th Louisville 3 Ky  
**CURTIS COS INC 1200 S SECOND CLINTON IOWA**  
 Farley & Loetscher Mfg Co Dubuque Iowa  
 Goshen Sash & Door Co E Purl St Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
 Huttig Mfg Co Muscatine Iowa  
 Ideal Co 24th & Mary Sts Waco Tex  
 Marquart Millwork Co Oshkosh Wis  
 Morgan Co 520 Oregon Oshkosh Wis  
**READYBUILT PRODS CO 1705-23 MC-HENRY BALTIMORE 23 MD**  
 Roach & Musser Co Muscatine Iowa  
 Serelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
 Semling-Menke Co S Nast St Merrill Wis  
 Sneedaker (Frank) C & Co Inc 3531 N 9th Philadelphia 40 Pa

### ▶ MESH, WIRE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
**CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN**

Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
**CURTIS COS INC 1200 S SECOND CLINTON IOWA**  
 Cyclone Fence Dept American Steel & Wire Div US Steel Corp Box 260 Waukegan 1 Ill  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**  
 Myers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
 Northwestern Steel & Wire Co Sterling Ill  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
 Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Smith (F P) Wire & Iron Wks Inc 2340 N Clybourn Av Chicago 14 Ill  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
 Wheeling Corrugating Co Wheeling W Va  
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**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 515 MADISON AV NEW YORK 19 NY**

### ▶ METAL LATH MACHINES, CUTTER

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 Seritchfield Mfg Co 1783 Logan Av San Diego 13 Cal

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**LUFKIN RULE CO SAGINAW MICH**  
 Miller Falls Co Wells & Devon Greenfield Mass  
 Starrett (L S) Co 101 Crescent Athol Mass

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Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
 Bache (Semon) & Co 636 Greenwich New York 14 NY  
 Belknap Glass Co 1000 Valley Seattle 1 Wash  
 Cadillac Glass Co 2100 S Peoria Chicago 8 Ill  
**CAREY (PHILIP) MFG CO 516 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
 Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill  
 Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa  
 Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Dearborn Glass Co 2402 W 21st Chicago 8 Ill  
 Faries Mfg Co 1060 E Grand Av Decatur Ill  
 Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio  
**HALL-MACK CO 1344 W WASHINGTON BLVD LOS ANGELES 7 CAL**  
 Hess Co 1855 S 54th Av Chicago 50 Ill  
**MECHANICAL MIRROR WKS INC 661-663 EDGECOMBE AV NEW YORK 32 NY**  
**MIAMI CABINET DIV CAREY (PHILIP) MFG CO MIDDLETOWN OHIO**  
 National Metal-Art Mfg Co 1900 8th Av Brooklyn 15 NY  
 National Mirror Wks 1925 Kishwaukee Rockford Ill  
 Nurro Cos Inc Bloomington Ind  
 Parker (Charles) Co 50 Hanover Meriden Conn  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Standard Mirror Co 141 Milton & PRR Buffalo NY  
 Standard Steel Cabinet Co 3711 N Milwaukee Chicago 11 Ill  
 Toledo Plate & Window Glass Co 1041 Utica Toledo 2 Ohio

### ▶ MIRRORS, DECORATIVE & HOUSEHOLD

Aeme Specialty Mfg Co Thomas & Smead Av Toledo 6 Ohio

Art Mirror & Glass Specialty Co 4401 W Carroll Chicago 11 Ill  
 Bache (Semon) & Co 636 Greenwich New York 14 NY  
 Belknap Glass Co 1000 Valley Seattle 1 Wash  
**BINSWANGER & CO 207 N MAIN HOUSTON 1 TEX**  
 Cadillac Glass Co 2100 S Peoria Chicago 8 Ill  
 Century Industries Inc 1521 W 35th Chicago 11 Ill  
 Conroy-Prough Glass Co 1430 Western Av Pittsburgh Pa  
 Dearborn Glass Co 2402 W 21st Chicago 8 Ill  
 Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn  
 Fuller (W P) & Co 301 Mission San Francisco 19 Cal  
 Hagemann Cos Inc 2145 Central Pkwy Cincinnati 14 Ohio  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 11 Ill  
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 National Metal Prods Co Waterloo Iowa  
 National Mirror Wks 1925 Kishwaukee Rockford Ill  
 Nurro Cos Inc Bloomington Ind  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY  
 Standard Mirror Co 141 Milton & PRR Buffalo NY  
 Toledo Plate & Window Glass Co 1041 Utica Toledo Ohio  
 Tyler & Hippach Glass Co 2949 N Paulina Chicago 13 Ill  
 Warren Co Atlanta Ga

### ▶ MIRRORS, TRANSPARENT

Bache (Semon) & Co 636 Greenwich New York 14 NY  
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**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**

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**B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO**  
 Empire Level Mfg Co Box 97 Milwaukee 13 Wis  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
 McGrath-St Paul Co 242 E Fifth St Paul 1 Minn  
 Millers Falls Co Greenfield Mass  
 National Guard Prods 757 Madison Memphis 7 Tenn  
 Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

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Architectural Model Materials Inc 4208 W Armitage Av Chicago 39 Ill  
 Homes Center 720 Washington Av SE Minneapolis 1 Minn  
 Jayline Mfg Co Inc Egg Harbor NJ  
 Mitchell Models 536 Chimers St Joseph Mich  
 National Plan Service Inc 1315 W Congress Chicago 7 Ill

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Algoma Mfg Co Box 252 Algoma Wis  
 American Textile Prods Co 5606 Euclid Cleveland 3 Ohio  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Graham (John H) Co Inc 105 Duane New York 8 NY  
 Lehon Co 4425 S Oakley Chicago 9 Ill  
 Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio

### ▶ MORTAR

Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 Huron Portland Cement Co 1325 Ford Bldg Detroit 26 Mich  
**MEDUSA PORTLAND CEMENT CO 1000 MIDLAND BLDG CLEVELAND 15 OHIO**  
 Mexico Refractories Co Love & Cole Sts Mexico Mo  
 National Lime & Stone Co First National Bank Bldg Findlay Ohio  
 Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
 Washington Brick & Lime Co Spokane 8 Wash  
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 American Sheet Metal Wks New Orleans La  
 Steel Steel Wks 1211 W 27th Kansas City  
 8 Kan  
 Berger Furnace Mfg Co 5920 Centre Av  
 Pittsburgh 6 Pa  
 Bostwick Steel Lath Co 101 Heaton Av Niles  
 Ohio  
 Donley Bros Co 13910 Miles Av Cleveland 5  
 Ohio  
 Essick Mfg Co 1950 S Santa Fe Av Los Angeles  
 21 Cal  
**GOLDBLATT TOOL CO 1910 WALNUT  
 KANSAS CITY 8 MO**  
 Harris Inc 200 E Long Columbus Ohio  
 Jackson Mfg Co Cameron & Lochiel Rd Harris-  
 burg Pa  
**KEWANEE MFG CO 150 BURLINGTON AV  
 KEWANEE ILL**  
 Kewanee Mfg Co 150 Burlington Av Kewanee  
 Ill  
 Mar-Rail Conveyor Co 560 York Av Paw-  
 tucket RI  
**PRICE FIREPLACE HEATER & TANK  
 CORP 195 W AUSTIN BUFFALO 7 NY**  
 Richmond Engineering Co Inc 7th & Hospital  
 Richmond 5 Va  
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► **MORTISERS, VIBRATING BIT**

**DE WALT INC FOUNTAIN AV LANCAS-  
 TER PA**  
 Forest City Bin & Tool Co 1206 Kishwaukee  
 Rockford Ill  
**KNIGHT MFG CO 2930 S WASHINGTON  
 SAGINAW MICH**  
 Oliver Machinery Co 1025 Clancy Av NE  
 Grand Rapids 2 Mich  
 Whitney (Baxter D) & Sons Inc Winchendon  
 Mass

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**ALLIS-CHALMERS MFG CO 1126 S 70TH  
 MILWAUKEE 1 WIS**  
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**BOICE-CRANE CO 930 W CENTRAL AV  
 TOLEDO 6 OHIO**  
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**DELCO APPLIANCE DIV GENERAL MO-  
 TORS CORP ROCHESTER NY**  
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 Ohio  
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 Piqua Ohio  
 Robbins & Myers Co 1345 Lagonda Av  
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 9 Ill  
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 CONN**  
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 Wagner Electric Corp 6400 Plymouth Av  
 St Louis 14 Mo  
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 Cal

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 York 51 NY  
 Barclay Mfg Co Inc 385 Gerard Av Bronx  
 N Y  
 Colotype Tyle-Bord Inc 975 John Seattle 9  
 Wash  
 DeSoto Hardwood Flooring Co Dudley &  
 Sledge Memphis Tenn  
 Forest Fiber Prods Corp Box 68 AB For-  
 est Grove Ore  
 Gibbs Boardtile Corp 638 N Aberdeen Chi-  
 cago 22 Ill  
**MARSH WALL PRODS INC 5032 MAIN  
 DOVER OHIO**  
 Miratile Mfg Co Dept F 600 W 81st Chicago  
 20 Ill  
 National Tileboard Corp 1314 Blondell Av  
 New York 61 NY  
 Prestile Mfg Co 5850 Ogden Av Chicago 50  
 Ill  
 Tex-A-Panel Mfg Co 10848 Harry Hines Blvd  
 Dallas Tex  
 Tylac Co Monticello Ill  
 Wallace Mfg Co 10th & Fayette North Kan-  
 sas City 16 Mo

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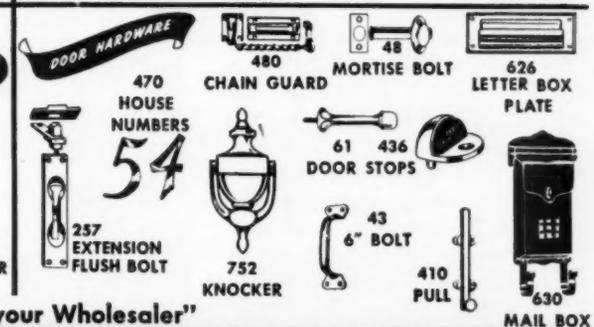
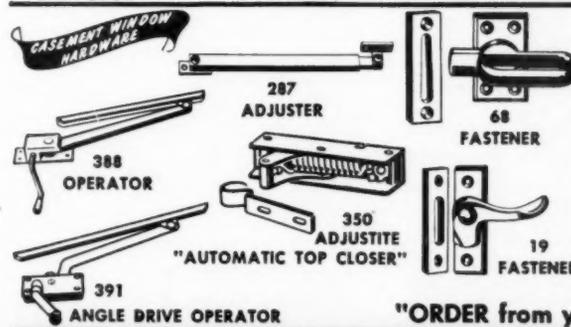
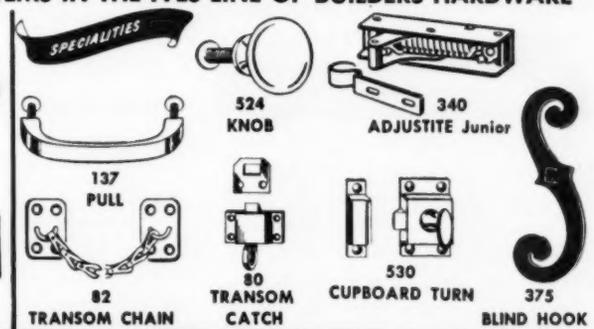
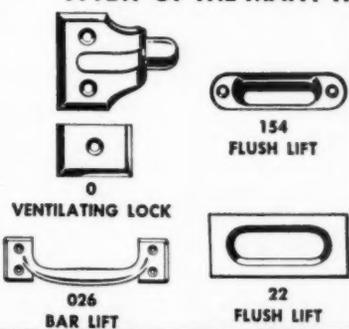
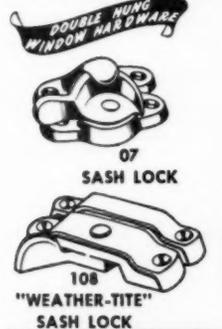
**A & F TILEBOARD CO LEE & ROY STS  
 BOX 4085 ALEXANDRIA LA**  
**AETNA STEEL PRODS CORP 730 FIFTH  
 AV NEW YORK 19 NY**  
 Allen Mfg Co 201 W Walnut Painesville Ohio  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd  
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 OHIO CHICAGO ILL**  
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 Aluminum Co of America 1501 Alcoa Bldg  
 Pittsburgh 19 Pa  
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 WATERBURY 20 CONN**  
 Ames Metal Moulding Co 227 E 144th New  
 York 51 NY  
**ARMSTRONG CORK CO BUILDING MA-  
 TERIAL DIV 1010 CONCORD LANCAS-  
 TER PA**  
**B & T METALS CO 425 W TOWN COLUM-  
 BUS 16 OHIO**  
 Barclay Mfg Co Inc 385 Gerard Av Bronx  
 NY  
**BENDIX MFG CO 192 LEXINGTON AV  
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 Blum (Julius) & Co Inc 532 W 22nd New  
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Chicago 12 Ill  
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Colotype Tyle-Bord Inc 975 John Seattle 9  
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Devorite Inc 2116 Peachtree Rd NW Atlanta  
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East Coast Tileboard Corp 41-59 Wyckoff Av  
Brooklyn 37 NY  
Ford Metal Moulding Corp 27-01 Bridge  
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cago 22 Ill  
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Harvey Machine Co Inc 190th St at Western  
Av Torrance Cal  
Herron-Zimmers Moulding Co 3920 E Outer  
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HAM MILWAUKEE 1 WIS**  
Jamalea Sash & Door Co 1655 Jericho Turn-  
pike New Hyde Park NY  
**KAWNEER CO 1105 N FRONT NILES MICH**  
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Knapp Bros Mfg Co 16 E 72nd Cincinnati  
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phia 7 Pa

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Protex Weatherstrip Mfg Co 4508 S Western  
Av Chicago 11 Ill

Pyramid Mouldings Inc 5353 W Armstrong  
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Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa

Wooster Prods Inc Wooster Ohio

**YOUNGSTOWN MFG INC 66-76 S PROSP-  
ECT YOUNGSTOWN OHIO**

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Gits Molding Corp 4600 W Huron Chicago  
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Herron-Zimmers Moulding Co Detroit Mich

Imperial Molded Prods Corp 2925 Harrison  
Chicago 12 Ill

Johnson Plastics Corp Box 212 Chagrin Falls  
Ohio

Keller Prods Inc 41 Union Manchester NH

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Sierra Elec & Mfg Co 544 E 51st Los Angeles  
Cal

Superior Plastics Inc 410-430 N Oakley Blvd  
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delphia 43 Pa

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Angelina Hardwood Sales Co Box 1020 Wil-  
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Arkansas Oak Flooring Co 2200 W Fifth Av  
Pine Bluff Ark

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Park Chicago 41 Ill

Cole Mfg Co Box 2657 Memphis 2 Tenn

Collins Pondera Lumber Co Pondera Ore

Contact Lumber Co 119 Corbett Bldg Port-  
land 4 Ore

Crombie Co Salsquehanna St Williamsport Pa

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CURTIS COS INC 1200 S SECOND CLIN-  
TON IOWA**

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Diamond Match Co Chico Cal

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Elons-Birch Lumber Co Corrigan Tex

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Frost Lumber Industries Inc Drawer 1125  
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Huttig Mfg Co Muscatine Iowa

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Rock Island Millwork Co Rock Island Ill

Scottdale Wood Prods Inc Box 36 Scottdale  
Pa

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Wis

Seneca Lumber & Millwork Co 635-704 W  
Tiffin Fosteria Ohio

Shadowood 15058 Delano Van Nuys Cal

Silerest Co 100 Thomas Wausau Wis

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Southern Lumber Co Warren Ark

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Warren (J D) Mfg Co Montpelier Ohio

Washington Mfg Co Tacoma 1 Wash

Weinberg-Haer Co 405 26th Av Long Island  
City 3 NY

WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN  
White Pine Sash Co East 4095 Broadway  
Spokane Wash  
Willamette Valley Lumber Co Dallas Ore  
Williams-Brownell Inc Box 1091 Asheville NC  
Winton Lumber Sales Co 2600 Foshay Tower  
Minneapolis 2 Minn  
Williams (J L) & Sons Sheridan Ark  
Woodward Lumber Co 1424 Vance Bldg  
Seattle 1 Wash

### ► MOULDINGS, WOOD VENEER-ON-METAL

Ames Metal Moulding Co 225 E 144th New York 51 NY  
Colonial Sales Corp 928 Broadway New York 10 NY  
Keller Prods Inc 41 Union Manchester NH  
Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
U'S PLYWOOD CORP 55 W 44TH NEW YORK 36 NY  
Williams Prods Co Inc 1627 Cedar Av Philadelphia 43 Pa

### ► NAIL PULLERS

Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn  
Crescent Tool Co 200 Harrison Jamestown NY  
Drew (C) & Co Inc Maple St Kingston 7 Mass  
K-D Mfg Co 526 N Plum Lanaster Pa  
Markwell Mfg Co 200 Hudson New York 13 NY  
Union Hdwe Co Sealand Inc Torrington Conn  
Warren Tool Corp Box 791 Warren Ohio  
Woodings-Verona Tool Wks 1947 Thomas Verona Pa

### ► NAIL SETS

Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn  
Damascus Steel Prods Corp 2199 W Kishwaukee Rockford Ill  
Drew (C) & Co Inc Maple St Kingston 7 Mass  
Hood Bros 4326 Orchard Frankford Philadelphia 24 Pa  
Mayhew Steel Prods Inc Sears St Ext Shelburne Falls Mass  
McPherson-Huff Tool Co Sabina Ohio  
Millers Falls Co Wells & Devon Greenfield Mass  
Polis (J D) Mfg Co 2904 W 26th Chicago 23 Ill  
Rainey-Tools Grove City Pa  
STANLEY WKS 111 ELM AV NEW BRITAIN CONN  
Starrett (L S) Co 101 Crescent Athol Mass  
Syracuse Twist & Drill Co Inc 1046 S Townsend Syracuse 3 NY  
Tuck Mfg Co 74 Ames Brockton 39 Mass  
Union Tool Co 48 E River Orange Mass

### ► NAIL & BOLT ANCHORS

Devises Inc 214 E 53rd New York 22 NY  
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL  
Polis (J D) Mfg Co 2904 W 26th Chicago 23 Ill  
US Expansion Bolt Co State St & PRR York Pa

### ► NAILERS & TACKERS, AUTOMATIC

Acme Staple Co 1643 Haddon Av Camden 3 NJ  
Holler Co 2135 Superior Av Cleveland 14 Ohio  
SPOTNAILS INC 1527 LYONS EVANSTON ILL

### ► NAILING MACHINES

Doig (W S) Inc 894 Manhattan Av Brooklyn NY  
Grammes (L F) & Sons Inc 380 Union Al-lentown Pa  
HOLT MFG CO 651 20TH OAKLAND 12 CAL  
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS  
POWERNAIL CO 961 MONTANA CHICAGO 14 ILL

### ► NAILS, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Atlas Tack Corp S Pleasant St Fairhaven Mass  
Braun (J G) Co 615 S Paulina Chicago 12 Ill  
Eastern Nail Co 50 Aleppo Providence 9 RI  
HASSALL (JOHN) INC WESTBURY LI NY

Maze (W H) Co Church & the River Peru Ill  
National Plywoods Inc 2710 Throop Chicago Ill  
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA  
Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY  
Wells Specialty Co North Liberty Ind

### ► NAILS, COMMON

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
Atlas Tack Corp S Pleasant Fairhaven Mass  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bambrick (Richard J) 125 Broad New York 4 NY  
Berger Mfg Div Republic Steel Corp 1038 Belden Av Canton 5 Ohio  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp 1109 S Main Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Elastic Stop Nut Corp of America 2330 Vauhall Rd Union NJ  
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA  
HASSALL (JOHN) INC WESTBURY LI NY  
Illinois Nail Co 826 Peoria Chicago Ill  
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS  
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL  
Mid States Steel & Wire Co Crawfordsville Ind  
NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
Valentine Equipment Co 561 W Washington Chicago Ill  
Wash Co Inc 720 N Bowman Av Danville Ill  
Wickwire Bros Inc 189 Main Cortland NY  
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY  
Wilson Steel & Wire Co W 49th & S Western Av Chicago Ill  
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

### ► NAILS, COPPER

AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
Atlas Tack Corp S Pleasant Fairhaven Mass  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
HASSALL (JOHN) INC WESTBURY LONG ISLAND NY  
Hussey Co 2860 Second Pittsburgh 19 Pa  
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS  
TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN

### ► NAILS, CUT

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
Colorado Fuel & Wire Corp Continental Oil Bldg Denver 2 Colo  
Continental Steel Corp 1109 S Main Kokomo Ind  
National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio  
Shelton Tack Co 103 Canal Shelton Conn

Tremont Nail Co 21 Elm Wareham Mass  
Wheeling Corrugating Co Wheeling W Va  
Wheeling Steel Corp Wheeling W Va  
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

### ► NAILS, FLOORING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Camp Co Inc 6958 S State Chicago 21 Ill  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp 1109 S Main Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Cromar Co Susquehanna St Williamsport Pa  
Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS  
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL  
Maze (W H) Co Church & the River Peru Ill  
Mid States Steel & Wire Co Crawfordsville Ind  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
SPOTNAILS INC 1527 LYONS EVANSTON ILL  
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
Tremont Nail Co 21 Elm Wareham Mass  
Valentine Equipment Co 561 W Washington Chicago Ill  
Wheeling Corrugating Co Wheeling W Va  
Wickwire Bros Inc 189 Main Cortland NY  
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

### ► NAILS, LATH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp 1109 S Main Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA  
KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL  
Mid States Steel & Wire Co Crawfordsville Ind  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
PENN METAL CO INC 205 E 42ND NEW YORK 17 NY  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
Valentine Equipment Co 561 W Washington Chicago Ill  
Wickwire Bros Inc 189 Main Cortland NY

### ► NAILS, LEAD HEAD

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal

Continental Steel Corp 1109 S Main Kokomo Ind  
 Deniston Co 4856 S Western Av Chicago 9 Ill  
 Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
**INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS**  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Maze (W H) Co Church & the River Peru Ill  
 Mid States Steel & Wire Co Crawfordsville Ind  
 National Lead Co 111 Broadway New York 6 NY  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 Wheeling Corrugating Co Wheeling W Va

### ▶ NAILS, MASONRY

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
 Heckmann Building Prods Co 4018 W Lake Chicago 24 Ill  
 Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio  
**INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS**  
 Parker-Kalon Corp 200 Varick New York 14 NY  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Star Expansion Bolt Co 147-149 Cedar New York 6 NY  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 Tremont Nail Co 21 Elm Wareham Mass  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ NAILS, ROOFING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
 Atlas Tack Corp S Pleasant Fairhaven Mass  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Hambrick (Richard J) 125 Broad New York 4 NY  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Camp Co Inc 6958 S State Chicago 21 Ill  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
 Crescent Brass & Pin Co 5760-5800 Trumbull Av Detroit 8 Mich  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Deniston Co 4856 S Western Av Chicago 9 Ill  
 Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
 E G Building Fasteners Corp 101 Park Av New York 17 NY  
 Fanner Mfg Co Brookside Park Cleveland 9 Ohio  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
**INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS**  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**

Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Maze (W H) Co Church & the River Peru Ill  
 Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 Valentine Equipment Co 561 W Washington Chicago Ill  
 Wickwire Bros Inc 189 Main Cortland NY  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**  
 Wilson Steel & Wire Co 4840 S Western Av Chicago Ill  
 Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

### ▶ NAILS, SCREW-TYPE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
 Atlas Tack Corp S Pleasant Fairhaven Mass  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Camp Co Inc 6958 S State Chicago 21 Ill  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Deniston 4856 S Western Av Chicago 9 Ill  
 Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
 E G Building Fasteners Corp 101 Park Av New York 17 NY  
**HASSALL (JOHN) INC WESTBURY LI NY INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS**  
 Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Parker-Kalon Corp 200 Varick New York 14 NY  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
**REYNOLDS METALS CO BUILDING PRODS DIV 2901 NINTH LOUISVILLE 1 KY**  
 Stronghold Screw Prods 1883 W Winnemac Av Chicago 40 Ill

### ▶ NAILS, SELFLOCKING

E G Building Fasteners Corp 101 Park Av New York 17 NY  
 Elastic Stop Nut Corp of America 2350 Vauxhall Rd Union NJ

### ▶ NAILS, SHINGLE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
 Atlas Tack Corp S Pleasant Fairhaven Mass  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
**CHASE BRASS & COPPER CO INC 236 GRAND AV WATERBURY 20 CONN**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Dickson Weatherproof Nail Co 1900 Greenwood Av Evanston Ill  
 E G Building Fasteners Corp 101 Park Av New York 17 NY  
 Elastic Stop Nut Corp of America 2350 Vauxhall Rd Union NJ

**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
**INDEPENDENT NAIL & PACKING CO STONE ST BRIDGEWATER MASS**  
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Maze (W H) Co Church & the River Peru Ill  
 Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
**REYNOLDS METALS CO BUILDING PRODS DIV 2901 S NINTH LOUISVILLE 1 KY**  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 Wickwire Bros Inc 189 Main Cortland NY  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**  
 Wilson Steel & Wire Co 4840 S Western Av Chicago Ill  
 Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

### ▶ NAILS, WALLBOARD

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Angell Nail & Chaplet Co 4580 E 71st Cleveland Ohio  
 Atlas Tack Corp S Pleasant Fairhaven Mass  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
**GLEF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
**HASSALL (JOHN) INC WESTBURY LI NY**  
 Maze (W H) Co Church & the River Peru Ill  
 Mid States Steel & Wire Co Crawfordsville Ind  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Republic Steel Corp Republic Bldg Cleveland Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Valentine Equipment Co 561 W Washington Chicago Ill  
 Wickwire Bros Inc 189 Main Cortland NY

### ▶ NAME PLATES

Colonial Brass Co Davis St Middleboro Mass  
**CORBIN (P F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**  
 Ero Mfg Co 2368 Elston Av Chicago 14 Ill  
**LOCKWOOD HDWE MFG CO 1950 CLEGHORN FITCHBURG MASS**  
 Standard Bronze Co 179 W 5th Bayonne 20 NJ  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
 Turner Brass Wks s21 Park Av Sycamore Ill

### ▶ NETTING, WIRE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Continental Steel Corp 1109 S Main Kokomo Ind  
 Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn  
 Indiana Steel & Wire Co Muncie Ind  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Mid States Steel & Wire Co Crawfordsville Ind  
 Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Republic Steel Corp Republic Bldg Cleveland Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 Wickwire Bros Inc 189 Main Cortland NY  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

# calder

Wedge Tight

for

RESIDENTIAL and COMMERCIAL use

OVERHEAD SECTIONAL GARAGE DOORS

## STOCK SIZES

	Sturdy	Leveline	Paraline	Triline	Keystone
8' x 6'6" x 1 3/8"	*	*	*	*	*
8' x 7'	*	*	*	*	*
8' x 7'6"	*	*	*	*	*
8' x 8'	*	*	*	*	*
9' x 6'6"	*	*	*	*	*
9' x 7'	*	*	*	*	*
10' x 7'	*	0	0	0	0
14' x 7' x 1 3/8"	*	*	*	*	*
15' x 7'	*	*	0	0	*
16' x 6'6"	*	*	*	*	*
16' x 7'	*	*	0	0	*
15' x 7' x 1 3/8"	*	0 These items available in quantities of 25 or more. Flush doors-solid panel or glazed at factory. Available any size; any quantity.			
16' x 7' x 1 3/8"	*	In addition to Sturdy door stock sizes shown, doors are made in any size, shape or design for any purpose. Doors larger than 12x12 should be equipped with chain lift or Electric Operator.			
8' x 8' x 1 3/4"	*	Center Track for Wide Doors.			
10' x 8'	*				
10' x 10'	*				
10' x 12'	*				
10' x 14'	*				
12' x 8'	*				
12' x 10'	*				
12' x 12'	*				
12' x 14'	*				

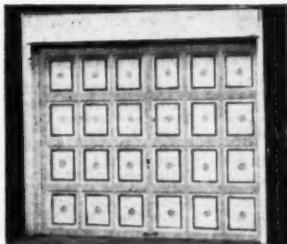
Complete line of Radio Controlled Electric Operators plus Heavy Duty Electric Operators for Heavy Doors



**SERVICE STATION DOORS**  
(With or Without pass door as shown) and  
**HIGH LIFT TORSION SPRINGS**  
made to any specification

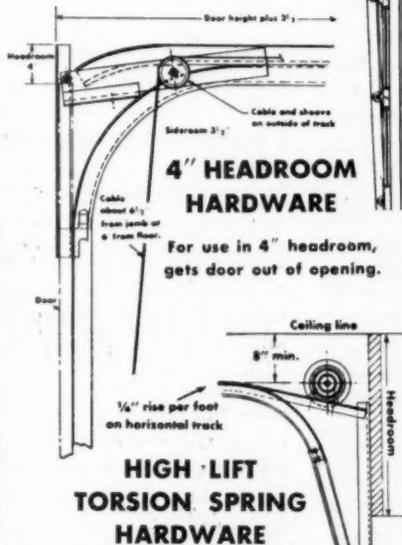
Beautiful Custom Door Effects  
Every Door Different

Various Rosettes and Half Round Strips Stocked by Dealers make possible a different design for every door of any style shown. By using color contrasts an endless variety of stylized doors are possible.

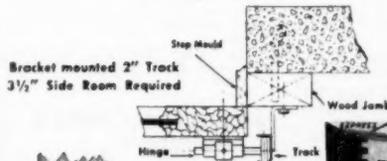
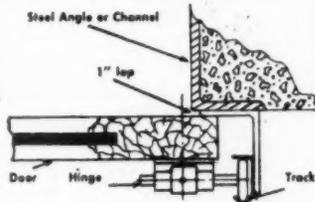


## THE Wedge Tight TRACK

Wedge Tight Hardware with Extension Springs SHOWN (Torsion Springs also available). Vertical tracks slope away from jamb approximately 1/4" per door section, providing the Wedge Tight action, tight closure and easy operation. Hinges progressively offset to conform to slope of track.

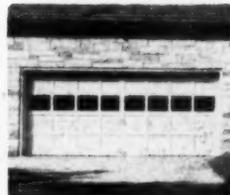


## STEEL JAMB MOUNTING



RUBBER ASTRAGAL AVAILABLE

## STOCK TYPES



STURDY



LEVELINE



PARALINE



TRILINE



FLUSH



KEystone



COMMERCIAL

# calder

MANUFACTURING CO. LANCASTER 12, PENNA.

## ► NIPPERS

Champion-De-Arment Tool Co 1306-16 Main Meadville 1 Pa  
Damascus Steel Prods Corp 2199 W Kiah-waukee Rockford Ill  
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill  
Krauter & Co Inc 581 18th Av Newark NJ  
Lowe Mfg Co Enderlin ND  
M & M Wire Clamp Co 975 17th Av Minneapolis 14 Minn  
Peck Stow & Wilcox Co Mill St Southington Conn  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
Starr Bros Bell Co East Hampton Conn

## ► NOSINGS, METAL

**AETNA STEEL PRODS CORP 730 5TH AV NEW YORK 19 NY**  
Alden Mfg Co 201 W Walnut Painville Ohio  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**ALL-METAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL**  
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
American Mason Safety Tread Co 125 Perry Lowell Mass  
Ames Metal Moulding Co 227 E 144th New York 51 NY  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
**B & T METALS CO 425 W TOWN COLUMBUS 16 OHIO**  
Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 59 ILL**  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
Decorite Inc 2116 Peachtree Atlanta Ga  
Ford Metal Moulding Corp 27-01 Bridge Plaza N Long Island City 1 NY  
Kinkead Industries Inc 5860 N Pulaski Rd Chicago 30 Ill  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
**MARSH WALL PRODS INC 5032 MAIN DOVER OHIO**  
Metal Trims Inc Box 1072 Youngstown 1 Ohio  
National Guard Prods 757 Madison Memphis 7 Tenn  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Penn Supply & Metal Corp 1831 N 5th Philadelphia 22 Pa  
Potis-Farrington Co 1224 Cherry Philadelphia 7 Pa  
Proter Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill  
Pyramid Mouldings Inc 5353 W Armstrong Chicago 30 Ill  
S & W Moulding Co 990 Parsons Av Columbus 6 Ohio  
Safe Tread Co Inc 30 Vesey New York 7 NY  
Trimeg Inc 4021 Mahoning Youngstown 1 Ohio  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
Werner (R D) Co Inc 295 Fifth Av New York 16 NY  
Wheeling Corrugating Co Wheeling W Va  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
Wooster Prods Inc Leohr & Wyant Wooster Ohio  
**YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO**

## ► NUMBERS & LETTERS, LUMINOUS

Auto Sign Display Co 1911 Pine St Louis Mo  
Gits Molding Corp 4600 W Huron Chicago 44 Ill  
Greider (K H) Mfg Co 830 Mason Springfield Ohio  
Lumelite Corp Pawling NY  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
**NU TONE INC MADISON & RED BANK CINCINNATI 27 OHIO**  
Nu View House Number 3910 Carnegie Cleveland 15 Ohio

## ► NUMBERS & LETTERS, REFLECTING

**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

## NU-ART NUMBERS & LETTERS

**B CHOOSE FROM 4**  
**3 SIZES**  
**3 METALS**

See Pgs. 14-17

**SOLD BY HARDWARE & LUMBER DEALERS**



**MACKLANBURG-DUNCAN CO.**  
OKLAHOMA CITY, OKLA.

Reflecto Letters Co 411 E 101st New York 29 NY  
Slaymaker Lock Co 115 S West End Av Lancaster Pa  
Thomas & Associates Inc Minneapolis 11 Minn  
US Lite-Ray Co Dayton Ohio

## ► NUMBERS & LETTERS, TILE

Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio

## ► NUMBERS & LETTERS, WOOD & METAL

Ajax Hdwe Mfg Corp 4351 Valley Blvd Los Angeles 32 Cal  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Champion Hdwe Co 3300 Miller Geneva Ohio  
Chesler (J) & Sons Inc 43-49 Varick Av Brooklyn 37 NY  
Cipeco Corp 22nd & Cole St Louis 6 Mo  
Clinton Lock Co 78 31st Av N Clinton Iowa  
**CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK AV NEW BRITAIN CONN**  
**DEXTER LOCK CO SUBSID NATIONAL BRASS CO 100 MADISON AV SE GRAND RAPIDS 2 MICH**  
Ereo Mfg Co 2365 N Elston Av Chicago 14 Ill  
Fiwale Equipment Co 105 Reade New York 13 NY  
Gits Molding Corp 4600 W Huron Chicago 44 Ill  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
Lakeside Metalcraft Co 339 W Hovey Av Muskegon Heights Mich  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
Matthews (James H) & Co 1315 W Liberty Av Pittsburgh Pa  
**McKINNEY MFG CO 1715 LIVERPOOL PITTSBURGH 33 PA**  
Nelson-Harkins Industries 2023 N Damen Av Chicago 11 Ill  
Norwalk Lock Co Div Segal Lock & Hdwe Co 397 Broadway, New York 13 NY  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Premax Prods Div Chisolm-Ryder Co Inc Hyland & College Av Niagara Falls NY  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
Rustic Furniture Co Inc Williamstown NJ  
Safe Padlock & Hdwe Co Second & Crystal Lancaster Pa  
Sager-Barrrows Div Yale & Towne Mfg Co Berrien Springs Mich  
Slaymaker Lock Co 115 S West End Av Lancaster Pa  
Spanjer Bros Inc 1660 N Howe Chicago Ill  
Standard Bronze Co 179 W 5th Bayonne 20 NJ  
Trio Letters Inc 329 Woodlawn Aurora Ill  
Wellman Prods Co 1444 E 49th Cleveland 3 Ohio

## ► OFFICE MACHINES & EQUIPMENT

Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
Ajax Time Stamp Co 368 Broadway New York NY  
Autographic Register Co Hoboken NJ  
**BERGER MFG CO DIV REPUBLIC STEEL CORP 1035 BELDEN AV NE CANTON 5 OHIO**  
Burgess Co Inc Beaver Falls Pa  
Burroughs Corp 6071 Second Blvd Detroit Mich  
Calculagraph Co Harrison NJ  
Clary Multiplier Corp 408 Junipero San Gabriel Cal  
Davidson Mfg Corp 29 Ryerson Brooklyn 5 NY

Dick (A B) Co 5700 W Touhy Av Chicago 31 Ill  
Egry Register Co 429 E Monument Dayton 2 Ohio  
Elliott Addressing Machine Co 143 Albany Cambridge 39 Mass  
Felt & Tarrant Mfg Co 1735 N Paulina Chicago Ill  
Ferris Business Equipment Inc 244 Great Meadows Rd Stratford Conn  
Friden Calculating Machine Co San Leandro Cal  
Hamilton Autographic Register Co Hamilton Heyer Corp 1850 S Kostner Chicago Ill  
Indiana Cash Drawer Co Shelbyville Ind Ohio  
International Business Machines Corp 599 Madison Av New York 22 NY  
Kirk Plastics Co 170 E Jefferson Blvd Los Angeles 11 Cal  
Lightning Adding Machines Sales Co 234 W 37th Pl Los Angeles 7 Cal  
Marchant Calculating Machine Co 1475 Powell Oakland 8 Cal  
Master Addresser Co 6500 W Lake Minneapolis 16 Minn  
McCaskey Register Co Alliance Ohio  
Meilicke Systems Inc 3458-60 N Clark Chicago 13 Ill  
Monroe Calculating Machine Co Inc 555 Mitchell Orange NJ  
Mosler Safe Co 320 Fifth Av New York 1 NY  
National Cash Register Co South Main & "K" Dayton 9 Ohio  
Northwest Metal Prods Co 1337 E Mason Green Bay Wis  
Ohmer Register Co Dayton Ohio  
Patent Novelty Co Inc Fulton Ill  
Peck & Harvey 5650 N Western Av Chicago Ill  
**REMINGTON RAND INC 315 FOURTH AV NEW YORK 10 NY**  
Smith-Corona Inc 701 E Washington Syracuse 1 NY  
Speed-O-Print Corp 1801 W Larchmont Chicago 13 Ill  
Standard Register Co Dayton 1 Ohio  
Swift Business Machines Corp 51 Church Great Barrington Mass  
Todd Co Inc Rochester 3 NY  
Tucker-Dorsey Mfg Corp Indianapolis Ind  
UARCO Inc 6000 S California Chicago 32 Ill  
Underwood Corp 1 Park Av New York 16 NY  
Victor Adding Machine Co 3900 N Rockwell Chicago Ill

## ► OIL, LEAD MIXING

Bisbee Lineed Co Inc 2013 Butler Box 275 Chicago Heights Ill  
Ereing Bros Inc 223 Adams Hoboken NJ  
Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
National Lead Co 111 Broadway New York 6 NY  
**PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**

## ► OIL, LINSEED

Archer-Daniels-Midland Co 600 Roanoke Bldg Minneapolis 2 Minn  
Bisbee Lineed Co Box 275 2013 Butler Chicago Heights Ill  
DeMert & Dougherty 3001 W 47 Chicago 32 Ill  
Devoy & Raynolds Co Inc 787 First Av New York 17 NY  
Fuller (W P) & Co 301 Mission San Francisco 19 Cal  
Gillespie Varnish Co Dey & Howell Jersey City NJ  
Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
Gordon Chemical Co Inc 1100 Hickory Kansas City Mo  
Interstate Oil Co 250 S 5th Kansas City 1 Kan  
Kellogg (Spencer) & Sons Corp Niagara Sq Buffalo NY  
Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal  
Linseed Oil Prods Co 355 Del Monte Pasadena Cal  
Mobile Paint Mfg Co Box 1686 Mobile Ala  
National Lead Co 111 Broadway New York 6 NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
Spencer-Kellogg & Sons 98 Delaware Av Box 989 Buffalo 5 NY  
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
Technical Oil Div South Tex Cotton Oil Co Houston Tex

## ► OUTLETS, ELECTRIC

All-Steel Equip Co Inc 245 John Aurora Ill  
Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill  
**ARROW-HART & HEGEMAN ELECTRIC CO 103 HAWTHORNE HARTFORD CONN**

**AMERICAN BUILDER**

Bell Electric Co 1844 W 21st Chicago 8 Ill  
 Bryant Electric Co 1421 State Bridgeport 2 Conn  
 Eagle Electric Mfg Co 23-10 Bridge Plaza 8 Long Island City 1 NY  
**GENERAL ELECTRIC CO CONSTRUCTION MATERIAL DIV 1285 BOSTON AV BRIDGEPORT 2 CONN**  
 Gits Molding Corp 4690 W Huron Chicago 44 Ill  
 Hubbell (Harvey) Inc State & Bostwick Av Bridgeport 2 Conn  
 Pass & Seymour 50 Boyd Av Syracuse 9 NY  
 Sierra Elec & Mfg Co 44 E 31st Los Angeles Cal  
 Square D Co 6060 Rivard Detroit Mich  
 Weber Electric Co Schenectady NY

### ► OVENS, OUTDOOR & DUTCH

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Hancock Iron Wks 52 W Pike Pontiac Mich  
 Kraus (Walter S) Co 48-02 43rd Woodside NY  
**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Mexico Refractories Co Love & Cole Mexico Mo  
 Outdoor Oven Fireplace Co 859 Windsor Hartford 1 Conn  
 Poulsen & Nardon Inc Soto & Leonis Blvd Los Angeles 11 Cal  
**PRICE FIREPLACE HEATER & TANK CORP 195 W AUSTIN BUFFALO 7 NY**  
 Western Foundry Co 2400 SW Water Av Portland 1 Ore

### ► PAINT APPLICATORS, ROLLER, AIR PRESSURE

Bentzinger Bros 317 N 3rd St Louis 2 Mo  
 Carlson (A B) & Co 349 Woodlawn Aurora 4 Ill  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 E-Z Painter Corp 4051 S Iowa Av Milwaukee 7 Wis  
 Hanlon & Goodman Co Belleville NJ  
 Jacobus (A G) Sons Inc Verona NJ  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Meinhardt (J A) & Co 30 W Kinzie Chicago Ill  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
 Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
 Rubberset Co 56 Ferry Newark 5 NJ  
 Whiting-Adams Co Inc 700 Harrison Av Boston 18 Mass

### ► PAINT SPRAY GUNS

Binks Mfg Co 3124 W Carroll Chicago Ill  
 Black Mfg Co 201 Second Harrison NJ  
 Brown (W R) Corp 2701 N Normandy Av Chicago 35 Ill  
 Burgess Vibrocrafters Inc Grayslake Ill  
**COLORCRETE INDUSTRIES INC 24TH & OTTAWA HOLLAND 1 MICH**  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 DeVilbiss Co 300 Phillips Toledo Ohio  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Electric Sprayit Co 1415 Illinois Av Sheboygan Wis  
 Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
 Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
 Paasche Air Brush Co 1909 W Diversey Pkwy Chicago 14 Ill  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Portable Electric Tools Inc 320 W 83rd Chicago 20 Ill  
 Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
 Saylor-Beall Mfg Co 401 Kibbie St Johns Mich  
 Selloe Corp 157 W Kellogg Blvd St Paul 2 Minn  
 Stewart-Warner Corp 1828 Diversey Pkwy Chicago 14 Ill

### ► PAINT & VARNISH REMOVERS

Acme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
 American-Marietta Co 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Barr (W M) & Co Box 3518 Memphis 6 Tenn  
 Bengal Co 214 St Nicholas Av New York 27 NY  
 Berry Bros Inc 211 Leib Detroit 7 Mich  
 Boston Varnish Co 114 Second Boston Mass  
 Boyer Chemical Laboratory Co 2232 S Wabash Av Chicago 16 Ill  
 Boyle-Midway Inc 22 E 40th New York 16 NY  
 Breinig Bros Inc 1st & Harrison Hoboken NJ

Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chemical Supply Co 3240 Norton Cleveland Ohio  
 Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
 Cook Paint & Varnish Co 1412 Knox Kansas City Mo  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Elliott Paint Varnish Wks 4523 W Fifth Av Chicago 24 Ill  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Forman-Ford & Co 111 E Second Minneapolis Minn  
 Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 Fuller (W P) & Co 301 Mission San Francisco 19 Cal  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio  
 Haynes Prods Co 4007 Farnam Omaha 3 Neb  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
 Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill  
 Industrial Chemical Sales Div West Virginia Pulp & Paper Co 230 Park Av New York 17 NY  
 Keystone Varnish Corp 71 Otsego Brooklyn 31 NY  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill  
 Linsco Oil Prods Co 1107 S Fremont Av Alhambra Cal  
 Lowebeo 1525 E 53rd Chicago 15 Ill  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 Quarry Chicago 8 Ill  
 Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
 Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
 Oakite Prods Inc 19 Rector New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 22 Ind  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Pierce & Stevens Inc 710 Ohio Buffalo 3 NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Savogran Co 28 India Wharf Boston 16 Mass  
 Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Stanley Chemical Co East Berlin Conn  
 Steelco Mfg Co 3418 Gratiot St Louis 3 Mo  
 Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
 Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
 Tennant (G H) Co 2566 N Second Minneapolis 1 Minn  
 Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY  
 United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
 Valentine & Co Inc 11 E 36th New York NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Wadsworth-Howland & Co 141 Federal Boston Mass  
 Wilson Imperial Co 115 Chestnut Newark NJ  
 Woodfinishing Prods Co 34 Industrial New York 61 NY

### ► PAINTS, ACIDPROOF

Abesto Mfg Corp 131 Wabash Michigan City Ind  
 American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio  
 Atlas Mineral Prods Co Merststown Pa

Boston Varnish Co 114 Second Boston Mass  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Cheeseman-Elliott Co Inc 645 Kent Av Brooklyn 11 NY  
 Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 DuPont (E I) de Nemours Co 1007 Market Wilmington 98 Del  
 Elliott Paint & Varnish Co 4623 W Fifth Av Chicago 24 Ill  
 Glidden Co 11001 Madison Cleveland 2 Ohio  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Haynes Prods Co 4007 Farnam Omaha Neb  
 Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY  
 Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill  
 Lowebeo Inc 1525 E 53rd Chicago 15 Ill  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
**MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL**  
 Nukem Prods Corp 111 Colgate Av Buffalo 20 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
**PACO PRODS INC 475 BRANNAN SAN FRANCISCO CAL**  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Quigley Co Inc 527 Fifth Av New York 17 NY  
 Rubber & Plastic Compounds Co Inc 30 Rockefeller Plaza New York 20 NY  
**RUBEROID CO 506 FIFTH AV NEW YORK 36 NY**  
 Sapolin Paints Co Inc 229 E 42nd New York 17 NY  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Sprays-Bond Co 2255 N Humboldt Milwaukee 12 Wis  
 Steelco Mfg Co 3418 Gratiot St Louis 3 Mo  
 Stonhard Co 1306 Spring Garden Philadelphia 23 Pa  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
 Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Valentine & Co Inc 11 E 36th New York NY  
 Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Vorac Co 147 Meadow Rd Rutherford NJ  
 Wilson & Williams Co 130 Lincoln Brighton 35 Boston Mass

### ► PAINTS, ALUMINUM, BRONZE & GOLD

Abesto Mfg Corp 131 Wabash Michigan City Ind  
 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa  
 Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio  
 American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 Arco Co 7301 Bessemer Cleveland 4 Ohio  
 Arnesto Paint Co Inc 550 W 46th New York 19 NY  
 Brier Corrugating Co 1801-39 West Avenue S-LaCrosse Wis  
 Boston Varnish Co 114 Second Boston Mass  
 C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Cheeseman-Elliott Co Inc 645 Kent Av Brooklyn 11 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Chi-Namel Paint & Varnish Co 1101 Third S Minneapolis 15 Minn  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Crescent Bronze Powder Co 116 W Illinois Chicago 19 Ill  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Elliott Paint & Varnish Co 4623 W Fifth Av Chicago 24 Ill

**FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK 20 NY**Forman-Ford & Co 111 E Second Minne-  
apolis MinnFort Pitt Chemical Co 26th & Smallman  
Pittsburgh 22 PaGlidden Co Beren Rd & Madison Cleveland  
OhioGrand Rapids Varnish Corp 1350 Steele Av  
SW Grand Rapids 2 MichHanna Paint Mfg Co 95 W Long Columbus 15  
OhioHoboken White Lead & Color Wks Inc 15th  
& Adams Hoboken NJHooker Glass & Paint Mfg Co 659 W Wash-  
ington Chicago 6 IllHorn (A C) Co Inc 10th 44th Av Long Is-  
land City 1 NYIllinois Bronze Powder Co Inc 2023 S Clark  
Chicago 16 IllKyanize Paints Inc Second & Boston Everett  
49 MassLawrence (W W) Co 1124-32 W Carson  
Pittsburgh 19 PaLogan-Long Co 6600 S Central Av Chicago  
28 Ill

Lowe Bros Co 436 E Third Dayton 2 Ohio

Martin-Senour Co 2520 S Quarry Chicago 18  
IllMasury (John W) & Son 1700 Bayard Balti-  
more 30 MdMerkin (M J) Paint Co Inc 1441 Broadway  
New York 18 NYMinnesota Paints Inc 1101 Third S Minne-  
apolis 15 Minn

Mobile Paint Mfg Co Box 1686 Mobile Ala

Moore (Benjamin) & Co 511 Canal New York  
13 NYNational Lead Co 111 Broadway New York  
6 NYO'Brien Corp 101 N Johnson South Bend  
21 Ind**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**Pratt & Lambert Inc 75 Tonawanda Buffalo  
7 NYQuigley Co Inc 527 Fifth Av New York 17  
NYRockford Paint Mfg Co 200 Sayre Rockford  
IllSeidlitz Paint & Varnish Co 18th & Garfield  
Kansas City 10 KanSheffield Bronze Paint Corp 17814 Waterloo  
Rd Cleveland 19 OhioSherwin-Williams Co 101 Prospect Av Cleve-  
land 1 OhioSonneborn (L) & Sons Inc Building Prods  
Div 404 4th Av New York 16 NY

Speco Inc 7508 Associate Av Cleveland Ohio

Standard Industrial Prods Inc 1500 Park  
Evansville 4 Ind

Steelco Mfg Co 3418 Gratiot St Louis 3 Mo

Troyer Driveway Service 2157 S Park Av  
Buffalo 20 NYTruscon Laboratories Div Devoe & Reynolds  
Co Inc Caniff at Grand Trunk Ry Detroit  
11 MichUse-Gutta Percha Paint Co 12 Dudley Providence  
1 RIVerflex Sales Corp 115-117 Moonachie Av  
Carlstadt NJWeatherguard Service Inc 564 Jackson Av  
New York 55 NYWilbur & Williams Co 130 Lincoln Brighton  
35 Boston Mass**PAINTS, ASPHALT**Abesto Mfg Corp 131 Wabash Michigan City  
IndAkron Paint & Varnish Co 1390 Firestone  
Pkwy Akron 1 OhioAmerican-Marietta Co 101 E Ontario Chicago  
1 IllAmerican Varnish Co 1140 N Branch Chi-  
cago 22 IllAsbestos Asphalt Insulation Inc 2100 Fullerton  
Av Chicago 47 IllAsbestos Co of Tex Div Carey (Philip) Mfg  
Co Box 1082 Houston 1 Tex**ARMSTRONG CORK CO BUILDING MA-  
TERIALS DIV 1010 CONCORD LANCASTER  
PA**Badger Corrugating Co 1801-39 West Av S  
LaCrosse WisBarreled Sunlight Paint Co 12 Dudley Providence  
1 RI**BARRETT DIV ALLIED CHEMICAL & DYE  
CO 40 RECTOR NEW YORK 6 NY**

Boston Varnish Co 114 2nd Boston 49 Mass

Breinig Bros Inc 223 Adams Hoboken NJ

CALBAR PAINT & VARNISH CO 2612-23  
N MARTHA PHILADELPHIA 25 PACAREY (PHILIP) MFG CO 316 S WAYNE  
LOCKLAND CINCINNATI 15 OHIOCeresit Waterproofing Corp 3227 S Shields  
Chicago 16 IllCentral Paint & Varnish Wks 59 Prospect  
Brooklyn 1 NYChesarian-Elliott Inc 647 Kent Av Brooklyn  
11 NYChicago Bronze & Color Wks 2639 W Grand  
Chicago 12 IllChicago Paints Inc 4500 W 14th Chicago 23  
IllCoopers Creek Chemical Corp River Rd  
West Conshohocken Pa

Dad &amp; Lad Co New Lenox Ill

Devoe & Reynolds Co Inc 787 First Av New  
York 17 NYDixon (Joseph) Crucible Co 167 Wayne Jer-  
sey City 3 NJDuPont (E I) de Nemours & Co 1007 Market  
Wilmingon 98 DelElliott Paint & Varnish Co 4523 W 5th Av  
Chicago 24 IllEverette Corp 424 W 42nd New York 36  
NY**FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK 20 NY**Ford Roofing Prods Co 188 W Randolph  
Chicago IllForman-Ford & Co 111 S 2nd Minneapolis  
MinnFort Pitt Chemical Co 26th & Smallman  
Pittsburgh 22 PaFoy Paint Co Inc 1776 Mentor Av Cincinnati  
12 OhioGibson-Homans Co 2366 Woodhill Rd Cleve-  
land 6 OhioGlidden Co Beren Rd at Madison St Cleve-  
land 2 OhioHanna Paint Mfg Co 95 W Long Columbus  
15 Ohio

Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill

Hooker Glass & Paint Mfg Co 659 W Wash-  
ington Chicago 6 IllHorn (A C) Co Inc 10th St & 44th Av Long  
Island City 1 NYIllinois Bronze Powder Co 2023 S Clark  
Chicago 16 Ill**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**Kyanize Paints Inc 2nd & Boston Everett 49  
MassLawrence (W W) & Co 1124-32 W Carson  
Pittsburgh 19 Pa

Lehon Co 4425 S Oakley Chicago 9 Ill

Logan-Long Co 6600 S Central Av Chicago  
28 IllMartin-Senour Co 2520 S Quarry Chicago 8  
Ill

Meadows (W R) Inc 2 Kimball Elgin Ill

Merkin (M J) Paint Co Inc 1441 Broadway  
New York 18 NY

Mobile Paint Mfg Co Box 1686 Mobile Ala

Monarch Paint Co Peoria Ill

Murphy Finishes Corp 67 W 44th New York  
18 NYMurphy Paint Div Interchemical Corp 224  
McWhorter Newark NJO'Brien Corp 101 N Johnson South Bend 21  
IndOld American Roofing Mills Div Ruberoid  
Co 500 Fifth Av New York 36 NYOld American Roofing Mills 7600 Truman  
Rd Kansas City Mo**PABCO PRODS INC 475 BRANNAN SAN  
FRANCISCO CAL**

Parker (Ira) &amp; Sons Co Oshkosh Wis

**PECORA PAINT CO INC 4TH ST & RDG  
RR PHILADELPHIA 40 PA****PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**

Quigley Co Inc 527 5th Av New York 17 NY

Rockford Paint Mfg Co 200 Sayre Rockford  
IllRogers Paint Prods Inc 8250 St Aubin Av  
Detroit 11 MichRohloff Co 918 N Western Av Los Angeles  
27 Cal**RUBEROID CO 500 5TH AV NEW YORK  
36 NY**Seidlitz Paint & Varnish Co 18th & Garfield  
Kansas City 10 MoSherwin-Williams Co 101 Prospect Av Cleve-  
land 1 OhioSika Chemical Corp 35 Gregory Av Passaic  
NJSonneborn (L) & Sons Inc Building Prods  
Div 404 4th Av New York 16 NYSpray-O-Bond Co 2255 N Humboldt Milwau-  
kee 12 WisStandard Industrial Prods Inc 1500 Park  
Evansville 4 Ind

Steelco Mfg Co 3418 Gratiot St Louis 3 Mo

Texas Co 135 E 42nd New York 17 NY

Truscon Laboratories Div Devoe & Reynolds  
Co Inc Caniff & Grand Trunk Ry Detroit  
11 MichTuferete Co Inc 552 Teachout Bldg Des Moines  
9 Iowa

Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

Twentieth Century Paint & Varnish Corp  
456 Driggs Av Brooklyn NYUnited Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 PaVerflex Sales Corp 115-17 Moonachie Av  
Carlstadt NJ

Vita-Var Corp 10 Commerce Ct Newark NJ

Weatherguard Service Inc 564 Jackson Av New  
York 55 NYWilbur & Williams Co 130 Lincoln Brighton  
35 Boston Mass**PAINTS, AWNING**American-Marietta Co Valdura Div 101 E  
Ontario Chicago 11 Ill

Aridye Corp Fair Lawn NJ

Astrup Co 2937 W 25th Cleveland Ohio

Central Paint & Varnish Wks 59 Prospect  
Brooklyn 1 NYGoss (J C) Co 36 E Woodbridge Detroit 26  
MichHanna Paint Mfg Co 95 W Long Columbus 15  
OhioIndustrial Canvas Prods Corp 15-25 Flax  
Delaware Ohio**PABCO PRODS INC 475 BRANNAN SAN  
FRANCISCO CAL****PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**Textile Colors Div Interchemical Corp Plaza  
Rd Fair Lawn NJ**PAINTS, CEMENT**American Fluoresit Co 4011 Red Bank Rd Cin-  
cinnati 27 OhioAmerican-Marietta Co Valdura Div 101 E  
Ontario Chicago 11 Ill**AMERICAN STA-DRI 4019 38TH BRENT-  
WOOD MD**Armor Laboratories Inc Commercial & Doran  
Glendale 3 Cal

Breinig Bros 223 Adams Hoboken NJ

Burdal (A) Co 208 W Georgia Indianapolis  
IndCarbola Chemical Co 46 Harris Rd Natural  
Bridge NY**CAREY (PHILIP) MFG CO 316 S WAYNE  
LOCKLAND CINCINNATI 15 OHIO**

Carolina Perlite Co Box 158 Salisbury NC

Cemix Co 433 Maple Av Downers Grove Ill

Central Paint & Varnish Wks 59 Prospect  
Brooklyn 1 NYCeresit Waterproofing Corp 3227 S Shields  
Chicago 16 Ill**COLORCRETE INDUSTRIES INC 24TH &  
OTTAWA HOLLAND 1 MICH**

Con-Cor Co 4550 Main Kansas City Mo

Devoe & Reynolds Co Inc 787 First Av New  
York 17 NYDuPont (E I) de Nemours Co 1007 Market  
Wilmingon 98 DelFoy Paint Co Inc 1776 Mentor Av Cincinnati  
12 OhioHanna Paint Mfg Co 95 W Long Columbus  
15 Ohio

Haynes Prods Co 4007 Farnum Omaha 3 Neb

Hooker Glass & Paint Mfg Co 659 W Wash-  
ington Chicago 6 IllHorn (A C) Co Inc 10th & 44th Av Long  
Island City 1 NYIllinois Bronze Powder Co Inc 2023 S Clark  
Chicago 16 IllKyanize Paints Inc Second & Boston Everett  
49 Mass

Lowe Bros 436 E 3rd Dayton 2 Ohio

Made-Rite Prods Inc 2410 S 7th St Louis Mo

Martin-Senour Co 2520 S Quarry Chicago 8  
IllMasury (John W) & Sons Inc 1700 Bayard  
Baltimore 30 MdMerkin (M J) Paint Co Inc 1441 Broadway  
New York 18 NY

Mobile Paint Mfg Co Box 1686 Mobile Ala

Moore (Benjamin) & Co 511 Canal New  
York 13 NYNational Chemical & Mfg Co 3617 S May  
Chicago 9 Ill**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**O'Brien Corp 101 N Johnson South Bend 21  
IndPenslee-Gaubert Paint & Varnish Co 223 N  
15th Louisville KyPenn Crete Prods Co 20th & Lippincott  
Philadelphia 32 PaPratt & Lambert Inc 75 Tonawanda Buffalo  
7 NY

Rex Prods Co 9930 Freeland Detroit 27 Mich

Rockford Paint Mfg Co 200 Sayre Rockford  
IllSika Chemical Corp 35 Gregory Av Passaic  
NJSpray-O-Bond Co 2225 N Humboldt Milwau-  
kee 12 WisSpurgeon (N B) Co 29 N Wacker Dr Chi-  
cago 6 IllSuper Concrete Emulsions 1372 E 15th Los  
Angeles 21 CalTuferete Co Inc 552 Teachout Bldg Des Moines  
9 IowaUnited Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 Pa**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

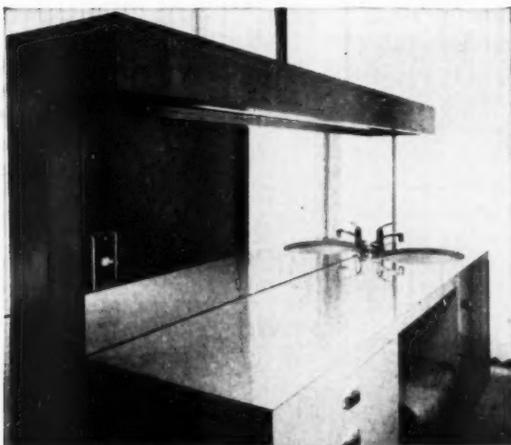
Vorac Co 147 Meadow Rd Rutherford NJ

Wesco Waterpaints Inc 742 Grayson Berke-  
ley 10 Cal**PAINTS, COLDWATER &  
CASEIN**Acme White Lead & Color Wks 8250 St  
Aubin Av Detroit 11 MichAlabastine Paint Prods 2629 Grand Av Chi-  
cago 12 IllAmerican Fluoresit Co 4011 Red Bank Rd  
Cincinnati 27 OhioAmerican-Marietta Co Valdura Div 101 E  
Ontario Chicago 11 IllBurdal (A) Co 206 S Capitol Indianapolis  
9 Ind

Cabot (Samuel) Inc 141 Milk Boston 9 Mass

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 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
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 Kleen-Kote Co 601 W 80th Chicago 20 Ill  
 Made-Rite Prods Inc 2410 S 7th St Louis Mo  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Muralo Co Inc 572 Richmond Terrace Staten Island 1 NY  
 National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Parker (Ira) & Sons Co Oshkosh Wis  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 6 Mo  
 Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Reardon Co 7501 Page Av St Louis 14 Mo  
 Rogers Paint Prods Inc 8250 St Aubin Av Detroit 11 Mich  
 Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Standard Tox Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY  
 Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
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 Wesco Waterpaints Inc 742 Grayson Berkeley 10 Cal  
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 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

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 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 American Fluoresc Co Inc 1011 Red Bank Rd Cincinnati 29 Ohio  
 American-Marietta Co 191 E Ontario Chicago 11 Ill  
**AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD**  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Arco Co 7391 Bessemer Cleveland 4 Ohio  
 Armor Laboratories Inc Commercial & Doran Glendale 3 Cal  
 Arnesto Paint Co Inc 559 W 46th New York 19 NY  
 Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
 Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa  
 Blue Ridge Tale Co Inc Henry Va  
 Boston-Varnish Co 114 Second Everett Mass  
 Briggs-Maroney Co Inc 85 Paris Everett 49 Mass  
 Builders Prods 105 W Adams Chicago 3 Ill  
 Burdsal (A) Co 206 S Capitol Indianapolis 9 Ind  
 Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
**CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA**  
 Carter-Waters Corp 2440 Pennway Kansas City 8 Mo  
 Celadri Corp of New York Columbus Av North Bellmore NY  
 Cenix Co 433 Maple Av Downers Grove Ill  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill  
 Cheeseman-Elliott Co Inc 647 Kent Av Brooklyn 11 NY  
 Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
**COLORCRETE INDUSTRIES INC HOLLAND MICH**  
 Con-Cor Co 4550 Main Kansas City Mo  
 Coprox Sales Inc 1270 Sixth Av New York NY  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
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 Flexrock Co 36th & Filbert Philadelphia 4 Pa  
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 Foy Paint Co Inc 1776 Mentor Av Cincinnati 12 Ohio  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Glidden Co Berea Rd & Madison Cleveland Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill  
 Hoboken White Lead & Color Wks Inc 15th & Adams Hoboken NJ  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
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 Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill  
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**KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ**  
 Kentex Corp 854 S Robertson Blvd Los Angeles 35 Cal  
 Keystone Paint & Varnish Corp 71 Otsego Brooklyn 31 NY  
 Kleen-Kote Co 601 W 80th Chicago 20 Ill  
 Kyanite Paints Inc Second & Boston Everett 49 Mass  
 Lasting Prods Co Franklinton Rd Baltimore 23 Md  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowbein Inc 1525 E 53rd Chicago 15 Ill  
 Lowe Bros Co 436 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Moore (Benjamin) & Co 511 Canal New York NY  
 Muralo Co Inc 572 Richmond Ter Staten Island 1 NY  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 O'Brien Corp 191 N Johnson South Bend 21 Ind  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 49 PA**  
 Peerless Cement Corp 1144 Free Press Bldg Detroit 26 Mich  
 Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 11 Mo  
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 Plasti-Kote Co 425 Lakeside Av N W Cleveland 13 Ohio  
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 Prima Prods Inc 10 E 40th New York 16 NY  
 Reardon Co 7501 Page Av St Louis 14 Mo  
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 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
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 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
 Surface Protection Co 16799 Euclid Av Cleveland 12 Ohio

Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
 Tremco Mfg Co 8701 Kinsman Cleveland 4 Ohio  
 Trinity Portland Cement Div General Portland Cement Co 111 W Monroe Chicago Ill  
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 Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY  
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 Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Vorac Co 147 Meadow Rd Rutherford NJ  
 Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
 Wesco Waterpaints 742 Grayson Berkeley 10 Cal  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

### ▶ PAINTS, CREOSOTE

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 Burdsal (A) Co 298 W Georgia Indianapolis Ind  
 C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Penlee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky

### ▶ PAINTS, DDT

Carbola Chemical Co 46 Harris Rd Natural Bridge NY  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Unexcelled Chemical Corp 350 Fifth Av New York 1 NY

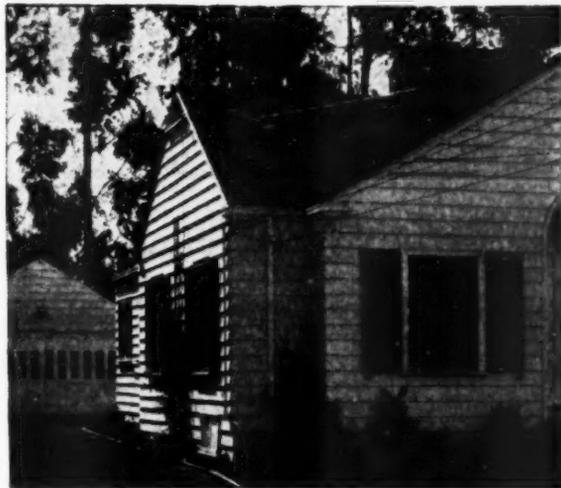
### ▶ PAINTS, DRY KILN

American Varnish Co 1140 N Branch Chicago 22 Ill  
 Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
 Black Cat Corp W Laurel Av Hattiesburg Miss  
 Breinig Bros 1st & Harrison Hoboken NJ  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Dewatex Mfg Corp 424 W 42nd New York 18 NY  
 Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill  
 Horn (A C) Co Inc 10th-St & 44th Av Long Island City 1 NY  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Moore Dry Kiln Co 1220 W State Jacksonville 1 Fla  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 Parker (Ira) & Sons Co Oshkosh Wis  
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 Quigley Co Inc 527 Fifth Av New York 17 NY  
 Tremco Mfg Co 8701 Kinsman Rd Cleveland Ohio  
 Wilbur & Williams Co 130 Lincoln Boston 35 Mass

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American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
**AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD**  
 Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
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THICK GLASS — HEAVY  
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5 ft. size Retail      5½ ft. size Retail

Contractors' prices are considerably lower

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SELF LEVELING • SELF ADJUSTING

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 Masury (John W) & Sons Inc 1700 Bayard Baltimore 30 Md  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Meta-Kote Corp Gardner Bldg Toledo 4 Ohio  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
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 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Sherwin-Williams Co 101 Prospect Av Cleveland Ohio  
 Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Trucon Laboratories Div Devco & Reynolds Co Inc Caniff & Grand Trunk RR Detroit 11 Mich  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

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 Carbola Chemical Co 46 Harris Rd Natural Bridge N Y  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Superior Paint & Varnish Wks 2256 N Elston Chicago Ill

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Aeme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
 Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio  
 American-Marietta Co 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Baker Paint & Varnish Co 128-232 Suydam Av Jersey City 4 NJ  
 Breinig Bros Inc 1st & Harrison Hoboken NJ  
 Briggs-Maroney Co Inc 85 Paris Everett 49 Mass  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Cheeseman-Elliott Co Inc 647 Kent Av Brooklyn 11 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 Dewatex Mfg Corp 424 W 42nd New York 18 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Fuller (W P) & Co 301 Mission San Francisco 19 Cal  
 Gillespie Varnish Co Dey & Howell Sts Jersey City, NJ  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Harbil Mfg Co Inc 310 W Ohio Chicago 10 Ill  
 Inland White Lead Co Franklin Park Ill  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp Dept L-4 South Bend 21 Ind  
 Parker (Ira) & Sons Co Oshkosh Wis  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Preservative Paint Co 5410 Airport Way Seattle 8 Wash  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Sellers Paint & Varnish Co 831 E 61st Los Angeles Cal  
 Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Twentieth Century Paint & Varnish Corp 456 Briggs Av Brooklyn NY  
 Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ  
 Vita-Var Corp 10 Commerce Newark NJ

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 Arco Co 7301 Bessemer Cleveland 4 Ohio  
 Arnesto Paint Co Inc 550 W 46th New York 19 NY  
 Boston Varnish Co 114 Second Everett Mass  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
 Glidden Co 11001 Madison Cleveland 2 Ohio  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Hoboken White Lead & Color Wks 15th & Adams Hoboken NJ  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
 King (E & F) & Co Inc 640 Pleasant Norwood Mass  
 Kyanize Paints Inc 2nd & Boston Everett 49 Mass  
 Lowe Bros Co 436 E 3rd Dayton 2 Ohio  
 National Lead Co 111 Broadway New York 6 NY  
**PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL**  
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 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Valentine & Co Inc 11 E 36th New York NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ

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Aeme White Lead & Color Wks 8250 St Aubin Av Detroit 11 Mich  
 Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio  
 American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Boston Varnish Co 114 Second Boston 49 Mass  
 Breinig Bros 223 Adams Hoboken NJ  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Cheesman-Elliott Co Inc 647 Kent Av Brooklyn 11 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio  
 DuPont (E I) de Nemours Co Inc 1007 Market Wilmington 98 Del  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Gillespie Varnish Co Dey & Howell Sts Jersey City 6 NJ  
 Glidden Co Berea Rd & Madison St Cleveland Ohio  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Harbil Mfg Co Inc 325 W Ohio Chicago 10 Ill  
 Horn (A C) Co Inc 10th & 44th Av Long Island City NY  
 Lucas (John) & Co Inc 1619 Pennsylvania Blvd Philadelphia Pa  
 Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 National Lead Co 111 Broadway New York 6 NY  
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 Plymold Co 2707 Tulare Av Burbank Cal  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Preservative Paint Co 5410 Airport Way Seattle 8 Wash  
 Quigley Co Inc 527 Fifth Av New York 17 NY  
 Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind  
 Kansas City Mo  
 Sherwin-Williams Co 101 Prospect Cleveland Ohio  
 Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Valentine & Co Inc 11 E 36th New York 16 NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Vora Co 147 Meadow Rd Rutherford NJ  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

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Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio  
 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio  
 American-Marietta Co 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
 Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
 Breinig Bros Inc 223 Adams Hoboken NJ  
**CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA**  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Chicago Bronze & Color Wks 2601-12 W Grand Av Chicago 12 Ill  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 59 Ill  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Crescent Bronze Powder Co 116 W Illinois Chicago 19 Ill  
 Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 DuPont (E I) de Nemours Co Inc 1107 Market Wilmington 98 Del  
 Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
 Felton Sibley & Co Inc 136 N 4th Philadelphia 6 Pa  
 Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Gillespie Varnish Co Dey & Howell Sts Jersey City 6 NJ  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Harbil Mfg Co 325 W Ohio Chicago 10 Ill  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
 Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill  
 Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa  
 Lasting Prods Co Franklinton Rd Baltimore 23 Md  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lockrey Co Southampton NY  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Monarch Paint Co Peoria Ill  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
**PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL**  
 Parker (Ira) & Sons Co Oshkosh Wis  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis 11 Mo  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Plasti-Kote Co 425 Lakeside Av NW Cleveland 13 Ohio  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind

St Louis Surfer & Paint Co 4200 Arlington Av St Louis 20 Mo  
 Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo  
 Sheffield Bronze Paint Corp 17814 Waterloo Cleveland Ohio  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Steele Mfg Co 3418 Gratiot St Louis 3 Mo  
 Twentieth Century Paint & Varnish Corp 456 Driggs Av Brooklyn NY  
 United Gilsomite Laboratories 1396 Jefferson Av Scranton 1 Pa  
 Valentine & Co Inc 11 E 36th New York NY  
 Verflex Sales Corp 115-117 Moonachie Av Carlstadt NJ  
 Vita-Var Corp 46 Albert Newark 2 NJ  
 Weatherguard Service Inc 564 Jackson Av New York 55 NY

**▶ PAINTS, OIL**

Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
 Acme White Lead & Color Wks 8250 St Aubin Detroit 11 Mich  
 Akron Paint & Varnish Co 1390 Firestone Pkwy Akron 1 Ohio  
 Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
 American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 American Varnish Co 1136 N North Branch Chicago 22 Ill  
 Arco Co 7301 Bessemer Cleveland 4 Ohio  
 Armstrong Paint & Varnish Wks 1330 S Kilbourn Chicago 23 Ill  
 Arnesto Paint Co Inc 550 W 46th New York 19 NY  
 Barreled Sunlight Paint Co 12 Dudley Providence 1 RI  
 Berry Bros 211 Leib Detroit 7 Mich  
 Boston Varnish Co 114 Second Everett Sta Boston Mass  
 Bradley & Vrooman Co 2629 S Dearborn Chicago 16 Ill  
 Breinig Bros 223 Adams Hoboken NJ  
 Burdsal (A) Co 208 W Georgia Indianapolis Ind  
 Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
 Central Paint & Varnish Wks 59 Prospect Brooklyn NY  
 Chicago Paint's Inc 4300 W 14th Chicago 23 Ill  
 Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio  
 DuPont (E I) de Nemours & Co Inc 1007 Market Wilmington 98 Del  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
 Enterprise Paint Mfg Co 2841 S Ashland Chicago Ill  
 Felton Sibley & Co 136 N 4th Philadelphia 6 Pa  
 Forman-Ford & Co 111 S Second Minneapolis 1 Minn  
 Foy Paint Co 1775 Mentor Av Cincinnati 12 Ohio  
 Fuller (W P) & Co Inc 301 Mission San Francisco 19 Cal  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Gillespie Varnish Co Dey & Howell Sta Jersey City 6 NJ  
 Glastic Corp North Kansas City 16 Mo  
 Glidden Co Beren Rd & Madison St Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Hanna Paint Mfg Co 95 W Long Columbus 15 Ohio  
 Harbl Mfg Co Inc 325 W Ohio Chicago 10 Ill  
 Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio  
 Heath & Milligan Mfg Co Div Glidden Co 1833 S Normal Chicago Ill  
 Hoboken White Lead & Color Wks Inc 15th & Adams Hoboken NJ  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago Ill  
 Horn (A C) Co Inc 10th St & 44th Av Long Island City 1 NY  
 Indianapolis Paint & Color Co Capitol & Thiel Sts Indianapolis Ind  
 Interchemical Corp Wooster Unit Wooster Ohio  
 Jewel Paint & Varnish Co 345 N Western Chicago 11 Ill  
 Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio  
 Keystone Varnish Co 71 Otsego Brooklyn 31 NY

King (E & F) & Co Inc 640 Pleasant Norwood Mass  
 Kurpees (J F) Paint Co 201 E Market Louisville Ky  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lasting Prods Co Franklinton Rd Baltimore 23 Md  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill  
 Linseed Oil Prods Co 1107 S Fremont Av Alhambra Cal  
 Linseed Oil Prods Co 359 Del Monte Pasadena 3 Cal  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 Lucas (John) & Co 1619 Pennsylvania Blvd Philadelphia Pa  
 Marietta Paint & Color Co Marietta Ohio  
 Martin-Senour Co 2520 S Quarry Chicago Ill  
 Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
 McMurtry Mfg Co 1533 Arapahoe Denver Colo  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY  
 Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Monarch Paint Co Peoria Ill  
 Moore (Benjamin) & Co 509 Canal New York NY  
 Muralo Co Inc 572 Richmond Ter Staten Island 1 NY  
 Murphy Finishes Corp 67 W 44th New York 18 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 National Lead Co 111 Broadway New York 6 NY  
 National Mfg Corp 3343 Flanagan Tonawanda NY  
 Nu-Enamel Corp 444 N Lake Shore Chicago 3 Ill  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL  
 Parker (Ira) & Sons Oshkosh Wis  
 Patterson-Sargent Co 1325 E 38th Cleveland 14 Ohio  
 Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky  
 PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA  
 Perma Prods Co 7007 Morgan Av Cleveland 4 Ohio  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo  
 Pioneer Mfg Co 3053 E 87th Cleveland 4 Ohio  
 PITTSBURGH PLATE GLASS CO 632 FORT DUGUESNE BLVD PITTSBURGH 22 PA  
 Plasti-Kote Co 425 Lakeside Ave NW Cleveland 13 Ohio  
 Pontiac Varnish Co Pontiac 12 Mich  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Preservative Paint Co 5410 Airport Way Seattle 8 Wash  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 St Louis Surfer & Paint Co 4200 Arlington Av St Louis 20 Mo  
 Sapolin Paints Inc 229 E 42nd New York 17 NY  
 Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind  
 Seal Rite Caulking Co 6335 Lyndon Av Detroit Mich  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sewall Paint & Varnish Co 1009-11 W 8th Kansas City Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Standard Toch Chemicals Inc 2600 Richmond Ter Staten Island 3 NY  
 Steele Mfg Co 3418 Gratiot St Louis 3 Mo  
 Sullivan Co 212 Trigg Memphis 2 Tenn  
 Toch Bros Inc 2600 Richmond Ter Staten Island NY  
 Tremco Mfg Co 8701 Kinsman Rd Cleveland 4 Ohio  
 Trucon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Twentieth Century Paint & Varnish Co 456 Driggs Av Brooklyn 11 NY  
 Valentine & Co Inc 11 E 36th New York NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Wadsworth Howland & Co 141 Federal Boston Mass  
 Wethrill (George D) & Co Inc 113 Arch Philadelphia 6 Pa  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass  
 Wilhelm (A) Co Div Glidden Co 3rd & Bern Reading Pa

**▶ PAINTS, PLASTER**

Alton Laboratories 207 S Green Chicago Ill  
 American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill

Bro-Ca-Do Inc 2841 S Ashland Chicago Ill  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Con-Cor Co 4550 Main Kansas City Mo  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Enterprise Paint Mfg Co 2841 S Ashland Chicago Ill  
 Forman-Ford & Co 111 E Second Minneapolis Minn  
 Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio  
 Glastic Corp North Kansas City 16 Mo  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Lovebeo Inc 1525 E 53rd Chicago Ill  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
 Monarch Paint Co Peoria Ill  
 NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
 Reardon Co 7501 Page Av St Louis 14 Mo  
 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
 Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
 UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
 Vorac Co 147 Meadow Rd Rutherford NJ  
 Wesco Waterpaints 5th & Grayson Berkeley 10 Cal

**▶ PAINTS, PLASTIC**

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 Atlas Mineral Prods Co Mertztown Pa  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Corosite Corp 64 S 6th Brooklyn 11 NY  
 Evercrete Corp 424 W 42nd New York 36 NY  
 GENERAL ELECTRIC CO CHEMICAL DEPT 1 PLASTICS AV PITTSFIELD MASS  
 Hollinshead (R M) Corp 840 Cooper Camden 2 NJ  
 Illinois Bronze Powder Co Inc 2023 S Clark Chicago 16 Ill  
 Kleen-Kote Co 601 W 80th Chicago 20 Ill  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Plasti-Kote Inc 425 Lakeside Av NW Cleveland 13 Ohio  
 Plymold Co 2707 Tulare Av Burbank Cal  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Vorac Co 147 Meadow Rd Rutherford NJ

**▶ PAINTS, RUBBER BASE**

American-Marietta Co Valdura Div 101 E Ontario Chicago 11 Ill  
 Arco Co 7301 Bessemer Cleveland 4 Ohio  
 Atlas Mineral Prods Co Mertztown Pa  
 Bradley & Vrooman Co 2629 S Dearborn Chicago 16 Ill  
 Burdsal (A) Co 208 W Georgia Indianapolis Ind  
 Camp Co Inc 6958 S State Chicago 21 Ill  
 Central Paint & Varnish Wks 59 Prospect Brooklyn 1 NY  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Forman-Ford & Co 111 E Second Minneapolis Minn  
 Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Glidden Co Beren Rd 8 Madison Cleveland 2 Ohio  
 Globe Paint Wks Inc 202 Market Williamsport 5 Pa  
 Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
 Harrison Paint & Varnish Co 1329 Harrison Av SW Canton 1 Ohio  
 Haynes Prods Co 4007 Farnum Omaha 3 Neb  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
 Kleen-Kote Co 601 W 80th Chicago 20 Ill  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Maas & Waldstein 2121 McCarter Hwy Newark 4 NJ  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
 Merkin (M J) Paint Co Inc 1441 Broadway New York 18 NY

*You'll capture their hearts*



with a Gold Bond  
grainboard kitchen



**W**HETHER you're building a new house—or remodeling an old one, you can give it extra heart appeal—and sales appeal with Gold Bond Gypsum Grainboard.

The warm, antique beauty of Grainboard harmonizes with the national swing to Early American atmosphere in the home. It has all the beauty of expensive wood paneling...and yet it costs

far less. Goes up fast—covers large areas at a time—and it's fireproof, too. Two convenient widths...large four-foot panels or handy, lightweight 16-inch planks.

Gold Bond Gypsum Grainboard saws and nails as easily as wood. Nails are colored to match the finishes! You can be sure that your customers will like one of the three rich finishes: Knotty Pine, Dark Walnut and Bleached Walnut. Write today for free samples!

And you don't have to stop with a good-looking kitchen! You can also give your customers the finest looking gamerooms, dens or bedrooms they've ever seen with this handsome, versatile Gold Bond Grainboard. It gives your homes that "extra" finishing touch...that "extra" appeal that closes the deal!

Get the undivided  
responsibility  
of National Gypsum

use **Gold Bond**  
inside and out



Gypsum Board Products



Plaster and Lime



Insulation Plank and Tile



Rock Wool



Paint Products



Acoustical Tile



Asbestos-Cement Products

NATIONAL GYPSUM COMPANY • BUFFALO 2, NEW YORK  
AMERICAN BUILDER

Mobile Paint Mfg Co Box 1686 Mobile Ala  
Moore (Benjamin) & Co 511 Canal New  
York 13 NY  
National Chemical & Mfg Co 3617 S May  
Chicago 9 Ill  
**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**  
O'Brien Corp 101 N Johnson South Bend 21  
Ind  
Penslee-Gaulbert Paint & Varnish Co 223 N  
15th Louisville Ky  
Pennsylvania Salt Mfg Co 453 Wilener Bldg  
Philadelphia 7 Pa  
Phelan-Faust Paint Mfg Co 932 Loughbor-  
ough Av St Louis Mo  
Preservative Paint Co 5410 Airport Way  
Seattle 8 Wash  
Quigley Co Inc 527 Fifth Av New York 17  
NY  
Rockford Paint Mfg Co 200 Sayre Rockford  
Ill  
Sapolin Paints Inc 229 E 42nd New York 17  
NY  
Seidlitz Paint & Varnish Co 18th & Garfield  
Kansas City 10 Mo  
Standard Industrial Prods Inc 1500 Park  
Evansville 4 Ind  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
Tremco Mfg Co 8701 Kinsman Rd Cleveland  
Ohio  
Troyer Driveway Service 2157 S Park Av  
Buffalo 20 NY  
Truscon Laboratories Div Devoe & Reynolds  
Co Inc Caniff at Grand Trunk Ry Detroit  
11 Mich  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**  
Verflex Sales Corp 115-117 Moonachie Av  
Carlstadt NJ  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Vorac Co 147 Meadow Rd Rutherford NJ  
Wesco Waterpaints Inc 742 Grayson Berke-  
ley 10 Cal  
Wethrill (George D) & Co Inc 113 Arch Phila-  
delphia 6 Pa  
Wilbur & Williams 130 Lincoln Brighton 35  
Boston Mass

### ▶ PAINTS, SYNTHETIC RESIN

American-Marietta Co Valdura Div 101 E  
Ontario St Chicago 11 Ill  
Arnesto Paint Co Inc 550 W 46th New York  
19 NY  
Atlas Mineral Prods Co Mertztown Pa  
Barreled Sunlight Paint Co 12 Dudley Provi-  
dence 1 RI  
Boston Varnish Co 114-2nd Everett Sta Bos-  
ton Mass  
Burdal (A) Co 208 W Georgia Indianapolis  
Ind  
Central Paint & Varnish Wks 59 Prospect  
Brooklyn 1 NY  
Chicago Paints Inc 4500 W 14th Chicago 23  
Ill  
Cook Paint & Varnish Co 1412 Knox North  
Kansas City Mo  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
DuPont (E I) de Nemours & Co Inc 1007  
Market Wilmington 98 Del  
Elliott Paint & Varnish Co 4523 W Fifth  
Av Chicago 24 Ill  
Foy Paint Co Inc 1775 Mentor Av Cincinnati  
12 Ohio  
Glidden Co Berea Rd & Madison St Cleveland  
2 Ohio  
Grand Rapids Varnish Corp 1350 Steele Av  
SW Grand Rapids 2 Mich  
Horn (A C) Co Inc 10th St & 44th Av Long  
Island City 1 NY  
Illinois Bronze Powder Co 2023 S Clark  
Chicago 16 Ill  
Jewel Paint & Varnish Co 349 N Western  
Av Chicago Ill  
Keystone Paint & Varnish Corp 71 Otsego  
Brooklyn 31 NY  
Kleen-Kote Co 601 W 80th Chicago 20 Ill  
Kyanize Paints Inc Second & Boston Everett  
49 Mass  
Lowe Brothers Co 436 E 3rd Dayton 2 Ohio  
Martin-Senour Co 2520 S Quarry Chicago  
8 Ill  
Masury (John W) & Sons Inc 1700 Bayard  
Baltimore 30 Md  
Minnesota Paints Inc 1101 3rd S Minneap-  
olis 15 Minn  
Minnesota Platon Corp Platon Bldg Pipe-  
stone Minn  
**MIRACLE ADHESIVE CORP 214 E 53RD  
NEW YORK 22 NY**  
Moore (Benjamin) & Co 511 Canal New  
York 13 NY  
O'Brien Corp 101 N Johnson South Bend 21  
Ind  
**PABCO PRODS INC 475 BRANNAN SAN  
FRANCISCO CAL**  
Penslee-Gaulbert Paint & Varnish Co 223 N  
15th Louisville Ky  
Phelan-Faust Paint Mfg Co 932 Loughbor-  
ough Av St Louis Mo  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Rockford Paint Mfg Co 200 Sayre Rockford  
Ill  
Rubber & Plastic Compounds Co Inc 30  
Rockefeller Plaza New York 20 NY  
Seidlitz Paint & Varnish Co 18th & Garfield  
Kansas City 10 Mo

APRIL 1954

Sherwin-Williams Co 101 Prospect Av Cleve-  
land 1 Ohio  
Standard Industrial Prods Inc 1500 Park  
Evansville 4 Ind  
Super Concrete Emulsions 1372 E 15th Los  
Angeles 21 Cal  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO ILL**  
United Laquer Mfg Corp 1001 W Elizabeth  
Av Linden NJ  
Valentine Co Inc 11 E 36th New York NY  
Verflex Sales Corp 115-117 Moonachie Av  
Carlstadt NJ  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Vorac Co 147 Meadow Rd Rutherford NJ  
Wesco Waterpaints Inc 742 Grayson Berke-  
ley 10 Cal  
Wesco Waterpaints Inc Maple St Matteson  
Ill  
Wilbur & Williams Co 130 Lincoln Brighton  
35 Boston Mass

### ▶ PAINTS, TEXTURE

Acme White Lead & Color Wks 8250 St  
Aubin Av Detroit 11 Mich  
American-Marietta Co Valdura Div 101 E  
Ontario Chicago 11 Ill  
Arco Co 7301 Bessemer Cleveland 4 Ohio  
Central Paint & Varnish Wks 59 Prospect  
Brooklyn 1 NY  
Chicago Paints Inc 4500 W 14th Chicago 23  
Ill  
Coddington (E D) Mfg Co 5024 N 37th Mil-  
waukee 9 Wis  
Con-Cor Co 4550 Main Kansas City Mo  
Cook Paint & Varnish Co 1412 Knox North  
Kansas City Mo  
Forman-Ford & Co 111 E Second Minne-  
apolis Minn  
Grand Rapids Varnish Corp 1350 Steele Av  
SW Grand Rapids Mich  
Lowebeo 1525 E 53rd Chicago 15 Ill  
Made-Rite Prods Inc 2410 S 7th St Louis Mo  
Martin-Senour Co 2520 S Quarry Chicago  
8 Ill  
Masury (John W) & Sons Inc 1700 Bayard  
Baltimore 30 Md  
National Chemical & Mfg Co 3617 S May  
Chicago 9 Ill  
**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**  
Penn Crete Prods Co 20th & Lippincott  
Philadelphia 32 Pa  
Phelan-Faust Paint Mfg Co 932 Loughbor-  
ough Av St Louis Mo  
Reardon Co 7501 Page Av St Louis 14 Mo  
Rockford Paint Mfg Co 200 Sayre Rockford  
Ill  
Seidlitz Paint & Varnish Co 18th & Garfield  
Kansas City 10 Mo  
Sherwin-Williams Co 101 Prospect Av Cleve-  
land 1 Ohio  
Standard Industrial Prods Inc 1500 Park  
Evansville 4 Ind  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**  
Verflex Sales Corp 115-117 Moonachie Av  
Carlstadt NJ  
Wesco Waterpaints Inc Maple St Matteson  
Ill  
Wesco Waterpaints Inc 742 Grayson Berke-  
ley 10 Cal

### ▶ PANELWORK, HARDWOOD

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Bradley Lumber Co of Ark Warren Ark  
**CONNOR LUMBER & LAND CO 231  
THOMAS WAUSAU WIS**  
**CURTIS COS INC 1200 S SECOND CLIN-  
TON IOWA**  
Curtis Cos Inc American Plywood Div New  
London Wis  
**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**  
Fleck Jones Lumber Co Inc Moncks Corner  
SC  
Fordyce-Crossett Lumber Co Fordyce Ark  
Frost Lumber Industries Drawer 1125  
Shreveport 90 La  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Hardwood Corp of America Box 1091 Ashe-  
ville NC  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
Marquart Millwork Co 50 Ceape Oshkosh  
Wis  
National Plywoods Inc 2710 Throop Chicago  
Ill  
**OLYMPIC STAINED PRODS CO 1118 LEARY  
WAY SEATTLE WASH**  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
**RODDIS PLYWOOD CORP 1155 PALMETTO  
MARSHFIELD WIS**  
Twin City Hardwood Lumber Co 509 N  
Cleveland Av St Paul 14 Minn

### ▶ PANELWORK, SOFTWOOD

Aetna Plywood & Veneer Co 1731 Elston  
Av Chicago 22 Ill  
Arrow Tank Co 16 Barnett Buffalo 15 NY

Bradley Lumber Co of Ark Warren Ark  
Brooks-Seanlon Inc Bend Ore  
**CROSSETT LUMBER CO CROSSETT ARK**  
**CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA**  
**FAIR (D L) LUMBER CO BOX 309 LOUIS-  
VILLE MISS**  
Fordyce-Crossett Lumber Co Fordyce Ark  
Frost Lumber Industries Drawer 1125  
Shreveport 90 La  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Hardwood Corp of America Box 1091 Ashe-  
ville NC  
M & M Woodworking Co Kenton Sta Port-  
land 3 Ore  
Marquart Millwork Co 50 Ceape Oshkosh  
Wis  
National Plywoods Inc 2710 Throop Chicago  
Ill  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Southern Lumber Co Warren Ark  
**SOUTHWOOD CORP BOX 391 FORT WORTH  
TEX**  
Twin City Hardwood Lumber Co 509 N  
Cleveland Av St Paul 14 Minn  
Union Lumber Co 620 Market Bldg San  
Francisco 4 Cal  
**WEYERHAEUSER SALES CO 1ST NAT'L  
BANK BLDG ST PAUL 1 MINN**

### ▶ PAPER, ASBESTOS

Acme Asbestos Covering & Flooring Co 246  
N Elizabeth Chicago 7 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
LOCKLAND CINCINNATI 15 OHIO**  
Ehret Magnesia Mfg Co Inc Crawford &  
Crosby Line Rd Valley Forge Pa  
**KEASBEY & MATTISON CO BUTLER AV  
AMBLER PA**  
Protective Papers Inc Union Ill  
**RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY**  
Sall Mountain Co 176 W Adams Chicago 3  
Ill  
Standard Asbestos Mfg Co 860 W Evergreen  
Chicago 7 Ill

### ▶ PAPER, BUILDING

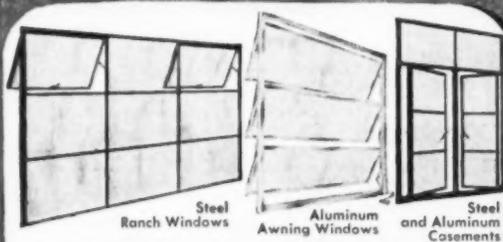
Allen Steel Prods Inc 2941 Ten-Mile Rd  
Hazel Park Mich  
**AMERICAN SISALKRAFT CORP ATLE-  
BORO MASS**  
Asbestos Asphalt Insulation Inc 2100 Fuller-  
ton Av Chicago 47 Ill  
Asbestos Co of Texas Div Carey (Philip)  
Mfg Co Box 1082 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
**BARRETT DIV ALLIED CHEMICAL & DYE  
CORP 46 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC 47 WILSON EAST WAL-  
POLE MASS**  
**CAREY (PHILIP) MFG CO 316 S WAYNE  
LOCKLAND CINCINNATI 15 OHIO**  
**BROWN CO 150 CAUSEWAY BOSTON 14  
MASS**  
**CERTAIN-TEED PRODS CORP 120 E LAN-  
CASTER AV ARDMORE PA**  
Fleming & Sons Inc 1120 E Clarendon Dallas  
8 Tex  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK 20 NY**  
Globe Siding Prods Co 2207-51 Schrage Av  
Whiting Ind  
Hewitt (C B) & Bros Inc 23 Green New  
York 13 NY  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Meadows (W R) Inc 2 Kimball Elgin Ill  
National Plywoods Inc 2710 Throop Chicago  
Ill  
Old American Roofing Mills Div Ruberoid Co  
500 Fifth Av New York 36 NY  
Old American Roofing Mills 7600 Truman  
Ed Kansas City Mo  
**PABCO PRODS INC 475 BRANNAN SAN  
FRANCISCO 19 CAL**  
Prestite Engineering Co 3900 Chouteau Av  
St Louis Mo  
Protective Papers Inc Union Ill  
Ralston (W) & Co Box B Old Bridge NJ  
Rauschenberger (John) Co 423 N Plankinton  
St Milwaukee 1 Wis  
**RICKKRAFT CO 510 N DEARBORN CHI-  
CAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY**  
Thilmany Pulp & Paper Co Kaukauna Wis  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**  
Walt & Sons Paper Co 426 W Larned De-  
troit 25 Mich

### ▶ PAPER, BUILDING, REINFORCED, WATERPROOF

**AMERICAN SISALKRAFT CORP ATLE-  
BORO MASS**  
Angier Corp Fountain St Framingham Mass  
Asbestos Asphalt & Insulation Inc 2100  
Fullerton Av Chicago 47 Ill  
**BIRD & SON INC 47 WILSON EAST WAL-  
POLE MASS**  
Bonafide Mills Inc 295 Fifth Av New York  
NY

421

# Who but TRUSCON can offer you THE MOST COMPLETE LINE OF



Steel Ranch Windows    Aluminum Awning Windows    Steel and Aluminum Casements

## RESIDENTIAL WINDOWS

Truscon types for every style of architecture

**RANCH** types suited to one-story homes. Can be fitted with double insulating glass.

**ALUMINUM AWNING WINDOW**—Truscon's newest. Modular designed to match masonry dimensions. Strong; rigid. Vinyl plastic weatherstripping.

**CASEMENTS, STEEL AND ALUMINUM**—America's standard of casement value. Aluminum casement modular designed.



Double-Hung Steel Windows

**DOUBLE-HUNG STEEL WINDOW**—A Truscon exclusive. Largest selling unit of its type. Stainless steel weatherstripping and motor spring balances built in.

*Screens and storm sash available.*

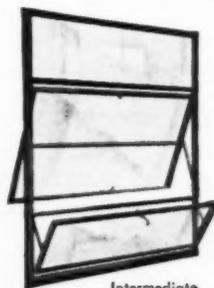
Most popular types and sizes stocked in convenient Truscon warehouses.



Steel Basement Windows



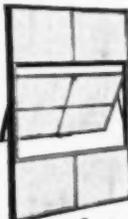
Architectural



Intermediate

## PROJECTED WINDOWS

**ARCHITECTURAL PROJECTED** steel windows; ample light and ventilation, plus freedom from drafts. For buildings of all types. Heavy ventilator sections. Minimum air infiltration.



Commercial

**INTERMEDIATE PROJECTED**—great variety of sizes and design for every type of building—including residential. Special heavy sections. Projected ventilator movement provides flexible control and weather-protection.

**COMMERCIAL PROJECTED.** Ventilator projects in or out depending upon the need and space requirements. All-steel.

Many popular types and sizes stocked in convenient Truscon warehouses.

## INTERIOR STEEL DOORS

Truscon **STEEL DOORS** and **FRAMES** won't warp, swell, shrink or stick. Bonderized and baked-on prime-coats, readily painted. Available in many standard door opening dimensions.



Sliding closet door

**SLIDING DOORS** provide complete closet accessibility plus extra usable floor space. Economical to install. Precision-made, heavily reinforced. Slide easily, quietly on nylon rollers. 6' 8" and 8' 0" tall. Four opening widths: 3' 0", 4' 0", 5' 0", 6' 0".

Popular sizes available through Truscon warehouse stocks.



Swing door

## INDUSTRIAL DOORS



Swing doors

Built to withstand hard usage. Made of carefully formed heavy gage tubular steel members, reinforced at corners and electrically welded at joints. Sturdy and well adapted to constant service requirements. Available in single and double slide and swing types, for standard door opening dimensions.



Sliding doors



# METAL BUILDING PRODUCTS!

● Here are products you need on every construction job from the moment the first shovel of earth is turned. All are manufactured by Truscon—world's largest fabricator of steel building products—and feature the quality and craftsmanship you've the right to expect from the leader.

For example, Truscon steel windows are Bonderized, and given a baked-on prime coat of high quality Bakelite-base paint. They can't rot, warp, shrink, swell or stick. Truscon steel doors and frames assure perfect fit and

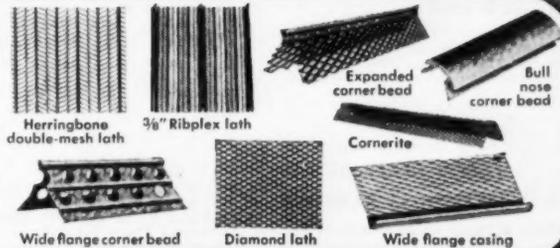
permanent, trouble-free operation. Mass production and fast, easy installation mean important on-the-job economies.

Check the advantages of *all* the items listed here. Then concentrate on Truscon as the source for your metal building products—for dependability, for responsibility, and for quality backed by a fifty-year reputation of outstanding service to the building industry. Detailed literature describing all Truscon products will be sent you upon request.

## METAL LATH and ACCESSORIES

"Metal Lath for Strength—Plaster for Beauty"

The plaster base for walls and ceilings that meets all requirements of modern construction; accepted by all building codes. Easy to erect and work over; easily formed into unusual shapes. Holds plaster firmly even when exposed to shock and vibration. Affords fire-resistive qualities.



## "O-T" OPEN TRUSS<sup>®</sup> STEEL JOISTS

Great rigidity. High fire resistance; simple to install. Lightweight. "O-T" Nailer Joists also available with wood nailer strips applied.



## "CLERESPAN"<sup>®</sup> JOISTS

Provide clear spans up to 64 feet. Lightweight. Easily installed. Eliminate columns. Wood nailer strips easily attached.



## FERROBORD<sup>®</sup> STEEL ROOFDECK

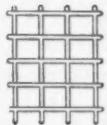
For any type of structure. Strong; lightweight. Roofs large areas quickly. Full-length interlocking. Units long enough to span over three or more purlin spacings.



## REINFORCING BARS WELDED WIRE FABRIC

For reinforcing concrete slabs, footings, walls, beams, girders, columns. Available from warehouse stocks.

Reinforces and protects concrete slabs in driveways, foundations, steps and floors. Available in rolls from warehouse stocks.



TRUSCON<sup>®</sup>  
a name  
you can build on

Other Truscon Metal Building Products include: Maxim-Air, Donovan, Detention, Pivoted, and Security Steel Windows; Continuous Steel Windows; Lintels; Pressed Steel Inserts; Curb Bars; Expanded Metal; Complete Steel Buildings, Radio Towers.

## TRUSCON STEEL DIVISION REPUBLIC STEEL

1050 ALBERT STREET • YOUNGSTOWN 1, OHIO  
Export Department: Chrysler Building, New York 17, New York



**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Hosking Paper Co 1301 Lake Av Wilmette Ill  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Od American Roofing Mills 7600 Truman Rd Kansas City Mo  
 Protective Papers Inc Union Ill  
 Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
**RICKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Thilmany Pulp & Paper Co Thilmany Rd Kaukauna Wis  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

**▶ PAPER, CONCRETE CURING**

**AMERICAN SISALKRAFT CORP ATTLEBORO MASS**  
 Angier Corp Fountain St Framingham Mass  
 Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
 Hosking Paper Co 1301 Lake Av Wilmette Ill  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
 Protective Papers Inc Union Ill  
**RICKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Thilmany Pulp & Paper Co Kaukauna Wis  
 Waseco Flashing Co 87 Fawcett Cambridge Mass  
 Welt & Sons Paper Co 426 W Larned Detroit 25 Mich

**▶ PAPER, COPPER ARMORED**

**AMERICAN SISALKRAFT CORP ATTLEBORO MASS**  
 Angier Corp Fountain St Framingham Mass  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**

**▶ PAPER, SILO LINER**

Angier Corp Fountain St Framingham Mass  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Old American Roofing Mills Div Euberoid Co 500 Fifth Av New York 36 NY  
 Presstite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
 Protective Papers Inc Union Ill  
 Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
**RICKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
 Thilmany Pulp & Paper Co Kaukauna Wis

**▶ PAPER, STACK COVER**

**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Protective Papers Inc Union Ill  
**RICKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**

**▶ PARTITIONS, FOLDING**

Curtition Co 2227 Sawtelle Blvd West Los Angeles Cal  
 Holcomb & Hoke Co 1545 Van Buren Indianapolis 7 Ind  
**HOUGH SHADE CORP 1203 S JACKSON JANESVILLE WIS**  
**RICHARDS-WILCOX MFG CO 220 THIRD AURORA ILL**  
 International Steel Co 1321 Edgar Evansville 7 Ind  
**NEW CASTLE PRODS CO NEW CASTLE IND**

**▶ PARTITIONS, GLASS, STRUCTURAL**

Allied Synthetic Co 4654 De Soto San Diego 9 Cal  
**ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL**  
 Corralux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex  
 Genaco Tool Div General Steel Warehouse Co 1830 N Kostner Av Chicago 39 Ill  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
**LIBBEY-OWENS-FORD GLASS CO 12TH FLOOR NICHOLAS BLDG TOLEDO OHIO**  
 Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Plymold Co 2707 Tulare Av Burbank Cal  
 Richards (J Merrill) 25 Huntington Av Boston 16 Mass

**▶ PARTITIONS, OFFICE, HARDWOOD**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Craftwood Prods 94 Stevenson Belleville NJ  
 Petterson (J C) Co 3167 W Mission Rd Alhambra Cal  
 U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal

**▶ PARTITIONS, PLASTIC BLOCKS**

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 Genaco Tool Div General Steel Warehouse Co 1830 N Kostner Av Chicago 39 Ill  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal

**▶ PARTITIONS, STEEL**

Aetna Steel Prods Corp 730 Fifth Av New York 19 NY  
 Alabama Metal Lath Co Box 992 Birmingham 1 Ala  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 All Metal Partition Co Inc 206 DuPont Brooklyn 22 NY  
**BERGER MFG CO DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
 Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
 Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich  
 Hauserman (E F) Co 6850 Grant Av Cleveland 5 Ohio  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
 Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
 Macomber Inc 1925 10th NE Canton 1 Ohio  
 Mahon (R C) Co 8650 Mt Elliot Detroit 11 Mich  
 Martin-Parry Corp 1455 W Alexis Rd Box 964 Toledo Ohio  
 Meyers (Fray L) Mfg Co 1176 Hooen Av Hamilton Ohio  
 Mills Co 965 Wayside Rd Cleveland 10 Ohio  
 Milwaukee Stamping Co 824 S 72nd Milwaukee 14 Wis  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PENNY METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
 Sanymetal Prods Inc 1701 Urbana Rd Cleveland 12 Ohio  
 Steel Partitions Inc Box 807 Jamestown NY  
 Stran-Steel Div Great Lakes Steel Corp Ecorse Detroit 29 Mich  
 Virginia Metal Prods Inc Dept A-44 Orange Va  
 Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis  
 Weber Showcase & Fixture Co 5700 Avalon Blvd Los Angeles 54 Cal  
 Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind  
 Wheeling Corrugating Co Wheeling W Va

**▶ PARTITIONS, TOILET**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 All Metal Partition Co Inc 206 DuPont Brooklyn 22 NY  
**FIAT METAL MFG CO 9301 BELMONT AV FRANKLIN PARK ILL**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
**MARSH WALL PRODS INC 268 MAIN DOVER OHIO**  
 Petterson (J C) Co 3167 W Mission Rd Alhambra Cal  
 Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis  
 Weis (Henry) Mfg Co Inc 941 Oak Elkhart Ind  
**WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX**

**▶ PARTITIONS, WOOD, FIBER, GYPSUM, OTHER COMPOSITIONS, MATERIALS FOR**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Bloxolite Co of America Div Hachmeister Inc Pittsburgh Pa  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
 Corralux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex

Forest Fiber Prods Corp Box 66 AB Forest Grove Ore  
 Genaco Tool Div 1830 N Kostner Av Chicago 39 Ill  
 International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
 Macomber Inc 1925 Tenth Canton 1 Ohio  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**RESOLITE CORP ZELIENOPLE PA**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 U S Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**WRIGHT MFG CO 6567 HOUSTON 5 TEX**

**▶ PASTE, WALLPAPER**

Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland Ohio  
 Commercial Paste Co Bottles at Michigan Columbus 8 Ohio  
 Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
 Crescent Prods Co Terre Haute Ind  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
 Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill  
 Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
 Le Page's Inc 40 Swanson Gloucester 41 Mass  
 Miner-Hillard Milling Co 826 Second Nat'l Bank Bldg Wilkes Barre Pa  
 Patent Cereals Co Bradford St Geneva NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Sisk (R J) Co New London Conn  
 Stamfco Wallpaper Co Inc Taylor & Manin Sts Stamford Conn  
 Tammis Industries Inc 228 N LaSalle Chicago 1 Ill  
 Wesco Waterpaints Inc Matteson Ill

**▶ PENCILS, CARPENTER'S**

Blaisdell Pencil Co 141 Berkeley Philadelphia Pa  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Dietzen (Eugene) Co 2425 N Sheffield Av Chicago 14 Ill  
 Rendo (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Eagle Pencil Co 703 E 13th New York 9 NY  
 Eberhard-Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY  
 Economy Novelty & Printing Co 225 W 39th New York 18 NY  
 Faber-Castell (A W) Pencil Co 41 Dickerson Newark NJ  
 Keuffel & Esser Co Adams & Third Hoboken NJ  
 Koh-I-Noor Pencil Co 373 4th Av New York NY  
 Linton Pencil Co Lewisburg Tenn  
 Murphy (Thomas D) Co Red Oak Iowa  
 Renco 4372 W Ogden Chicago 25 Ill  
 Shield-Brown Mfg Co 311-321 5th Av S Minneapolis 15 Minn  
**WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS**

**▶ PENCILS, DRAFTING**

Dixon (Joseph) Crucible Co 167 Wayne Jersey City 3 NJ  
 Eagle Pencil Co 703 E 13th New York 9 NY  
 Eberhard-Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY  
 Faber-Castell (A W) Pencil Co 41 Dickerson Newark 4 NJ

**▶ PILING**

Armco Drainage & Metal Prods Inc 1939 Armo Av Middletown Ohio  
 Inland Steel Co 38 S Dearborn Chicago 3 Ill  
 Southwestern Crossoting Co Box 935 Muskego Okla

**▶ PIPE, ASBESTOS CEMENT**

**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KEASBEY & MATTISON CO BUTLER AV AMBLER PA**  
 Smith & Kanzler Inc E Linden Av Elizabeth NJ  
 Standard Mfg Co 220 E 4th Cedar Falls Iowa

**▶ PIPE, CAST IRON, SOIL & FITTINGS**

Anniston Soil Pipe Co Inc Box 191 Anniston Ala  
 Brady Conveyors Corp 20 W Jackson Chicago  
 Clow (James H) & Sons 201-209 N Talman Av Chicago 80 Ill

Combustion Engineering Inc 200 Madison Av  
New York 16 NY  
**CRANE CO 836 S MICHIGAN AV CHICAGO  
ILL**  
Eastern Foundry Co Boyertown Pa  
Industrial Iron Wks Box 4625 6011 S W Mac-  
adam Portland 1 Ore  
Medina Iron & Brass Co Medina NY  
Western Foundry Co 2400 SW Water Av Port-  
land 1 Ore  
**WOODWARD IRON CO WOODWARD ALA**  
Zurn (J A) Mfg Co Erie Pa

### ► PIPE, CLAY, SEWER

Acme Brick Co Box 425 Ft Worth Tex  
American Vitrified Prods Co 701 Nat'l Bond  
Bldg Cleveland 14 Ohio  
Bowerston Shale Co Bowerston Ohio  
California Pottery Co Niles Cal  
Cannelton Sewer Pipe Co 4th & Washington  
Cannelton Ind  
Carey Brick Co 6558 W Fullerton Chicago Ill  
Chehalis Brick & Tile Co Chehalis Wash  
Clark (N) & Sons Div Pacific Clay Prods Ala-  
ameda Cal  
Clay City Pipe Co Uhrichville Ohio  
Columbia Pipe Co Columbia SC  
Dee Clay Prods Co Bloomingdale Ind  
Dennison Sewer Pipe Corp 3334 Prospect Av  
Cleveland 15 Ohio  
Denver Sewer Pipe & Clay Co 4501 Fox Box  
2329 Denver Colo  
Dickey (W S) Clay Mfg Co 607 Commerce  
Trust Bldg Kansas City 6 Mo  
Evans Brick Co Uhrichville Ohio  
Evans Pipe Co Uhrichville Ohio  
Evans & Howard Sewer Pipe Co 5200 Man-  
chester Av St Louis 10 Mo  
Gagnon Clay Prods Co 526 S Broadway Green  
Bay Wis  
Gladding-McBean & Co 2901 Los Feliz Blvd  
Los Angeles Cal  
Interstate Brick Co 3100 S 11th E Box 144  
Sugarhouse Sta Salt Lake City 6 Utah  
Iowa Pipe & Tile Co Des Moines Iowa  
Junction City Clay Co 3334 Prospect Av Cleve-  
land 15 Ohio  
Kaul Clay Mfg Co Spring St Box 128 Toronto  
Ohio  
**LACLEDE CHRISTY CO 2801 HEREFORD  
ST LOUIS 9 MO**  
Lehigh Sewer Pipe & Tile Co Box 728 Fort  
Dodge Iowa  
Logan Clay Prods Co Logan Ohio  
Lovell Clay Prods Co Lovell Wyo  
**NATIONAL CLAY PIPE MFERS INC 100 N  
LASALLE CHICAGO 2 ILL**  
Oonsee Clay Prods Co Box 262 Milledgeville Ga  
Owensboro Sewer Pipe Co Owensboro Ky  
Pacific Clay Prods 306 W Avenue 26 Los  
Angeles 31 Cal  
Pattin Clay Mfg Co Foot of Terra Cotta Av  
Pattin Pa  
Pomona Terra-Cotta Co Pomona NC  
Red Wing Sewer Pipe Corp Box 116 Red Wing  
Minn  
Robinson Clay Prods Co Second Nat'l Bank  
Bldg Akron 9 Ohio  
St Mary's Clay Prods Co St Mary's Pa  
Stillwater Clay Prods Co 3334 Prospect Av  
Cleveland 15 Ohio  
Streator Drain Tile Co Streator Ill  
Superior Clay Corp Uhrichville Ohio  
Texas Vitrified Pipe Co Box 111 Mineral Wells  
Tex  
Union Clay Mfg Corp Binghamton NY  
Universal Sewer Pipe Corp 1509 Union Com-  
merce Bldg Cleveland 14 Ohio  
Washington Brick & Lime Co Spokane Wash  
What Cheer Clay Prods Co What Cheer Iowa  
Wisconsin Face Brick & Supply Corp 4485 N  
Green Bay Av Milwaukee Wis

### ► PIPE, CONDUCTOR, EAVES TROUGH

Alabama Metal Lath Co Inc 3235 Fayette Av  
Birmingham 1 Ala  
Badger Corrugating Co 1801-35 West Av S  
LaCrosse Wis  
**BERGER MFG DIV REPUBLIC STEEL  
CORP CANTON 5 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 30 ILL**  
**CHASE BRASS & COPPER CO INC 236  
GRAND WATERBURY 20 CONN**  
Hopson (W C) Co 216-220 Grandville Av  
Grand Rapids 2 Mich  
Hussey (C G) & Co 2950 Second Av Pittsburgh  
19 Pa  
**INLAND STEEL PRODS CO 4045 W BURN-  
HAM MILWAUKEE 1 WIS**  
Klauer Mfg Co 9th & Washington Dubuque  
Iowa  
LaCrosse Steel Roofing & Corrugating Co 227  
Jay LaCrosse Wis  
Lyon, Conklin & Co Inc Race & McComas  
Baltimore 30 Md  
Martin Metal Mfg Co Wichita Kan  
**METALBESTOS DIV WILLIAMS-WALLACE  
CO BELMONT CAL**  
New Orleans Roofing & Metal Co New Orleans  
La  
Newport Steel Corp 9th & Lowell Newport Ky  
Northwest Metal Prods Inc 55 Spokane Seattle  
Wash

Penn Supply & Metal Corp 1831 N 5th Phila-  
delphia 22 Pa  
Potts-Farrington Co 1224 Cherry Philadelphia  
7 Pa  
Quaker State Metals Co Manheim Pike at City  
Bypass Lancaster Pa  
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio  
**REYNOLDS METALS CO BLDG PRODS DIV  
2001 S 9TH LOUISVILLE 1 KY**  
**ST PAUL CORRUGATING CO SOUTH END  
WABASHA BRIDGE ST PAUL 1 MINN**  
Tiffin Art Metal Co Tiffin 16 Ohio  
United States Steel Co 525 William Penn Pl  
Pittsburgh 30 Pa  
Wheeling Corrugating Co Wheeling W Va  
York Corrugating Co Adams St & PRR York  
Pa

### ► PIPE, CULVERT, IRON & STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Armo Drainage & Metal Prods Inc 1939  
Armo Av Middletown Ohio  
Armo Steel Corp 703 Curtis Middletown Ohio  
Beall Pipe & Tank Corp Portland Ore  
Eaton Metal Prods Corp 1301 Willis Av Omaha  
2 Neb  
Industrial Iron Wks Box 4625 6011 SW Mac-  
adam Portland 1 Ore  
Newport Steel Corp 9th & Lowell Newport Ky  
Republic Steel Corp Republic Bldg Cleveland  
1 Ohio  
**ST PAUL CORRUGATING CO SOUTH END  
WABASHA BRIDGE ST PAUL 1 MINN**  
Tennison Bros Inc 450 N Bellevue Memphis 1  
Tenn  
United States Steel Co 525 William Penn Pl  
Pittsburgh 30 Pa  
**UNITED STATES STEEL FABRICATORS  
INC WOOSTER OHIO**  
Wheeling Corrugating Co Wheeling W Va

### ► PIPE, FIBER CONDUIT

Fibre Conduit Co Orangeburg NY  
**SONOCO PRODS CO SOUTH ST HARTS-  
VILLE SC**

### ► PIPE JOINT SEALING COMPOUNDS

Anti-Hydro Waterproofing Co 265 Badger Av  
Newark 8 NJ  
Arco Co 7301 Bessemer Cleveland 4 Ohio  
Asbestos Asphalt Insulation Inc 2100 Fullerton  
Av Chicago 47 Ill  
Asbestos Co of Tex Div Carey (Philip) Mfg Co  
Box 1082 Houston 1 Tex  
Atlas Mineral Prods Co Mertztown Pa  
Blue Ridge Tale Co Inc Henry Va  
Boyer Chemical Laboratory Co Inc 2232 Wa-  
bash Av Chicago 16 Ill  
**CALBAR PAINT & VARNISH CO 3612 N  
MARTHA PHILADELPHIA 25 PA**  
**CAREY (PHILIP) MFG CO CINCINNATI 15  
OHIO**  
Curtis Mfg & Asbestos Co 29 Lewis Wharf  
Boston 10 Mass  
Dixon (Joseph) Crucible Co 167 Wayne Jersey  
City NJ  
DuPont (E I) de Nemours & Co 1007 Market  
Wilmington 98 Del  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK NY**  
Gillespie Varnish Co Dey & Howell Jersey City  
NJ  
Horn (A C) Co Tenth & 44th Av Long Island  
City 1 NY  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Kaul Clay Mfg Co Spring St Box 128 Toronto  
Ohio  
Koppers Co Inc Tar Prods Div Pittsburgh 19  
Pa  
Lake Chemical Co 3052 W Carroll Chicago 12  
Ill  
Liebich (G L) Co 931 N Orden Chicago 22 Ill  
Meadows (W R) Inc 2-18 Kimball Elgin Ill  
**PECORA PAINT CO INC 4TH & RDG RR  
PHILADELPHIA 40 PA**  
Presatite Engineering Co 3900 Chouteau Av  
St Louis 10 Mo  
Quigley Co Inc 527 Fifth Av New York 17 NY  
Reilly Tar & Chemical Corp Indianapolis Ind  
Republic Crenosoting Co 1615 Merchant Bank  
Bldg Indianapolis 4 Ind  
Robinson Clay Prod Co Second National Bank  
Bldg Akron 9 Ohio  
Sauereisen Cements Co 1045 N Canal Pitts-  
burgh 15 Pa  
Servicised Prods Corp 6051 W 65th Chicago 38  
Ill  
Smooth-On Mfg Co 568-574 Communipaw Av  
Jersey City 4 NJ  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
X-Pando Corp 43-15 36th Long Island City 1  
NY

### ► PIPE, SEWER, BITUMINIZED FIBER

**BROWN CO 150 CAUSEWAY BOSTON 14  
MASS**  
**ORANGEBURG MFG CO INC 48 THOMAS  
ORANGEBURG NY**

### ► PIPE, SEWER, CONCRETE

American Vitrified Prods Co Cleveland 14  
Ohio  
Graystone Concrete Prods Co 134 Nickerson  
Seattle 9 Wash  
Price Bros Co 1932 E Monument Dayton 1  
Ohio  
Universal Concrete Pipe Co Inc 297 S High  
Columbus 15 Ohio

### ► PIPE, STEEL

Allegheny Ludlum Steel Corp Pittsburgh 22 Pa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Armo Drainage & Metal Prods Inc 1939  
Armo Av Middletown Ohio  
Beall Pipe & Tank Corp Portland Ore  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
Colorado Fuel & Iron Corp Continental Oil  
Bldg Denver 2 Colo  
Columbia-Geneva Steel Div U S Steel Corp  
Russ Bldg San Francisco 6 Cal  
Dempster Mill Mfg Co Beatrice Neb  
Jones & Laughlin Steel Corp 3 Gateway Cen-  
ter Pittsburgh 30 Pa  
Laclede Steel Co Arcade Bldg St Louis Mo  
National Tube Div U S Steel Corp 525 William  
Penn Pl Pittsburgh Pa  
Newport Steel Corp 9th & Lowell Newport Ky  
Republic Steel Corp Republic Bldg Cleveland  
Ohio  
Ryerson (Joseph T) & Son 2558 W 16th Chi-  
cago 8 Ill  
Wheeling Steel Corp Wheeling W Va  
Youngstown Steel Prods Youngstown Ohio

### ► PIPE, STEEL GALVANIZED

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Armo Steel Corp 703 Curtis Middletown Ohio  
Banbrick (Richard J) 125 Broad New York  
4 NY  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
Columbia-Geneva Steel Div U S Steel Corp  
Russ Bldg San Francisco 6 Cal  
Jones & Laughlin Steel Corp 3 Gateway Cen-  
ter Pittsburgh 30 Pa  
National Tube Div U S Steel Corp 525 William  
Penn Pl Pittsburgh Pa  
Republic Steel Corp Republic Bldg Cleveland  
4 Ohio  
**UNITED STEEL FABRICATORS INC WOOS-  
TER OHIO**  
Wheeling Steel Corp Wheeling W Va  
Youngstown Sheet & Tube Co Youngstown 1  
Ohio

### ► PIPE, WOOD

Arrow Tank Co Inc 16 Barnett Buffalo 15 NY  
Baltimore Cooperage Tank & Tower Co Balti-  
more Md  
Caldwell (W E) Co 2320 Brook Louisville 8 Ky  
Caspar Lumber Co Hobart Bldg San Francisco  
Cal  
Johnson & Carlson 847 W Eastman Chicago  
22 Ill  
M & M Woodworking Co Resnprest Div 2301  
N Columbia Portland 17 Ore  
Pacific Wood Tank Corp 461 Market San Fran-  
cisco 5 Cal  
Redwood Mfrs Co Hobart Bldg San Francisco  
Cal  
Willamette Valley Lumber Co Dallas Ore  
Wyckoff (A) & Son Co Elmira NY

### ► PIPE, WROUGHT IRON

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Byers (A M) Co Clark Bldg Pittsburgh Pa  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
Crane Co 836 S Michigan Av Chicago Ill  
Dempster Mill Mfg Co 711 S 6th Beatrice Neb  
South Chester Tube Co Chester Pa

### ► PIPE & TUBING, ALUMINUM

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
**AMERICAN BRASS CO 414 MEADOW  
WATERBURY 20 CONN**  
Blum (Julius) & Co Inc 532 W 22nd New  
York 11 NY  
Kaiser Aluminum & Chemical Sales Inc 1924  
Broadway Oakland 12 Cal  
**REYNOLDS METALS CO BLDG PRODS DIV  
2001 S 9TH LOUISVILLE 1 KY**

### ► PIPE & TUBING, BRASS & COPPER

**AMERICAN BRASS CO 414 MEADOW  
WATERBURY 20 CONN**  
American Sanitary Mfg Co Abingdon Ill  
Bridgeport Brass Co 30 Grand Bridgeport 2  
Conn

**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 26 CONN**  
 Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
 Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
**REVERE COPPER & BRASS INC 230 PARK AV NEW YORK 17 NY**  
 Scovill Mfg Co 100 Mill Waterbury Conn  
 Wolverine Tube Div Calumet & Hecla Inc 1465 Central Av Detroit 9 Mich

**▶ PIPE & TUBING, PLASTIC**

American Extruded Prods Co Hollywood 38 Cal  
 Amerline Inc 1753 N Honore Chicago 22 Ill  
 Atlas Mineral Prods Co Mertztown Pa  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
 Carlon Prods Corp 10225 Meech Av Cleveland 5 Ohio  
 Detroit Macoid Corp 12340 Cloverdale Av Detroit Mich  
 Eastman Chemical Prods Inc Kingsport Tenn  
 Extruded Plastics Inc Norwalk Conn  
 Goodrich (B F) Co 500 S Main Akron Ohio  
 Johnson Plastics Corp Box 212 Chagrin Falls Ohio  
**MONSANTO CHEMICAL CO 600 MONSANTO AV SPRINGFIELD MASS**  
 Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Superior Plastics Inc 410-430 N Oakley Blvd Chicago 12 Ill  
 United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
 Visking Corp Merchandise Mart Plaza Chicago 38 Ill

**▶ PLANERS**

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 2 MO**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
 DeWalt Inc Fountain Av Lancaster Pa  
 Enterprise Co South Main Columbiana Ohio  
 Greenlee Bros & Co 2136 12th Rockford Ill  
 Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo  
 Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio

Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
 Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio  
 Porter (C O) Machinery Co 666-68 Front Av NW Grand Rapids 4 Mich  
 Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH PA**  
 Sibley (Edward L) Mfg Co Inc 222 W Main Bennington Vt  
 Stetson-Ross Machine Co 3200-1st Av S Seattle 4 Wash  
 Toolcraft Corp Plainfield Springfield 1 Mass  
 Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
 Whitney (Baxter D) & Son Inc Winchendon Mass  
 Yates-American Machine Co Beloit Wis

**▶ PLANES**

**MALL TOOL CO 7740 SOUTH CHICAGO AV CHICAGO 19 ILL**  
 Metal Prods Corp 510 First Av West Haven Conn  
 Millers Falls Co Greenfield Mass  
 Peck Stow & Wilcox Co Southington Conn  
 Porter-Cable Machine Co 1721 N Salina Syracuse 8 NY  
**SARGENT & CO 45 WATER ST NEW HAVEN CONN**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

**▶ PLANKS, ASPHALT**

**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
 Protective Papers Inc Union Ill  
 Serviceised Prods Corp 6051 W 65th Chicago 38 Ill

**▶ PLANKS, EXTENSION**

American Ladder Co 5509 NW 7th Av Miami 38 Fla  
 Babcock (W W) Co Inc Delaware Av Bath NY  
 Bauer Mfg Co Palmer St Wooster Ohio  
 Berg (John) Mfg Co 5319 S LaSalle Chicago Ill  
 Breyer Bros Whiting & Co Waupun Wis  
 Clark (J R) Co Spring Park Minn

Flint (A W) Co 85 Lloyd New Haven 6 Conn  
 Goshen Churn & Ladder Inc 1930 Estes Blvd Goshen 4 Ind  
 Goshen Mfg Co 10th & Reynolds Goshen Ind  
 Holland Ladder & Mfg Co 13053 W 17th Holland Mich  
 Howard Mfg Co of Cal 2428 E 56th Los Angeles 58 Cal  
 Plasteron Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
 Tilley (John S) Ladders Co 112 Second Water-vliet NY  
 Woodenware Prods Corp 122 N Seventh St Louis 1 Mo

**▶ PLANKS, FIBER, INSULATING**

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Badger Corrugating Co 1801-39 West Av S La-Crosse Wis  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE**  
 Durisol Inc 420 Lexington Av New York 17 NY  
 Fir-Tex Insulating Board Co US Nat'l Bank Bldg Portland Ore  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
**INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN**  
**JOHNS-MANVILLE CORP BOX 290 22 E 40TH NEW YORK 16 NY**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
 Plasteron Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
 Simpson Logging Co White Bldg Seattle 1 Wash  
 Tectum Corp 105 S Sixth Newark Ohio  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

**▶ PLANKS, GYPSUM**

**CERTAIN-FEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

OUTSTANDING 1954 RAILINGS THAT SELLS HOUSES

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- Easy-action swing-tip
- Easy-to-read crackproof white blade
- Built-in automatic brake

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**CARLSON & SULLIVAN, INC.**  
 MONROVIA, CALIFORNIA

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 IMPROVED VINYL-PLASTIC TILE FLOORING

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**MOULTILE, INC.**

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## ▶ PLAN SERVICES

All Climates Plan Book Agency 2426 N Tejon Colorado Springs Colo  
American Plan Service Co 5054 Biscayne Blvd Miami Fla  
Architectural Plan Service Inc 89-51 164th Jamaica 3 NY  
Baird (J Malcolm) Architectural Designer Mound Minn  
**BETTER HOMES & GARDENS 1714 LOCUST DES MOINES 3 IA**  
Brown-Blodgett Inc St Paul Minn  
Builders Planning Service 120 Machin Peoria 5 Ill  
Continental Steel Corp Kokomo Ind  
**GARLINGHOUSE (L F) CO INC 820 QUINCY TOPEKA KAN**  
Good Housekeeping 57th at 8th Av New York 19 NY  
Home Building Plan Service 2454 NE Sandy Blvd Portland 12 Ore  
Homograf Co 11711 E Eight-Mile Rd East Detroit Mich  
Home Plan Book Co St Paul Minn  
Home Planners Inc 16310 Grand River Detroit 27 Mich 4 Ore  
**HOME OF THE WEEK PLAN SERVICE 89 ELMGROVE AV PROVIDENCE 6 RI**  
National Plan Service Inc 1315 W Congress Chicago Ill  
Nationwide House Plan Service 17 Hewes Providence RI  
**PARENTS MAGAZINE 52 VANDERBILT AV NEW YORK 17 NY**  
Simmons-Boardman Pub Corp 30 Church New York 7 NY  
Standard Homes Co 2524 "L" NW Washington 7 DC  
U-Build Enterprises Van Nuys Cal  
Universal Plan Service 332 Builders Exchange Bldg Portland 4 Ore  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

## ▶ PLANS, HOUSE, IN BOOKS

Architectural Plan Service Inc 89-51 164th Jamaica 3 NY  
Brown-Blodgett Inc St Paul Minn  
**CELOTEX CORP 120 S LA SALLE CHICAGO 3 ILL**  
Cleveland Publications 448 S Hill Los Angeles Cal  
**GARLINGHOUSE (L F) CO INC 820 QUINCY TOPEKA KAN**  
Home Building Plan Service 2454-NE Sandy Blvd Portland 12 Ore  
Home Plan Book Co St Paul 4 Minn  
Home Planners Inc 16310 Grand River Detroit 27 Minn  
**HOME OF THE WEEK PLAN SERVICE 89 ELMGROVE AV PROVIDENCE 6 RI**  
Housing Plan Service Inc 140 Nassau New York 7 NY  
National Plan Service Inc 1315 W Congress Chicago Ill  
**SIMMONS-BOARDMAN PUB CORP 30 CHURCH NEW YORK 7 NY**  
Standard Homes Co 2524 "L" NW Washington 7 DC  
Universal Plan Service 332 Builders Exchange Bldg Portland 4 Ore  
**WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN**

## ▶ PLASTER, ACOUSTICAL

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill  
Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa  
Builder's Fireplace & Supply Co 2604 Link Rd Houston Tex  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio  
**GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL**  
**KEASBEY & MATTISON CO BUTLER AV AMBLER PA**  
Kelley Island Lime & Transport Co Leader Bldg Cleveland 14 Ohio  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles 12 Cal  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
Nelson (E F) Mfg Co 401 NE Main Minneapolis 13 Mich  
Schundler (F E) & Co Inc 504 Railroad Joliet Ill  
Silbrico Corp 5901 W 66th Chicago 38 Ill  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N La Salle Chicago 1 Ill  
Texas Vermiculite Co 303 Brazos Austin Tex  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
Western Mineral Prods Co 1820 Madison NE Minneapolis Minn  
**ZONOLITE CO 135 S LA SALLE CHICAGO 3 ILL**

## ▶ PLASTER, ASBESTOS

**KEASBEY & MATTISON CO BUTLER AV AMBLER PA**

## ▶ PLASTER, BONDING

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**LARSEN PRODS CORP 4934 ELM BETH-ESDA MD**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**NU-WALL MFG CO 923 N 19TH MILWAU-KEE 3 WIS**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, CASTING

**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WARREN-KNIGHT CO 136 N 12TH PHILA-DELPHIA 7 PA**

## ▶ PLASTER, CEDAR

Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
Tamm Industries Inc 228 N La Salle Chicago 1 Ill

## ▶ PLASTER, FIBERED

Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
Fairmont Wall Plaster Co Fairmont W Va  
Grand Rapids Plaster Co Grand Rapids 2 Mich  
Ideal Cement Co Colorado Div 500 Denver Bldg Denver 2 Colo  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, FINISHING, COLORED

Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa  
Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
Grand Rapids Plaster Co Grand Rapids 2 Mich  
Made-Rite Prods Inc 2410 S 7th St Louis Mo  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, FINISHING, MOULDING, GAUGING

Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Grand Rapids Plaster Co Grand Rapids Mich  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, GYPSUM

Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Grand Rapids Plaster Co Grand Rapids Mich  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, INSULATING

American Bildrok Co 2001 W Pershing Rd Chicago 9 Ill

Camp Co Inc 6958 S State Chicago 21 Ill  
**GREAT LAKES CARBON CORP PERLITE DIV 612 S FLOWER LOS ANGELES 17 CAL**

Mikolite Sales Corp Encampment Wyo  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
Schundler (F E) & Co Inc 504 Railroad Joliet Ill  
Texas Vermiculite Co 303 Brazos Austin Tex  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**ZONOLITE CO 135 S LASALLE CHICAGO 3 ILL**

## ▶ PLASTER, LIME

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
Grand Rapids Plaster Co Grand Rapids 2 Mich  
Kelley Island Lime and Transport Co Leader Bldg Cleveland 14 Ohio  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER, PATCHING

Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
American Fluoresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio  
**CERTAIN-TEED PRODS CO 120 E LANCASTER ARDMORE PA**  
Chicago Bronze & Color Wks 2601-75 W Grand Ave Chicago 12 Ill  
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
Commercial Paste Co Bottles at Michigan Columbus 8 Ohio  
Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
Durham (Donald) Co Box 804 Des Moines 4 Iowa  
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
Grand Rapids Plaster Co Grand Rapids 2 Mich  
Hayes Adhesives Co Inc 1770 S Canalport Av Chicago 16 Ill  
Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo  
Ideal Cement Co Colorado Div 500 Denver National Bldg Denver 2 Colo  
Made-Rite Prods Inc St Louis Mo  
Minneapolis Builders Supply Co 927 Second Av South Minneapolis 2 Minn  
Muralo Co Inc 566 Richmond Ter Staten Island NY  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
Reardon Co 7501 Page Av St Louis 14 Mo  
Reliable Paste & Chemical Co 3560 S Shields Chicago 9 Ill  
Rutland Fire Clay Co Rutland Vt  
Savozran Co 28 India Wharf Boston 16 Mass  
Schaik Chemical Co 351 E Second Los Angeles 12 Cal  
Stonhard Co 1306 Spring Garden Philadelphia 8 Pa  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
United Gilsonite Laboratories 1396 Jefferson Av Scranton Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
Wesco Waterpaints Inc Matteson Ill  
X-Pando Corp 43-15 36th Long Island City 1 NY

## ▶ PLASTER RETARDERS

**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTERBOARD

**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
Badger Corrugating Co 1801-39 West Av S Lacrosse Wis  
Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**  
Grand Rapids Co Grand Rapids Mich  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PABCO PRODS INC 475 BRANNAN SAN FRANCISCO CAL**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

## ▶ PLASTER OF PARIS

**CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA**

Fairmont Wall Plaster Co Fairmont W Va  
Grand Rapids Plaster Co Grand Rapids 2 Mich  
**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**  
**OHIO HYDRATE & SUPPLY CO WOOD-  
VILLE OHIO**  
Tamm Industries 228 N LaSalle Chicago 1  
Ill  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

### ▶ PLASTIC LAMINATES

Aetna Plywood & Veneer Co 1731 N Elston  
Av Chicago 22 Ill  
Allied Synthetic Co 4654 De Soto San Diego  
9 Cal  
**ALSYNITE CO OF AMERICA 4654 DE SOTO  
SAN DIEGO 9 CAL**  
Arborite Co Ltd Montreal Que Can  
Barrett Div Allied Chemical & Dye Corp 2112  
Sylvan Av Toledo Ohio  
Cantile Glass Co 2100 S Peoria Chicago 8 Ill  
**CHEMOLD CO 2000 COLORADO BLVD  
SANTA MONICA CAL**  
Colotyle Tyle-Bord Inc 975 John Seattle 9  
Wash  
Consolidated Water Power & Paper Co Ahda-  
wagam Div Wisconsin Rapids Wis  
Consoweld Inc Wisconsin Rapids Wis  
Continental Can Co Conolite Dept 16th &  
Locust Wilmington Del  
Corrulus Div Libbey-Owens-Ford Glass Co 410  
Holmes Rd Box 20926 Houston 25 Tex  
Farley & Loetscher Mfg Co Dubuque Iowa  
**FORMICA CO 4515 SPRING GROVE CIN-  
CINNATI 32 OHIO**  
**GENERAL ELECTRIC CO CHEMICAL DIV 1  
PLASTIC DIV PITTSFIELD MASS**  
Kochton Plywood & Veneer Co 509 W Roose-  
velt Rd Chicago 7 Ill  
Lacton Glue Mfg Co 611 Broadway New York  
12 NY  
Lasting Prods Co Franklinton Rd Baltimore  
23 Md  
Milwaukee Plywood Co 1227 W Bruce Mil-  
waukee 5 Wis  
**MONSANTO CHEMICAL CO PLASTICS DIV  
100 MONSANTO AV SPRINGFIELD 2  
MASS**  
**NATIONAL PLASTIC PRODS CO ODENTON  
MD**  
National Plywoods Inc 2710 Throop Chicago Ill  
Ohio Rubber Co Willoughby Ohio  
Parisian Novelty Co 3510 S Western Av  
Chicago 9 Ill  
Parkwood Corp 24 Water Wakefield Mass  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Pioneer Plastics Corp 28 Goodhue Salem Mass  
Plywood Co 2707 Tulare Av Burbank Cal  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Ray-O-Lite Corp of America 696 Greenwood  
Ave NE Atlanta Ga  
**RODDIS PLYWOOD CORP MARSHFIELD  
WIS**  
**ST REGIS SALES CORP PANELYTE DIV  
230 PARK AV NEW YORK 17 NY**  
Selek (Walter E) & Co 223 W Hubbard Chi-  
cago 10 Ill  
Twin City Hardwood Lbr Co 809 N Cleveland  
Av St Paul 14 Minn  
US Mengel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 36 NY**  
**WESTINGHOUSE ELECTRIC CORP BOX  
866 PITTSBURGH 30 PA**  
Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa  
**WOODALL INDUSTRIES INC 3500 OAKTON  
AV SKOKIE ILL**  
**WRIGHT MFG CO BOX 6567 HOUSTON 5  
TEX**

### ▶ PLASTIC, WATERPROOF

Asbestos Mfg Co 131 Wabash Michigan City  
Ind  
American Fluorite Co 4011 Red Bank Rd Cin-  
cinnati 27 Ohio  
Anti-Hydro Waterproofing Co 265 Badger Av  
Newark 8 NJ  
Bakelite Co Div Union Carbide & Carbon Corp  
30 E 42nd New York 17 NY  
**BIRD & SON INC EAST WALFOLE MASS  
CHEMOLD CO 2000 COLORADO BLVD  
SANTA MONICA CAL**  
Everette Corp 424 W 42nd New York 36 NY  
**FLINTKOTE CO 39 ROCKEFELLER PLAZA  
NEW YORK 20 NY**  
Horn (A C) Co Inc 10th & 44th Av Long Is-  
land City 1 NY  
Lehon Co 4425 S Oakley Av Chicago 9 Ill  
Sonneborn (L) Sons Inc Building Prods Div  
404 Fourth Av New York 16 NY  
Superior Plastics Inc 419-430 N Oakley Blvd  
Chicago 12 Ill  
Technical Supply Co 1911 University Av Palo  
Alto Cal  
Tufere Co Inc 552 Teachout Bldg Des Moines  
9 Iowa

### ▶ PLIERS

Barcalo Mfg Co 225 Louisiana Buffalo 4 NY  
Bridgeport Hdwe Mfg Corp 461 Iranistan Av  
Bridgeport 5 Conn  
Champion-De Arment Tool Co 1306-16 Main  
Meadville 1 Pa  
Crescent Tool Co 200 Harrison Jamestown NY

Graham (John H) & Co 105 Duane New York  
8 NY  
International Twist Drill Corp 618 Wyandotte  
Kansas City 5 Mo  
Klein (Mathias) & Sons 3200 W Belmont Chi-  
cago 18 Ill  
Krauter & Co Inc 581 18th Av Newark NJ  
Owatonna Tool Co 341 Cedar Owatonna Minn  
Ox-Wall Tool Co 928 Broadway New York  
10 NY  
P & C Hand Forged Tool Co Portland 22 Ore  
Peck Stow & Wilcox Co Southampton Conn  
Penens Corp 3900 Wesley Ter Schiller Park Ill  
**RED DEVIL TOOLS 130 COIT IRVINGTON  
NJ**  
Sandvik Saw & Tool Corp 47 Warren New  
York 7 NY  
**SARGENT & CO 45 WATER NEW HAVEN  
9 CONN**  
Vlehek Tool Co 3001 E 87th Cleveland 4 Ohio  
Wilde Drop Forge & Tool Co 2942 Fairmount  
Av Kansas City 8 Mo

### ▶ PLUMB BOBS

Brown & Sharpe Mfg Co Providence RI  
Dietzgen (Eugene) Co 2425 N Sheffield Chi-  
cago Ill  
General Hdwe Mfg Co Inc 80 White New York  
13 NY  
**GOLDBLATT TOOL CO 1910 WALNUT  
KANSAS CITY 8 MO**  
Keuffel & Esser Co 300 Adams Hoboken NJ  
**LUFKIN RULE CO SAGINAW MICH**  
Millers Falls Co Greenfield Mass  
**SARGENT & CO 45 WATER ST NEW  
HAVEN 9 CONN**  
Starrett (L S) Co 101 Crescent Athol Mass  
**WARREN-KNIGHT CO 136 N 12TH PHILA  
DELPHIA 7 PA**

### ▶ PLYWOOD, DOUGLAS FIR

Aberdeen Plywood Corp Box 340 Aberdeen  
Wash  
Aetna Plywood & Veneer Co 1731 Elston Av  
Chicago 22 Ill  
Anacortes Veneer Inc 35th & "V" Av Box 71  
Anacortes Wash  
**ASSOCIATED PLYWOOD MILLS INC EU-  
GENE ORE**  
Astoria Plywood Corp Astoria Ore  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Babeock Lumber Co Frick Bldg Pittsburgh  
19 Pa  
Bellingham Plywood Co Bellingham Wash  
Blick (T C) Plywood Co Inc 249 Park Av  
Hartford 8 Conn  
British Columbia Forest Prods Ltd 995 W 6th  
Av Vancouver 9 BC Can  
Buffelen Lumber & Mfg Co Box 1595 Tacoma  
1 Wash  
Cascades Plywood Corp 1016 Public Service  
Bldg Portland 4 Ore  
Coos Bay Lbr Co Coos Bay Ore  
Crescent Plywood Co Box 325 Crescent City  
Cal  
Cruser Door Co 308 Security Bldg Box 1102  
Tacoma Wash  
**DANT & RUSSELL INC 711 EQUITABLE  
BLDG PORTLAND ORE**  
Dixie Lumber Co Inc 8201 Fig Box 257 New  
Orleans La  
Durable Plywood Co Box 114 Calpella Cal  
Elliott Bay Mill Co 600 W Spokane Seattle  
4 Wash  
Evans Prod. Co 13101 Eckles Rd Plymouth  
Mich  
Everett Plywood & Door Corp Everett Wash  
Fir Mfg Co Myrtle Creek Ore  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Harbor Plywood Corp Box 940 Aberdeen Wash  
Edward Hines Lumber Co Westfir Ore  
Humboldt Plywood Corp Box 248 Arcata Cal  
Industrial Plywood Corp 25 California San  
Francisco 11 Cal  
Kochton Plywood & Veneer Co 509 W Roose-  
velt Rd Chicago 7 Ill  
Lake Pleasant Plywood Co 9007 S 19th Tacoma  
6 Wash  
Linn Plywood Corp 10th & Hill Albany Ore  
**LONG-BELL LUMBER CO R A LONG BLDG  
925-6 GRAND AV KANSAS CITY 6 MO**  
MacMillan & Bloedel Ltd 837 Hastings Van-  
couver BC Canada  
M & M Woodworking Co 2301 N Columbia  
Blvd Portland 3 Ore  
Mar-Lin Timber Corp Winchester Ore  
Martin Bros Box Co Oakland Ore  
Mauk Seattle Lumber Co 3935 University Way  
Seattle 5 Wash  
Menasha Plywood Corp Box 87v North Bend  
Ore  
Midwest Plywood Co 10101 Lyndon Detroit 21  
Mich  
Milwaukee Plywood Co 1227 W Bruce Milwau-  
kee 5 Wis  
Mt Baker Plywood Inc 2929 Roeder Av Bel-  
lingham Wash  
Multnomah Plywood Corp 1500 SW Harbor Dr  
Portland 1 Ore  
Mutual Plywood Corp Eureka Cal  
National Plywoods Inc 2710 Throop Chicago  
Ill  
Niagara Plywoods Inc 1234 Broadway Buffalo  
NY  
North Pacific Plywood Inc 1549 Dock Tacoma  
2 Wash

Northwest Door Co Box 1477 Tacoma 1 Wash  
Oregon-Washington Plywood Co 1002 U St  
National Bank Bldg Portland 4 Ore  
Oregon Plywood Corp Sweet Home Ore  
Pacific Forest Sales Corp 1103 N Riverside  
Medford Ore  
Pacific Mutual Door Co Tacoma Bldg Tacoma  
Wash  
Pacific Veneer & Plywood Corp Box 1067 Bel-  
lingham Wash  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Peninsula Plywood Corp Port Angeles Wash  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Plywood Inc Title Bldg 15 W Front Trenton  
8 Pa  
Puget Sound Plywood Inc 230 E "F" Tacoma  
Wash  
Ranier Plywood Co 624 E 15th Tacoma Wash  
**RODDIS PLYWOOD CORP MARSHFIELD  
WIS**  
**ST PAUL & TACOMA LUMBER CO 1220 ST  
PAUL AV TACOMA WASH**  
Schreiber (Wm C) Lumber Co 2271 S Lum-  
ber Chicago 16 Ill  
Simpson Logging Co White Bldg Seattle 1  
Wash  
Southern Oregon Plywoods Inc 1100 E "J"  
Grants Pass Ore  
Springfield Plywood Corp Springfield Ore  
Timber Prods Co Box 152 Medford Ore  
Triple-L Lumber Co Inc Box 738 Lenoir NC  
Twin City Hardwood Lumber Co 509 N  
Cleveland Av St Paul 14 Minn  
US Mengel Plywoods Inc Box 1612 Louisville  
1 Ky  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**  
**VANCOUVER PLYWOOD CO 72 W BROADWAY  
VICTORIA ORE**  
Vancouver Plywood Co Box 720 Vancouver  
Wash  
Veneer Prods Co Box 152 Medford Ore  
Walton Plywood Co Everett Wash  
Washington Veneer Corp Box 347 Olympia  
Wash  
West Const Plywood Co Box 1180 Aberdeen  
Wash  
Western Door & Plywood Corp 900 SW Sec-  
ond Av Portland 4 Ore  
Western Veneer Co 75 W Broadway Eugene  
Ore  
**WEYERHAEUSER SALES CO PLYWOOD  
DEPT TACOMA BLDG TACOMA 1 WASH**  
Woodward Lumber Co 1424 Vance Bldg Seattle  
1 Wash

### ▶ PLYWOOD, EMBOSSSED

Aetna Plywood & Veneer Co 1731 Elston  
Chicago 22 Ill  
**ASSOCIATED PLYWOOD MILLS INC BOX  
672 EUGENE ORE**  
M & M Woodworking Co 2301 N Columbia  
Blvd Portland 3 Ore  
**MIDWEST PLYWOOD CO 10101 LYNDON  
DETROIT 21 MICH**  
Milwaukee Plywood Co 1227 W Bruce Milwau-  
kee 5 Wis  
National Plywoods Inc 2710 Throop Chicago  
Ill  
Paxton (Frank) Lumber Co 6311 St John Av  
Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Shadwood 15658 Delano Van Nuys Cal  
Twin City Hardwood Lbr Co 509 N Cleveland  
Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**

### ▶ PLYWOOD, EXTERIOR

Aberdeen Plywood Corp Aberdeen Wash  
Aetna Plywood & Veneer Co 1731 N Elston Av  
Chicago 22 Ill  
Anacortes Veneer Inc 35th & "V" Av Ana-  
cortes Wash  
**ASSOCIATED PLYWOOD MILLS INC EU-  
GENE ORE**  
**ATLAS PLYWOOD CORP 1432 STATLER  
BLDG BOSTON 16 MASS**  
Bellingham Plywood Corp Bellingham Wash  
Buffelen Lumber & Mfg Co Box 1595 Tacoma  
1 Wash  
Cascades Plywood Corp 1016 Public Service  
Bldg Portland 4 Ore  
Coos Bay Lumber Co Coos Bay Ore  
**DANT & RUSSELL INC 711 EQUITABLE  
BLDG PORTLAND ORE**  
Elliott Bay Mill Co 600 W Spokane Seattle 4  
Wash  
Evans Prods Co 13101 Eckles Rd Plymouth  
Mich  
Fir Mfg Co Myrtle Creek Ore  
**GEORGIA-PACIFIC PLYWOOD CO 600 N  
CAPITOL WAY OLYMPIA WASH**  
Harbor Plywood Corp Box 940 Aberdeen Wash  
Humboldt Plywood Corp Box 248 Arcata Cal  
**LONG-BELL LUMBER CO 926 GRAND KAN-  
SAS CITY 6 MO**  
M & M Woodworking Co 2301 N Columbia  
Portland 3 Ore  
MacMillan & Bloedel Ltd 837 Hastings Van-  
couver BC Canada  
Martin Bros Box Co Oakland Ore  
Mauk Seattle Lbr Co 3935 University Way  
Seattle 5 Wash  
Midwest Plywood Co 10101 Lyndon Detroit 21  
Mich  
Milwaukee Plywood Co 1227 W Bruce Milwau-  
kee 5 Wis

# AUTO-LOK Has No Equal!

No other window packs Auto-Lok's selling punch in the homes you build...can match Auto-Lok's locking mechanism...can seal as tight...look as beautiful...offer so many obvious superiorities.

And no other window is so fast and easy to install. Auto-Lok comes to the job on schedule, completely assembled...no

separate parts to lose...no costly delays...no time-wasting adjustments...minimum labor costs.

Yes, in today's many-windowed designs, Auto-Lok's ease of installation is vital in holding down costs...Auto-Lok's proved appeal to both men and women is the "clinch" in sale after sale!

## THE WINDOW WOMEN WANT MOST...



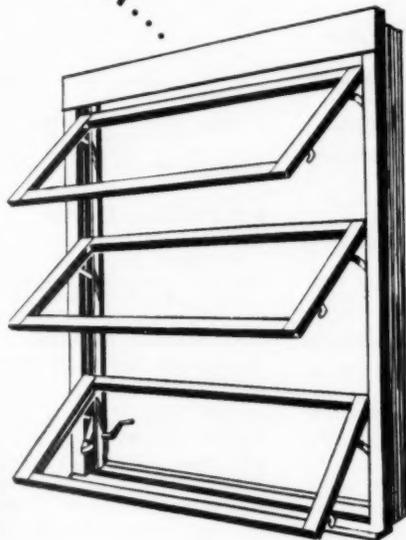
**EASIEST** window to open or close...finger-tip control from partial opening of only the lower sash Nite-Vent to the widest opening of all.

**SAFEST** window to leave open, anytime! Auto-Lok sash lock in any position...keep children in and prowlers out...protect interior walls and furnishings from rain.

**BEAUTIFUL**...streamlined...smooth finish...fine narrow sight lines...concealed hardware and inconspicuous operator.

**TIGHTEST CLOSING** window ever made. Auto-Lok seals tightest to keep out rain and cold, wind and dust, for more comfort and less work.

**EASIEST TO CLEAN.** Nothing to lift...no sash to remove...no gadgets to disengage. Quickly clean both sides from the inside—top vent, too! No exposed mechanism to collect dust.



**FREEDOM** from window work. Auto-Lok screens and storm sash—interchangeable from the inside—fit in fast, come out easy.

**NO BOTHER** with repair bills. Auto-Lok windows cannot rust, rot or corrode—never need adjustment—have no wearing parts.

**COOL COMFORT** day or night! Fresh air when its raining...full sweep of the breeze when it's hot...draft-free ventilation at all times.



**LUDMAN CORPORATION**  
North Miami, Florida

**WORLD'S LARGEST MANUFACTURERS OF AWNING WINDOWS AND JALOUSIES**

SEALS  
TIGHTER  
THAN A  
REFRIGERATOR

**COZY WARMTH** in zero weather. Auto-Lok seals shut tighter than a refrigerator. Heat stays in, cold stays out, cutting fuel costs.

...MEN LIKE BEST!



**JALOUSIES TOO!** The same world-famous Auto-Lok engineering design and quality standards are applied to Ludman Windo-Tite Jalousies incorporating *all* the features that count most with architects, builders and homeowners.

**MAIL THIS COUPON** for complete Builders' file of construction data and sizes or write for special information today!

LUDMAN CORPORATION Dept. AB-4  
North Miami, Florida  
Gentlemen: Please send complete information about Auto-Lok Windows.  
 Wood  Aluminum  Windo-Tite Jalousies  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

Factory Sales Offices: NEW YORK • CHICAGO  
WASHINGTON, D. C. • ATLANTA • ST. LOUIS  
HOUSTON • SAN FRANCISCO • MIAMI

National Plywoods Inc 2710 Throop Chicago Ill  
 Niagara Plywoods Inc 1234 Broadway Buffalo NY  
 North-Robbins Plywood Inc 400 N Boren Av Seattle 9 Wash  
 Northwest Door Co Tacoma 1 Wash  
 Oregon Plywood Corp Sweet Home Ore  
 Oregon-Washington Plywood Co Tacoma 2 Wash  
 Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo  
 Peninsula Plywood Corp Port Angeles Wash  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Puget Sound Plywood Inc 230 E "F" Tacoma 2 Wash  
 Quigley (J R) Co Gloucester City NJ  
 Ranier Plywood Co Tacoma Wash  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
**ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA 2 WASH**  
 Simpson Logging Co White Bldg Seattle 1 Wash  
 Springfield Plywood Corp Springfield Ore  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Vancouver Plywood Co Box 720 Vancouver Wash  
 Washington Veneer Corp Olympia Wash  
 West Coast Plywood Co Aberdeen Wash  
**WEYERHAEUSER SALES CO 1ST NAT'L BANK BLDG ST PAUL 1 MINN**

► **PLYWOOD, FABRIC COVERED**

Northwest Door Co Box 1477 Tacoma 1 Wash  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

► **PLYWOOD, FLAMEPROOF**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 Fox Bros 2717 Sidney St Louis 4 Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Protexol Corp 162 Market Kenilworth NJ  
 Quigley (J R) Gloucester City NJ  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

► **PLYWOOD, FLEXIBLE, HARDWOOD**

Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Plytex Corp 1731 Elston Ave Chicago 22 Ill  
 Superflex Plywood Corp 1860 Broadway New York 23 NY  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky

► **PLYWOOD, HARDBOARD SURFACED**

Aberdeen Plywood Corp Box 340 Aberdeen Wash  
 Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE**  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Cascades Plywood Corp 1016 Public Service Bldg Portland 4 Ore  
 Forest Fiber Prods Corp Box 68 AB Forest Grove Ore  
 Industrial Plywood Corp 25 California San Francisco 11 Cal  
 Masonite Corp 111 W Washington Chicago 2 Ill  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Multnomah Plywood Corp 1500 S W Harbor Drive Portland 1 Ore  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA WASH**  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**  
 Western Veneer Co 72 West Broadway Eugene Ore

► **PLYWOOD, HARDWOOD**

**ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE**  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Black (T C) Plywood Co Inc 249 Park Av Hartford Conn  
 Curtis Cos Inc American Plywood Div New London Wis

**DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE**  
 Dixie Lumber Inc 8201 Fig New Orleans La  
 Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash  
 Fuller (T C) Plywood Co Laurel Miss  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Keller Prods Inc 41 Union Manchester NH  
 Kennebec Inc Owens St Bingham Me  
 M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore  
**MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Nickey Bros Inc 2700 Summer Av Memphis Tenn  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
 Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood Inc Title Bldg 15 W Front Trenton 8 NJ  
 Quigley (J R) Co Gloucester City NJ  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
 Schnitzer Bros 3200 NW Yeon Av Portland 10 Ore  
 Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
 Superflex Plywood Corp 1860 Broadway New York 23 NY  
**THOMASON PLYWOOD CORP BOX 352 FAYETTEVILLE NC**  
 Triplet Lumber Co Inc Box 738 Lenoir NC  
 Twin City Hardwood Lbr Co St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Underwood Veneer Co Box 510 Wausau Wis  
 Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich

► **PLYWOOD, INLAID**

Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

► **PLYWOOD, MARINE**

**ASSOCIATED PLYWOOD MILLS INC EUGENE ORE**  
 Curtis Cos Inc American Plywood Div New London Wis  
 Harbor Plywood Corp Box 940 Aberdeen Wash  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Keller Prods Inc 41 Union Manchester NH  
 M & M Woodworking Co Resnprest Div 2301 N Columbia Portland 3 Ore  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
 Paxton (Frank) Lbr Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood Inc Title Bldg 15 W Front Trenton 8 NJ  
 Quigley (J R) Co Gloucester City NJ  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
 Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

► **PLYWOOD, METAL COVERED**

Keller Prods Inc 41 Union Manchester NH  
 Rigidized Metal Corp 687 Ohio Buffalo 3 NY  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

► **PLYWOOD, PINE**

**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash  
 Harbor Plywood Corp Box 940 Aberdeen Wash  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Niagara Plywoods Inc 1234 Broadway Buffalo NY

Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood Inc Title Bldg 15 W Front Trenton 8 NJ  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
 Timber Prods Co Box 152 Medford Ore  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Veneer Prods Co Box 152 Medford Ore

► **PLYWOOD, PLASTIC FACED**

Anacortes Veneer Inc 35th & "V" Av Anacortes Wash  
**ASSOCIATED PLYWOOD MILLS INC BOX 672 EUGENE ORE**  
 Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash  
 Curtis Cos Inc American Plywood Div New London Wis  
**FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO**  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Harbor Plywood Corp Box 940 Aberdeen Wash  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Kimberly-Clark Corp 128 N Commercial Neenah Wis  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Northwest Door Co Tacoma 1 Wash  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood Inc Title Bldg 15 W Front Trenton 8 NJ  
**RODDIS PLYWOOD CORP MARSHFIELD WIS**  
**ST PAUL & TACOMA LUMBER CO 1220 ST PAUL AV TACOMA 2 WASH**  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 West Coast Plywood Co Aberdeen Wash  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH PA**  
**WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL**

► **PLYWOOD, RAT REPELLENT**

**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

► **PLYWOOD, REDWOOD**

Arrow Tank Co 16 Barnett Buffalo 15 NY  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Buffelen Lumber & Mfg Co Tacoma Wash  
 M & M Woodworking Co 2301 N Columbia Portland 3 Ore  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 National Plywoods Inc 2710 Throop Chicago Ill  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**

► **PLYWOOD SEALERS**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 American Varnish Co 1140 N Branch Chicago 22 Ill  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Breinig Bros 1st & Harrison Hoboken NJ  
**CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN**  
 Dolphin Paint & Varnish Co 922 Locust Toledo 3 Ohio  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
 Monsanto Chemical Co Western Div 911 Western Av Seattle 4 Wash  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Plywood Inc Title Bldg 15 W Front Trenton 8 NJ

**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
 Standard Tech Chemicals Inc 2600 Richmond Ter Staten Island 3 NY  
 Tech Bros Inc 2600 Richmond Ter Staten Island 3 NY  
 US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

**▶ PLYWOOD STRIATED**

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
 Twin City Hardwood Lbr Co 509 N Cleveland Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**

**▶ POLISHING MACHINES**

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
 Atlas Floor Surfacing Machinery Corp 248 E 3rd New York 16 NY  
 Bignell Machine Co 516 7th Grand Rapids 4 Mich  
 Black Panther Tool Co 4051 S Iowa Milwaukee 7 Wis  
 Camp Co Inc 6958 S State Chicago 21 Ill  
 Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
**CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL**  
 Curtis Machine Corp 1300 E 2nd Jamestown NJ  
 Denver Floor & Safety Supply Co 3801 High Denver Colo  
 Finnell System Inc 500 East St Elkhart Ind  
 Florbuss-Habit Co 4181 W Montrose Chicago 41 Ill  
 General Floorcraft Inc 421 Hudson New York 14 NY  
 Hild Floor Machine Co 740 W Washington Chicago 11 Ill  
 Hilber Co St Cloud Minn  
**HOLT MFG CO 651 20TH OAKLAND 12 CAL**  
 International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
 Landers Frary & Clark Center St New Britain Conn  
 Lincoln-Schlueter Floor Machinery Co 512 S Peoria Chicago 11 Ill  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE NY**  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
 Tennant (G H) Co 2566 N Second Minneapolis Minn  
 US Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio

**▶ PORCH ENCLOSURE PANELS**

Adams Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Allied Synthetic Co 4654 De Soto San Diego 9 Cal  
**ALSYNITE CO OF AMERICA 4654 DE SOTO SAN DIEGO 9 CAL**  
**ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS**  
 Angel Novelty Co 340 Broad Fitchburg Mass  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
 Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkeley Mich  
 Gensco Tools 1830 N Kostner Av Chicago 39 Ill  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
**RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO**  
 Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn

**▶ PORCHES & CORNICES, MATERIAL FOR**

**CURTIS COS INC 1200 N SECOND CLINTON IOWA**  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio  
 Schwerd (A F) Mfg Co 3215 McClure Av Pittsburgh Pa  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
 Wheeler Osgood Co Tacoma 1 Wash

**▶ POST CAPS & BASES**

Adams Co Box 268 Dubuque Iowa  
 Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
 Braun (J G) Co 615 S Paulina Chicago 12 Ill  
 Cleveland Steel Specialty Co 3771 E 91st Cleveland 5 Ohio  
 Cole Mfg Co Memphis 2 Tenn  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Schwerd (A F) Mfg Co 3215 McClure Av Pittsburgh 12 Pa  
 Sharon Steel Co Sharon Pa

**▶ POST OR POLE PULLERS**

**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**

**▶ POSTS, ADJUSTABLE FLOOR LEVELING & SUPPORTING**

Adjusta Post Mfg Co Akron Ohio  
 Akron Prods Co Seville Ohio  
 Allen Steel Prod Inc 2941 E Ten-Mile Rd Hazel Park 27 Mich  
 Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Donley Bros 13940 Miles Av Cleveland 5 Ohio  
 Hill (R H) & Co Fort Wayne Ind  
 Holm's Mfg Co 106 Main Akron 8 Ohio  
 Holmes Mfg Co of Ohio 1340 Lake Shore Blvd Akron 1 Ohio  
 Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
**PERMA-JACK CORP 1113 E 200TH CLEVELAND 17 OHIO**  
 Sawhill Mfg Co Sharon Pa  
 Sharon Steel Co Sharon Pa  
 Templeton Kenly & Co Gardner Rd Broadview Ill  
 United Metal Prods Inc 865 S High Akron 11 Ohio  
 Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

**▶ POSTS, FENCE, STEEL & IRON**

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Anchor Post Fence Div Anchor Post Prods Inc Baltimore Md  
 Atlas Steel Co 3650 Richmond Philadelphia 34 Pa  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Braun (J G) Co 615 S Paulina Chicago 12 Ill  
 Calumet Steel Co Div Borg-Warner Corp 310 S Michigan Av Chicago Ill  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI 4 OHIO**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div U S Steel Corp  
 Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp Kokomo Ind  
 Cyclone Fence Div American Steel & Wire Co Waukegan Ill  
 Darr Prods Inc 66 E Jackson Battle Creek Mich  
 Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Mid States Steel & Wire Co Crawfordsville Ind  
 Northwestern Steel & Wire Co Sterling Ill  
 Pittsburgh Steel Prods Co 3272 Grant Bldg Pittsburgh 30 Pa  
 Republic Steel Corp Republic Bldg Cleveland 4 Ohio  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Tennessee Coal & Iron Div U S Steel Corp Box 599 Fairfield Ala  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

**▶ POSTS & POLES, CREOSOTED, SALTED TREATED**

American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill  
 Colfax Lumber & Creosoting Co Inc Box 231 Pineville La  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City Mo  
 Fordyce-Crossett Lumber Co Fordyce Ark  
 Frost Lumber Industries Drawer 1125 Shreveport 90 La  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Koppers Co Inc Koppers Bldg Pittsburgh Pa  
**LONG-BELL LUMBER CO R A LONG BLDG 924-8 GRAND AV KANSAS CITY 6 MO**  
 Miller (T R) Mill Co Brewton Ala  
 Moss (T J) Tie Co 317 N 4th St Louis Mo  
 Neils (J) Lumber Co Libby Mont

Protexol Corp 162 Market Kenilworth NJ  
 Southern Pine Lumber Co Diboll Tex  
 Southwestern Creosoting Co Box 935 Muskogee Okla

**▶ POSTS & POLES, WOOD**

Arnold-Dain Corp Box E Mahopac NY  
**CONNOR LUMBER & LAND CO 231 THOMAS WAUSAU WIS**  
**CROSSETT LUMBER CO CROSSETT ARK**  
 Fordyce-Crossett Lumber Co Fordyce Ark  
**GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH**  
 Idaho Pole Co Sandpoint Idaho  
 Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
 MacFarland (L D) Co Ltd Sandpoint Idaho  
 MacGillis & Gibbs Co 1615 E Royal Pl Milwaukee 2 Wis  
 Miller (T R) Mill Co Brewton Ala  
 Morton Mfg Co Box 3067 Memphis 9 Tenn  
 National Pole & Treating Div Minnesota & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
 Nebraska Bridge Supply & Lumber Co 40th & Leavenworth Omaha Neb  
 Republic Creosoting Co 1615 Merchant Bank Bldg Indianapolis 4 Ind  
 Sawhill Mfg Co Sharon Pa  
 Standard Mfg Co 220 E 4th Cedar Falls Iowa  
 Standard Prods Co 1429 Northwestern Bank Bldg Minneapolis 2 Minn  
 Taylor-Colquitt Co 217 E Main Spartanburg SC  
 Vandy (E A) 14105 Merchandise Mart Chicago 14 Ill  
 Willamette Valley Lumber Co Dallas Ore  
 Wood Prods Co 421 Phillips Av Toledo 12 Ohio

**▶ POTS, GLUE**

Black Bros Co Inc Mendota Ill  
**BLACK & DECKER MFG CO TOWSON 4 MD**  
 Francis (Chas E) Co 1385 Etna Av Huntingt-Ind  
 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
 Nicholson & Co 161 First Cambridge 42 Mass  
 Sta-Warm Electric Co 553 N Chestnut Ravenna Ohio  
 Swett (A L) Iron Wks 151 Glenwood Av Medina NY  
 Vulcan Electric Co 88 Holten Danvers Mass

**▶ POWER PLANTS**

**ALLIS-CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS**  
 Buda Co 15425 Commercial Av Harvey Ill  
 C & H Electric Co 436 W Juneau Av Milwaukee 3 Wis  
 Filer & Stowell Co 147 Becher Milwaukee 7 Wis  
 Griffin Wellpoint Corp 881 E 141st New York NY  
**HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY**  
 International Harvester Co 180 N Michigan Av Chicago 1 Ill  
**KOHLER CO KOHLER WIS**  
 Leitelt Iron Wks Grand Rapids 2 Mich  
 Nordberg Mfg Co 3073 S Chase Av Milwaukee 1 Wis  
**OLAN (D W) & SONS INC 2515 UNIVERSITY AV SE MINNEAPOLIS 14 MINN**  
 Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill  
 Ready-Power Co 3820 Grand River Av Detroit Mich  
 Rockaway Sales Co Route 6 Rockaway 22 NJ  
 Sterling Foundry Co Inc Sterling Ill  
 Swartwout Co 18511 Euclid Av Cleveland 12 Ohio  
 United States Motor Corp 420 Nebraska Oshkosh Wis  
 Waukesha Motor Co Waukesha Wis  
 Worthington Corp S Second Plainfield NJ

**▶ PREFABRICATED BUILDINGS, FARM**

Brooks-Skinner Co 662 Adams Quincy Mass  
 Butler Mfg Co 7400 E 13th Kansas City 26 Mo  
 Close-To-Nature Co Colfax Iowa  
 Crawford Corp 1901 N 3rd Baton Rouge 1 La  
 Economy Housing Co 6th & Chestnut Wahoo Neb  
**FORD (IVON R) INC MCDONOUGH NY**  
**GBW-WAY HOMES INC WALNUT ILL**  
 Green Lumber Co Laurel Miss  
 Hargrove Co 4th at New York Des Moines Iowa  
 Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex  
 Houston Ready-Cut House Co 3601 Polk Av Houston 1 Tex  
 International Steel Co 1321 Edgar Evansville 7 Ind  
 Johnson Co 235 S Dock Sharon Pa  
 Kozy Mfg Co Exira Iowa  
 MacQueen Service 312 Savings & Trust Bldg Butler Pa  
 Pre Fab Industries South Bend Ind  
 Prefabricated Prods Co Inc Dexter Horton Bldg Seattle 4 Wash

**RICHMOND HOMES INC NORTHWEST "L" & SHERIDAN RICHMOND IND STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**  
 Super-Structures Inc 1015 S Jefferson Albert Lea Minn  
 Texas Housing Co Inc 9001 Denton Dr Dallas 9 Texas  
**TIMBER STRUCTURES INC** Portland 8 Ore  
**TRUSCON STEEL DIV 1050 ALBERT YOUNGSTOWN 1 OHIO**  
 Unit Structures Inc Peshigo Wis  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**

► **PREFABRICATED CLOSETS**

**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
**MENDEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
 Milo Prods Co Grantham Penn  
 Touch & Musser Co Muscatine Iowa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

► **PREFABRICATED GARAGES**

Adirondack Log Cabin Co Inc 222 E 46th New York 17 NY  
 Bay-Well Inc 2301 Willow Green Bay Wis  
 Bennett Lumber Corp Oliver & NYCRR North Tonawanda NY  
 Brooks-Skinner Co 662 Adams Quincy Mass  
 Bush Prefabricated Structures Inc Huntington Sta Long Island NY  
 Crawford Corp 1901 N 3rd Baton Rouge 1 La  
 Davis-Watson Mfg Co Nashua NH  
**FORD (IVON R) INC MCDONOUGH NY**  
**GBH-WAY HOMES INC WALNUT ILL**  
 Green Lumber Co Laurel Miss  
 Johnson Co 235 S Dock Sharon Pa  
 Kozy Mfg Co Exira Iowa  
 Markee Corp of America 4030 NW 29th Miami Fla  
 Maryland Modern Housing Corp Box 7345 Halethorpe Baltimore 27 Md  
 Pre-Fab Industries 1601 Main South Bend 23 Ind  
 Prefabricators Inc Annapolis Jet Howard County Md  
 Reliance Steel Prods Co McKeesport Pa  
 Sectional Garage Wks 2342 Bailey Buffalo 11 NY  
 Southern Mill & Mfg Co Box 1087 Tulsa 1 Okla  
**STEELCRAFT MFG CO 9701 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO**  
 Super-Structures Inc 1015 S Jefferson Albert Lea Minn  
 Texas Housing Co Inc 9003 Denton Dr Dallas 9 Texas

► **PREFABRICATED HOUSES**

Adirondack Log Cabin Co Inc Bound Brook NJ  
 Admiral Homes Inc 149 Water West Newton Pa  
 Aladdin Co 212 Davidson Bldg Bay City Mich  
 American Bildrok Co 2001 W Pershing Chicago Ill  
**AMERICAN HOUSES INC 165 W 46TH NEW YORK 36 NY**  
 Bennett Lumber Corp North Tonawanda NY  
**BEST (W G) FACTORY-BUILT HOMES INC EFFINGHAM ILL**  
 Brailei Homes Inc Box 232 North Little Rock Ark  
 Brooks-Skinner Co 662 Adams Quincy Mass  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
 Bush Prefabricated Structures Inc Huntington Station Long Island NY  
 California Prefab Corp 5278 Valley Bldg Los Angeles 32 Cal  
 Charlotte Lumber & Mfg Co Charlotte 3 NC  
 City Lumber Co Inc Bridgeport Conn  
**COLPAERT HOMES INC SOUTH BEND IND**  
 Continental Homes Jackman & State Line Rd Toledo Ohio  
 Crawford Corp 1901 N Third Baton Rouge La  
 Currier Lumber Co Detroit 5 Mich  
 Dade Bros Inc Mineola NY  
 Drycember Houses Inc Baltimore 1 Md  
 Economy Housing Co Wahoo Neb  
**FORD (IVON R) INC MCDONOUGH NY**  
 Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo  
**GBH-WAY HOMES INC WALNUT ILL**  
 General Industries Inc Fort Wayne 5 Ind  
 General Panel Corp 1101 W Victory Blvd Burbank Cal  
 Green Lumber Co Laurel Miss  
**HARNISCHER CORP 4400 W NATIONAL AV MILWAUKEE 46 WIS**  
 Hodgson (E F) Co Inc Dover Mass  
**HOMASOTE CO FERNWOOD RD TRENTON 3 NJ**  
 Hoosier Homes Inc 3362 N Capitol Indianapolis Ind  
 Housemart 18320 Lanken Cleveland 19 Ohio  
 Houston Ready-Cut House Co 3601 Polk Av Houston Texas  
 Illinois Lumber Mfg Co Cairo Ill  
 Indiana Demountable Housing Inc 907 E Michigan Indianapolis 6 Ind  
 Inland Homes Corp 501 S College Piqua Ohio  
 Intermountain Houses Logan Utah

**INTERNATIONAL HOMES INC MINERAL RIDGE OHIO**  
 Jelks Century Homes Inc 610 N 31st Lawton Okla  
 Johnson Co Sharon Pa  
 Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore  
 Johnson Quality Homes Inc Pemberton NJ  
 K & M Corp Norfolk 8 Va  
 Knox Corp Thomson Ga  
 Kozy Mfg Co Exira Iowa  
 Lewis Mfg Co Lafayette & Michigan Bay City Mich  
 Lumber Fabricators Inc Fort Payne Ala  
 Manufactured Homes 330 Kalamazoo Av Marshall Mich  
 Maryland Modern Housing Corp Box 7345 Halethorpe Baltimore 27 Md  
 Midwest Houses Box 334 Mansfield Ohio  
 Midwest Housing Corp 625 E Eastern Av Jansville Wis

**MODERN HOMES CORP 7312 GREENFIELD DEARBORN MICH**  
**NATIONAL HOMES CORP LAFAYETTE IND**  
 National Ideal Co 914 Summit Toledo 4 Ohio  
 New Century Homes Inc Lafayette Ind  
 Norge Cottages 21 West New York 6 NY  
 Page & Hill Homes Shakopee Minn  
 Pease Woodwork Co Pease Homes Div 924 Forest Av Hamilton Ohio  
**PLACE HOMES INC 1212 S WALNUT SOUTH BEND IND**  
 Plainfield Lumber & Supply Co Plainfield NJ  
 Plywood Structures 2852 E 11 Los Angeles 23 Cal  
 Precision Homes Co Stockton Cal  
 Pre-Fab Industries South Bend Ind  
 Prefabricators Inc Annapolis Junction Howard County Md

**RICHMOND HOMES INC NORTHWEST "L" & SHERIDAN RICHMOND IND**  
 Riesel (L H) Lumber Co Marlette Mich  
**SCHOLZ CONSTRUCTION CO 3662 KENWOOD AV TOLEDO OHIO**  
 Scott Homes Inc Elm Grove (Wheeling) W Va  
 Scott Lumber Co Wheeling W Va  
 Shelter Industries Inc 630 Fifth Av New York 20 NY  
 Southern Mill & Mfg Co Tulsa Okla  
 Southwest American Houses Houston 1 Tex  
 Southwestern Sash & Door Co Phoenix Ariz  
 Stanway Prefabricated Building Co Montclair NJ  
 Stout Homes 701 Stephenson Bldg Detroit 2 Mich  
 Super-Structures Inc 1015 S Jefferson Albert Lea Minn  
 Texas Housing Co 9001 Denton Dr Dallas 9 Texas  
**THYER MFG CORP 2857 WAYNE TOLEDO OHIO**  
**UNITED STATES STEEL HOMES INC CHARLESTON RD NEW ALBANY IND**  
**UNITED STEEL FABRICATORS INC 333 GASCHÉ WOOSTER OHIO**  
 Unit Structures Inc Peshigo Wis  
 Universal Fabricating & Mfg Co Enid Okla  
 Virginia Lee Homes Inc Dexter Horton Bldg /Seattle Wash  
 Well Built Mfg Co Route 22 Somerville NJ  
 West Coast Mills 555 State Chehalis Wash  
**WEYERHAEUSER SALES CO ST PAUL 1 MINN**  
 Williams (Cy) Fabricators Box 256 Huntington Station NY

► **PREFABRICATED LOG CABIN PANELS**

Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 Fence Co of America Auburndale Fla  
 Prefabricators Inc Annapolis Junction Howard County Md  
 Rustic Furniture Co Inc Williamstown NJ

► **PREFABRICATED WALL PANELS**

Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Keller Prods Inc 41 Union Manchester NH  
 Mahon (R C) Co Box 4666 Detroit 34 Mich  
 Plywood Co 2707 Tulare Av Burbank Cal  
 Texas Housing Co 9001 Denton Dr Dallas 9 Tex  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

► **PRESERVATIVES, CANVAS**

American Tent & Awning Co 1132 Mission San Francisco 3 Cal  
 Astrup Co 2937 W 25th Cleveland 13 Ohio  
**CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN**  
 Dow Chemical Co 1000 Main Midland Mich  
 Ensign Prods Co 3528 E 76th Cleveland 5 Ohio  
 Fanner Mfg Co Brookside Park Cleveland 9 Ohio  
 Fulton Bag & Cotton Mills 170 Boulevard Elsas SE Atlanta 1 Ga  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Goss (J C) Co 36 E Woodbridge Detroit 26 Mich

Haynes Prods Co 4007 Farnum Omaha 3 Neb  
 Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio  
 Kuhls (H B Fred) 6413 Third Av Brooklyn NY  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 Materials & Treatment Co Inc 2326 N 3rd Milwaukee 12 Wis  
 Minnesota Mining & Mfg Co 900 Fauquier Av St Paul 6 Minn  
 Mobile Paint Mfg Co Box 1686 Mobile Ala  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
 Osmond Wood Preserving Co of America Inc 980 Ellicott Buffalo 9 NY  
 Perma Prods Co 5455 Broadway Cleveland 27 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
**PROTECTION PRODS MFG CO 2305 SUPERIOR AV KALAMAZOO 99 MICH**  
 Puritan Sales Co Atlanta Ga  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Standard Coated Prods Inc 67 W 44th New York 36 NY  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Sullivan Co Box 2606 Memphis 2 Tenn  
 Unexcelled Chemical Corp 350 Fifth Av New York 1 NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
**WEATHER-SEAL CO 10 E PEARL CINCINNATI 2 OHIO**  
 Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

► **PRESERVATIVES, FIBER BOARD**

Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn  
 Dow Chemical Co Midland Mich  
**MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO**  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO MICH**  
 Wood Treating Chemical Co 5137 Southwest Av St Louis 10 Mo

► **PRESERVATIVES, MASONRY**

American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio  
 Haynes Prods Co 4007 Farnum Omaha 3 Neb  
 Truscon Laboratories Div Devco & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tuferece Co Inc 552 Teachout Bldg Des Moines 9 Iowa

► **PRESERVATIVES, WOOD**

Abesto Mfg Corp 131 Wabash Michigan City Ind  
 Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
 American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill  
 Barr (W M) & Co Box 3518 Memphis 6 Tenn  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Breinig Bros 1st & Harrison Hoboken NJ  
**BRIDGE (E L) CO BOX 397 MEMPHIS 1 TENN**  
 Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
 Carbolineum Wood Preserving Co 528 W Highland Av Milwaukee Wis  
 C-A-Wood Preserver Co 6625 Delmar Blvd St Louis 5 Mo  
 Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn  
 Chemical Research Prods Co Inc 235 W Olney Rd Norfolk Va  
 Coopers Creek Chemical Corp West Conshohocken Pa  
 Cre-O-Tox Chemical Co Memphis 12 Tenn  
**CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN**  
 Dose Chemical Co 1000 Main Midland Mich  
 DuPont (E I) Co of Nemours & Co Inc 1007 Market Wilmington 98 Del  
 Fox Bros Mfg Co 2717 Sidney St Louis 4 Mo  
 General Paint Corp 2627 Army San Francisco 19 Cal  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Gordon Chemical Co Inc 1100 Hickory Kansas City Mo  
 Hill Termitic Control Systems 1200 Commerce Title Bldg Memphis Tenn  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
 Koppers Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
 King (E & F) & Co Inc 640 Pleasant Norwood Mass  
 Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa  
 Lowe Bros Co 436 E 3rd Dayton 2 Ohio  
 Materials & Treatment Co Inc 2326 N 3rd Milwaukee 12 Wis  
 Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis  
**MONSANTO CHEMICAL CO 1700 S 2ND ST LOUIS 4 MO**  
**MORTELL (J W) CO 550 N HOBBIE KANAKAKE ILL**  
 Nelsonite Chemical Prods Inc 900 Monroe Av NW Grand Rapids 2 Mich  
 Olympic Stained Prods Co 1118 Leary Way Seattle Wash  
 Osmond Wood Preserving Co of America Inc 980 Ellicott Buffalo 9 NY

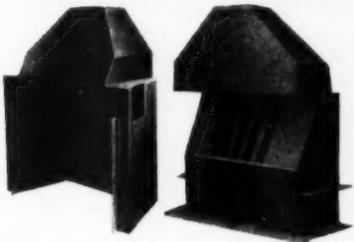


# Majestic

## Modern Home Conveniences . . . Metal Building Products

For Indoor and Outdoor  
**FIREPLACES**

### CIRCULATOR FIREPLACES



Here's smokefree, furnace-like heating efficiency for fireplaces of any type, size, or exterior treatment. Majestic's all-metal units feature warm-air outlets and cold-air intakes that circulate warm air to entire room (heat can even be piped to other rooms). Complete single unit assures correct construction, cuts installation time, reduces labor costs. Includes firebox, smoke dome, downdraft shelf, and damper with patented easy-action poker control. Bead at top and angle irons at sides seal in insulation. For old and new fireplaces. Widths 28 to 52 inches.

**HEAT-BOOSTING "RADIANT BLADES"** Majestic feature increases heat-radiating surface 45 per cent over conventional units. These metal fins (see cut-away view) also direct cool air over hottest firebox area to produce more usable room heat. Blades are permanently welded to back of firebox, in the heating chamber, and never need adjustment.

### FIREPLACE DAMPERS

Majestic Dampers prevent fireplace smoking, close almost air-tight, control draft most efficiently. Built-on flange simplifies installation, saves materials. Easy action of patented poker control is never impaired by smoke, soot, heat or rust. Rugged, breakproof formed steel construction (or cast iron). Sizes for every need.



### OUTDOOR FIREPLACE UNITS

**ALL-METAL UNITS.** These low-cost, complete assemblies assure correct proportions and construction of outdoor fireplaces of any design and masonry. Five sizes, including large, heavy-duty type for parks. All are ruggedly durable and popular priced. Typical unit above at left has two-section top, half solid with 6 1/4" stove lid, and half grill-grate with bars tapered and notched for maximum direct heat. Special model for patios or ranch-type kitchens and recreation rooms, shown above at right, is extremely popular. Grates are adjustable for wood or charcoal. Majestic also offers a variety of fireplace parts and accessories.

For Every  
**DISPOSAL Need**

### UNDERGROUND RECEIVERS



Neat, sanitary way to get rid of garbage—or cans and bottles—between collections. No freezing or fermenting. Keep dogs and flies out. Extra heavy formed steel bodies protect against breakage or rust-out. Non-binding top and foot-operated lid have non-rust pins. (Hinged foot lever folds out of way.) Body coated inside and out with rust-resistant paint. Heavily galvanized inner can has double-locked seams. 10, 15, 20 and 25-gallon sizes.

### INDOOR INCINERATORS

There's a perfect answer to every disposal need in Majestic's gas-fired, automatic gas-fired, and fuelless home incinerators. White-enameled cabinet-type model at right matches modern kitchen-laundry appliances in beauty. Utility model at left offers high efficiency at extremely low cost.



All are easily operated—daily waste accumulation is simply dropped in until unit is full; then ignited. Both wet and dry garbage and trash-burner waste are reduced to powder-fine ash. Unique downdraft design and Jet-Air Action dry contents before and during combustion. Compact, space-saving designs. Heavy sheet-steel and cast-iron construction.



### NEW OUTDOOR INCINERATOR

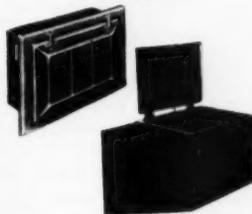
The Majestic Outdoor Incinerator safely destroys waste in any kind of weather. Consumes all burnable household trash, sticks, leaves and yard rubbish. Just light it and leave it. No danger of flying sparks or debris. Sturdy cast lid, which swings open for easy loading, is fitted with combination flue, spark-arrestor and weather shield. Sliding damper door provides handy draft control and easy access to the large ashpit. Aluminized steel casing and cast-iron top assure years of service. Base is completely enclosed for tidy use anywhere. Inner basket of heavy-gauge welded steel rods withstands high temperatures and flames, lifts out easily for removal of non-burnables. Round base, plus convenient size and weight make the burner easy to move if desired.



*Majestic Products . . . Nationally Known  
and Advertised For More Than 45 Years!*

And For Many Other  
**BUILDING NEEDS**

### COAL or SERVICE CHUTES



Majestic Chutes provide easy delivery of coal or other materials to basements, protect foundations during deliveries. These easy-to-install metal units anchor firmly in old or new structures. Popular sizes at low cost. Typical Model No. 550 (above left) is of sturdy, formed steel construction with rust-resisting finish. Heavy-duty door has reinforcing ridges. Strong hinges (which latch door open) welded to frame and door. Equipped with burglarproof automatic lock.

**GRADE LINE CHUTES** (above right) opens flush with ground or pavement. Flanged door closes watertight. Rugged and durable.

## Also Majestic

- Ash Dumps • Ashpit Doors • Basket Grates • Bell Traps • Flue Thimbles • Foundation Grates • Sewer-Tile Strainers • Stanchion Plates • Ventilating Brick • Window Wells.

**WRITE FOR CATALOG**



300 ERIE STREET  
HUNTINGTON, INDIANA

## The Majestic Co. Inc.

**PAICO PRODS INC 475 BRANNAN AV  
SAN FRANCISCO 19 CAL**  
Panther Oil & Grease Mfg Co Box 711 Ft  
Worth Tex

Parker (Ira) & Sons Oshkosh Wis  
Perma Prods Co 5455 Broadway Cleveland 27  
Ohio

Pioneer Mfg Co 2053 E 87th Cleveland 4 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**

Plytex Corp 1731 Elston Av Chicago 22 Ill  
Pratt & Lambert 75 Tonawanda Buffalo 7 NY  
**PROTECTION PRODS MFG CO 2305 SU-  
PERIOR KALAMAZOO 99 MICH**

Protexol Corp 162 Market Kenilworth 2 NJ  
Reilly Tar & Chem. Co Corp 1615 Merchants  
Bank Bldg Indianapolis 4 Ind

Republic Crossoting Co 1615 Merchant Bank  
Bldg Indianapolis 4 Ind

Rockford Paint Mfg Co N Madison at Market  
Rockford Ill

Rock Island Millwork Co 2525 Fourth Av Rock  
Island Ill

**RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY**

Sargent-Gerke Co 323 W 15th Indianapolis 6  
Ind

Sonneborn (L) Sons Inc Building Prods Div  
404 Fourth Av New York 16 NY

Speco Inc 3142 Superior Av Cleveland 9 Ohio  
Standard Industrial Prods Inc 1500 Park  
Evansville 4 Ind

Steelcote Mfg Co 3418 Grant St Louis 3 Mo  
Sullivan Co 212 E Trigg Memphis 2 Tenn

Termitol Co 3567 Bigelow Blvd Pittsburgh Pa  
Tesco Chemicals Inc Atlanta Ga

Tuferete Co Inc 552 Teacout Bldg Des Moines  
9 Iowa

**UNITED STATES PLYWOOD CORP 55 W  
44TH NEW YORK 18 NY**

Vaccinol Sales Co 2487 Penn Av Memphis 9  
Tenn

Vita-Var Corp 10 Commerce Ct Newark NJ  
Wesco Waterpaints 5th & Grayson Berkeley  
10 Cal

Wilbur & Williams Co 130 Lincoln Brighton  
35 Boston Mass

Wood Treating Chemical Co 5137 Southwest  
Av St Louis 10 Mo

**PREVENTIVES, SAP STAIN**

Breiling Bros 1st & Harrison Hoboken NJ  
Chapman Chemical Co 707 Dermon Bldg Mem-  
phis 2 Tenn

Cee-O-Tox Chemical Co Memphis 12 Tenn  
Dow Chemical Co 1000 Main Midland Mich  
DuPont (E I) de Nemours Co Inc 1007 Market  
Wilmington 98 Del

Forman-Ford Co 111 S 2nd Minneapolis 1 Minn  
**MONSANTO CHEMICAL CO 1700 S 2ND  
ST LOUIS 4 MO**

Protexol Corp 162 Market Kenilworth NJ  
Wood Treating Chemicals Co 5137 Southwest  
Av St Louis 10 Mo

Wyandotte Chemical Corp Biddle Av Wyand-  
otte Mich

**PUBLICATIONS, CONSUMER  
SHELTER**

American Home Magazine Corp 444 Madison  
Av New York 22 NY

Architectural Plan Service Inc 89-51 164th  
Jamaica 3 NY

**BETTER HOMES & GARDENS 1714 LO-  
CUST DES MOINES 3 IOWA**

Country Gentleman Independence Sq Philadel-  
phia 5 Pa

Arms Journal 230 W Washington Sq Philadel-  
phia 5 Pa

Good Housekeeping Forum 57th at 8th Av  
New York 19 NY

**HOUSE BEAUTIFUL 572 MADISON AV  
NEW YORK 22 NY**

House & Garden 420 Lexington New York 17  
NY

Living for Young Homemakers 575 Madison  
Av New York 22 NY

**PARENTS' MAGAZINE 52 VANDERBILT  
AV NEW YORK 17 NY**

**SATURDAY EVENING POST INDEPEND-  
ENCE SQ PHILADELPHIA 5 PA**

**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

**PUMPS, BOOSTER**

Aurora Pump Co 789 Dearborn Aurora Ill  
**BELL & GOSSETT CO 8200 AUSTIN MOR-  
TON GROVE ILL**

Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill

Decatur Pump Co 2750 Nelson Park Rd De-  
catur Ill

Deming Co 42 Broadway Salem Ohio  
**DUNKIRK RADIATOR CORP 85 MIDDLE  
RD DUNKIRK NY**

Gardner-Denver Co 100 Williamson Quincy Ill  
Goulds Pumps Inc 75 Fall Seneca Falls NY  
Hydro Engineering Inc 404 Washington Av N  
Minneapolis 1 Minn

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

**THRUSH (H A) CO PERU IND**  
Wayne Home Equipment Co 801 Glasgow Fort  
Wayne 4 Ind

**PUMPS, CENTRIFUGAL**

**ALLIS-CHALMERS MFG CO 1126 S 70TH  
MILWAUKEE 1 WIS**

Aurora Pump Co 789 Dearborn Aurora Ill  
Brown & Sharpe Mfg Co 235 Promenade  
Providence RI

C H & E Mfg Co 3849 N Palmer Milwaukee  
21 Wis

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill

**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**

Decatur Pump Co 2750 Nelson Park Rd De-  
catur Ill

Deming Co Salem Ohio  
Dempster Mill Mfg Co 711 S 6th Beatrice Neb  
**DUNHAM (C A) CO 400 W MADISON CHI-  
CAGO 6 ILL**

Economy Pumps Inc Div Hamilton Thomas  
Corp Waller & Zimmerman Av Hamilton  
Ohio

**FLINT & WALLING MFG CO INC KEN-  
DALLVILLE IND**

Gardner-Denver Co 100 Williamson Quincy Ill  
Goulds Pumps Inc 75 Fall Seneca Falls NY  
**HOMELITE CORP 67 RIVERDALE AV PORT  
CHESTER NY**

Ingersoll-Rand Inc 11 Broadway New York  
4 NY

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

Lancaster Pump & Mfg Co Inc Manheim Pike  
Lancaster Pa

Marlow Pumps Box 566 Ridgewood NJ  
McDonald (A Y) Mfg Co Dubuque Iowa

Myers (F E) & Bro Co 424-34 Orange Ashland  
Ohio

National Lead Co 111 Broadway New York 6  
NY

Nordberg Mfg Co 3073 S Chase Av Milwaukee  
1 Wis

Piqua Machine & Mfg Co 441 S College Piqua  
Ohio

Red Jacket Mfg Co 1051 S Rolff Davenport  
Iowa

Trane Co 3rd & Cameron LaCrosse Wis  
Wayne Home Equipment Co 1801 Glasgow Ft  
Wayne Ind

Worthington Corp S Second Plainfield NJ

**PUMPS, CONTRACTORS'**

Barnes Mfg Co 651 N Main Mansfield Ohio  
C H & E Mfg Co 3849 N Palmer Milwaukee  
21 Wis

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**

Essick Mfg Co 1950 Santa Fe Av Los Angeles  
21 Cal

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

**JAEGER MACHINE CO 500 W SPRING  
COLUMBUS 16 OHIO**

Kenco Inc 1125 N Ridge Rd Lorain Ohio  
Lancaster Pump & Mfg Co Inc Manheim Pike  
Lancaster Pa

Marlow Pumps Box 566 Ridgewood NJ  
McDonald Mfg Co 1200 Pine Dubuque Iowa

Myers (F E) & Bro Co 424-34 Orange Ashland  
Ohio

Piqua Machine & Mfg Co 441 S College Piqua  
Ohio

Rice Pump & Machine Co 400 Park Av Bel-  
gium Wis

Robbins & Myers Inc 1345 Lagonda Av Spring-  
field Ohio

Worthington Corp S Second Plainfield NJ

**PUMPS, HEAT**

Aeme Industries Inc 600 N Mechanic Jackson  
Mich

Clow (James B) & Sons 201-299 N Talman Av  
Chicago 80 Ill

General Engineering & Mfg Co 4417 Oleatha  
Av St Louis Mo

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

Roth (Roy E) Co 2484 Fourth Av Rock Is-  
land Ill

**PUMPS, JET**

Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill

Dayton Pump & Mfg Co 500 N Webster Day-  
ton 1 Ohio

Decatur Pump Co 2750 Nelson Park Rd De-  
catur Ill

**DELCO APPLIANCE DIV GENERAL MO-  
TORS CORP LYELL & WHITNEY STS  
ROCHESTER NY**

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

Lancaster Pump & Mfg Co Inc Manheim Pike  
Lancaster Pa

McDonald (A Y) Mfg Co 1200 Pine Dubuque  
Iowa

Penberthy Injector Co 1242 Holden Av Detroit  
2 Mich

Red Jacket Mfg Co 1051 S Rolff Davenport  
Iowa

Wayne Home Equipment Co Inc 801 Glasgow  
Fort Wayne 4 Ind

**PUMPS, STIRRUP**

American Line Lowell Mich  
Butler Co 325 S Broadway Butler Ind

Hudson (H D) Mfg Co 589 E Illinois Chicago  
Ill

Red Cross Mfg Co Bluffton Ind  
Red Jacket Mfg Co 1051 S Rolff Davenport  
Iowa

Smith (D B) 406 Main Utica NY  
Tennessee Stove Wks Chattanooga Tenn

Wayne Home Equipment Co Inc 801 Glasgow  
Fort Wayne 4 Ind

**PUMPS, SUCTION**

Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
Chicago Pump Co 622 Diversey Pkwy Chicago  
14 Ill

Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill

Dayton Pump & Mfg Co 500 N Webster Day-  
ton 1 Ohio

Deming Co Salem Ohio  
Everite Pump & Mfg Co Inc 617-19 N Prince  
Lancaster Pa

**FLINT & WALLING MFG CO INC 95 OAK  
KENDALLVILLE IND**

Gardner-Denver Co 100 Williamson Quincy Ill  
Lancaster Pump & Mfg Co Inc Manheim Pike  
Lancaster Pa

Wayne Home Equipment Co Inc 801 Glasgow  
Fort Wayne 4 Ind

Worthington Corp S Second Plainfield NJ

**PUMPS, SUMP**

American Well Wks 100 N Broadway Aurora  
Ill

Aurora Pump Co 789 Dearborn Aurora Ill  
C H & E Mfg Co 3849 N Palmer Milwaukee  
12 Wis

Chicago Pneumatic Tool Co 6 E 44th New  
Chicago 17 NY

Chicago Pump Co 622 Diversey Pkwy Chicago  
14 Ill

Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill

**CONSTRUCTION MACHINERY COS 420  
VINTON WATERLOO IOWA**

Dem Mfg & Sales Co 1002 S Jason Denver  
Colo

Dayton Pump & Mfg Co 500 N Webster Day-  
ton 1 Ohio

Decatur Pump Co 2750 Nelson Park Rd De-  
catur Ill

Deming Co Salem Ohio  
Dempster Mill Mfg Co 711 S 6th Beatrice Neb  
Economy Pumps Inc Div Hamilton-Thomas  
Corp Hamilton Ohio

Everite Pump & Mfg Co Inc 619 N Prince  
Lancaster Pa

Fairbanks Morse & Co 600 S Michigan Av  
Chicago 5 Ill

**FLINT & WALLING MFG CO INC 95 OAK  
KENDALLVILLE IND**

Gardner-Denver Co 100 Williamson Quincy Ill  
Goulds Pumps Inc Seneca Falls NY

**GRAINGER (W W) INC 118 S OAKLEY  
BLVD CHICAGO ILL**

Ingersoll-Rand Inc 11 Broadway New York  
4 NY

Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond  
Cal

Kenco Inc 1125 N Ridge Rd Lorain Ohio  
Lancaster Pump & Mfg Co Manheim Pike  
Lancaster Pa

**MALL TOOL CO 7740 S SOUTH CHICAGO  
AV CHICAGO 19 ILL**

McDonald (A Y) Mfg Co Box 508 Dubuque  
Iowa

**MILWAUKEE FLUSH VALVE CO 301 E  
RESERVOIR MILWAUKEE 12 WIS**

Myc (F E) Bro Co 424-34 Orange Ashland  
Ohio

Penberthy Injector Co 1242 Holden Av Detroit  
2 Mich

Piqua Machine & Mfg Co 441 S College Piqua  
Ohio

**PRECISION PARTS CORP 400 N 1ST NASH-  
VILLE 7 TENN**

## ► PUMPS, WINDMILL

Aermotor Co 2500 Roosevelt Rd Chicago 8 Ill  
Baker Mfg Co 133 Enterprise Evansville Wis  
Butler Co 325 S Broadway Butler Ind  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
Columbiana Pump Co E Railroad St Colum-  
biana Ohio  
Deming Co Salem Ohio  
Deminger Mill Mfg Co 711 S 6th Beatrice Neb  
Fairbanks Morse & Co 600 S Michigan Av  
Chicago 5 Ill  
**FLINT & WALLING MFG CO INC 95 OAK  
KENDALLVILLE IND**  
McDonald (A Y) Mfg Co Box 508 Dubuque  
Iowa  
Myers (F E) & Bro Co 424-34 Orange Ashland  
Ohio  
Red Jacket Mfg Co 1051 S Rolff Davenport  
Iowa

## ► PUNCHES, CENTER

Baltimore Tool Wks 1110 Race Baltimore 30  
Md  
Billings & Spencer Co 12 Laurel Hartford 1  
Conn  
Bridgport Hdw Mfg Corp 461 Iranistan Av  
Bridgport Conn  
Cincinnati Tool Co 1946 Waverly Av Cin-  
cinnati 12 Ohio  
Cleveland Steel Tool Co 660 E 82nd Cleveland  
8 Ohio  
Crescent Tool Co 200 Harrison Jamestown NY  
Damascus Steel Prods Corp 2199 W Kishwau-  
kee Rockford Ill  
Duro Metal Prods Co 2649 N Kildare Av Chi-  
cago 39 Ill  
Fairmount Tool & Forging Co 10611 Quincy  
Av Cleveland 6 Ohio  
Heller Bros Co Heller Dr Newcomerstown Ohio  
Krauter & Co Inc 381 18th Av Newark NJ  
Mayhew Steel Prods Inc Sears St Extension  
Shelburne Falls Mass  
Mephisto Tool Co Box 16 Hudson NY  
Millers Falls Co Wells & Devon Sts Greenfield  
Mass  
Original Enderes Co Guttenburg Iowa  
Owatonna Tool Co 341 Cedar Owatonna Minn  
P & C Hand Forged Tool Co Portland 22 Ore  
Penens Corp 3900 Wesley Ter Schiller Park Ill  
Proto Tool Co 2209 Santa Fe Av Los Angeles  
54 Cal  
Rainey-Tools Grove City Pa  
**STANLEY WKS 111 ELM AV NEW  
BRITAIN CONN**  
Strrett (L S) Co 101 Crescent Athol Mass  
Tuck Mfg Co 74 Ames Brockton 39 Mass  
Union Tool Co 48 E River Orange Mass  
United Wire Goods Mfg Co 1150 Broadway  
New York NY  
Vaughn & Bushnell Mfg Co 135 S LaSalle  
Chicago 3 Ill  
Viechek Tool Co 3001 E 87th Cleveland 4 Ohio  
Wilke Drop Forge & Tool Co 2942 Fairmount  
Av Kansas City 8 Mo

## ► PUTTY, LEAD

Biddle Co 608-624 S Main St Louis 2 Mo  
Cook Paint & Varnish Co 1412 Knox North  
Kansas City Mo  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
Hooker Glass & Paint Mfg Co 659 W Washing-  
ton Chicago 6 Ill  
Kuhls (H B Fred) 6411-23 Third Av Brooklyn  
NY  
Landen Putty Wks 45 Irving Malden Mass  
Liebich (G L) Co 931 N Ogden Chicago 22 Ill  
Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
National Lead Co 111 Broadway New York  
6 NY  
**PECORA PAINT CO INC 4TH ST & RDG RR  
PHILADELPHIA 40 PA**  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
**STERLING PAINT & VARNISH CO 184  
COMMERCIAL MALDEN 48 MASS**  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill

## ► PUTTY, METAL SASH

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Armstrong Co 1001 E 103rd Chicago 28 Ill  
Biddle Co 608-624 S Main St Louis 2 Mo  
Blue Ridge Tale Co Inc Henry Va  
Briggs-Maroney Co Inc 85 Paris Everett 49  
Mass  
Con-Cor Co 4550 Main Kansas City Mo  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
Dicks-Pontius Co 5300 Huberville Rd Dayton  
Ohio  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
Felton Sibley & Co 136 N 4th Philadelphia  
6 Pa  
Fort Pitt Chemical Co 26th & Smallman Pitts-  
burgh 22 Pa  
Hooker Glass & Paint Mfg Co 659 W Wash-  
ington Chicago 6 Ill  
King (E & F) & Co Inc 640 Pleasant Norwood  
Mass

APRIL 1954

Landen Putty Wks 45 Irving Malden 48 Mass  
Liebich (G L) Co 931 N Ogden Av Chicago  
22 Ill  
**MACKLANBURG-DUNCAN CO 4041 N  
SANTA FE OKLAHOMA CITY 1 OKLA**

## ► Nu-GLAZE Glazing Compound

See Pages 14-17

SOLD BY

HARDWARE & LUMBER DEALERS



**MACKLANBURG-DUNCAN CO.  
OKLAHOMA CITY, OKLA.**

Mar-Kay Mfg Co 2715 S 2nd St Louis Mo  
McGuffie (W W) & Co 3400 Theurer Ct Cleve-  
land 9 Ohio  
Parker (Ira) & Sons Inc Oshkosh Wis  
**PECORA PAINT CO INC 4TH & RDG RR  
PHILADELPHIA 40 PA**  
Plastic Prods Co 6473 Georgia Av Detroit 11  
Mich  
Smooth-On Mfg Co 572 Communipaw Av  
Jersey City 4 NJ  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
**STERLING PAINT & VARNISH CO 184  
COMMERCIAL MALDEN 48 MASS**

## ► PUTTY, OIL

Armstrong Co 1001 E 103rd Chicago 28 Ill  
Biddle Co 608-624 S Main St Louis 2 Mo  
Blue Ridge Tale Co Inc Henry Va  
Boyle-Midway Inc 22 E 40th New York 16 NY  
Briggs-Maroney Co 85 Paris Everett 49 Mass  
Con-Cor Co 4550 Main Kansas City Mo  
Devoe & Reynolds Co Inc 787 First Av New  
York 17 NY  
Dicks-Pontius Co 123 Wayne Dayton Ohio  
DuPont (E I) de Nemours & Co 1007 Market  
Wilmington 98 Del  
Ever-Plastics Corp 420 Lexington Av New  
York 17 NY  
Farwell Ozmun Kirk & Co 108 Fairfield Av W  
St Paul 1 Minn  
Felton Sibley & Co 136 N 4th Philadelphia  
6 Pa  
Fort Pitt Chemical Co 26th & Smallman Pitts-  
burgh 22 Pa  
Fuller (W P) & Co 301 Mission San Francisco  
19 Cal  
Glidden Co Berea Rd & Madison St Cleveland  
2 Ohio  
Goodrich (B F) Co 500 S Main Akron 18 Ohio  
Hooker Glass & Paint Mfg Co 659 W Washing-  
ton Chicago 6 Ill  
Horn (A C) Co 10th & 44th Av Long Island  
City 1 NY  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
King (E & F) & Co Inc 640 Pleasant Norwood  
Mass  
Kuhls (H B Fred) 6411-6423 3rd Av Brooklyn  
NY  
Landen Putty Wks 45 Irving Malden 48 Mass  
Las-Stik Mfg Co "B" & Wayne Sts Hamilton  
Ohio  
Lasting Prods Co Franklinton Rd Baltimore  
23 Md  
Lichten Co Inc 1210 N Hoyne Chicago 22 Ill  
Liebich (G L) Co 931 N Ogden Chicago 22 Ill  
**MACKLANBURG-DUNCAN CO 4041 N  
SANTA FE OKLAHOMA CITY 1 OKLA**  
Mar-Kay Mfg Co 2715 S Second St Louis Mo  
National Lead Co 111 Broadway New York  
6 NY  
**PABCO PRODS INC 475 BRANNAN SAN  
FRANCISCO CAL**  
Parker (Ira) & Sons Inc Oshkosh Wis  
**PECORA PAINT CO INC 4TH & RDG RR  
PHILADELPHIA 40 PA**  
**PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA**  
Plastic Prods Co 6473 Georgia Av Detroit 11  
Mich  
Schalk Chemical Co 351 E Second Los Angeles  
12 Cal  
Seal Rite Caulking Co 6335 Lyndon Detroit  
Mich  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
**STERLING PAINT & VARNISH CO 184  
COMMERCIAL MALDEN 48 MASS**  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
Tremco Mfg Co 8701 Kinsman Rd Cleveland  
Ohio  
Truseon Laboratories Div Devoe & Reynolds  
Co Inc Caniff at Grand Trunk Ry Detroit  
11 Mich  
Webb Prods Co 216 S "G" San Bernardino Cal  
Wetherill (George D) & Co 113 Arch Philadel-  
phia Pa

► **PUTTY, PLASTICIZED, WOOD**  
Boyle-Midway Inc 22 E 40th New York 16 NY  
Breinig Bros Inc 223 Adams Hoboken NJ  
DuPont (E I) de Nemours & Co 1007 Market  
Wilmington 98 Del  
Lacton Glue Mfg Co 611 Broadway New York  
12 NY

Mobile Paint Mfg Co Box 1686 Mobile Ala  
National Casein Sales 601 W 80th Chicago  
20 Ill  
Schalk Chemical Co 351 E 2nd Los Angeles  
12 Cal  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
Technical Supply Co 1911 University Av Palo  
Alto Cal  
United Gilsonite Laboratories 1396 Jefferson  
Av Scranton 1 Pa  
Webb Prods Co 216 S "G" San Bernardino Cal  
Wellman Prods Co 1444 E 49th Cleveland 3  
Ohio

## ► PUTTY REMOVERS, ELECTRIC

Fletcher-Terry Co 437 South St Forestville  
Conn  
Sommer & Maca Glass Machinery Co 3600-08 S  
Oakley Av Chicago 9 Ill

## ► PUTTY, ROOF

Abesto Mfg Corp 131 Wabash Michigan City  
Ind  
Biddle Co 608-624 S Main St Louis 2 Mo  
Blue Ridge Tale Co Inc Henry Va  
Ford Roofing Prods Co 188 W Randolph Chi-  
cago 11 Ill  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Seal Rite Caulking Co 6335 Lyndon Detroit  
Mich  
Smooth-On Mfg Co 572 Communipaw Av  
Jersey City 4 NJ  
Stonhard Co 1306 Spring Garden Philadel-  
phia 3 Pa

## ► PUTTY, WATER

Boyle-Midway Inc 22 E 40th New York 16 NY  
Carbala Chemical Co 46 Harris Rd Natural  
Bridge NY  
Durham (Donald) Co Box 804 Des Moines 4  
Iowa  
Fort Pitt Chemical Co 26th & Smallman Pitts-  
burgh 22 Pa  
Fuller (H B) Co 181 W Kellogg Blvd St Paul  
2 Minn  
Lichten Co Inc 1210 N Hoyne Chicago 22 Ill  
Reardon Co 7501 Page Av St Louis 14 Mo  
Savogran Co 28 India Wharf Boston 16 Mass  
Schalk Chemical Co 351 E Second Los Angeles  
12 Cal  
Sheffield Bronze Paint Corp 17814 Waterloo  
Rd Cleveland 19 Ohio  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

## ► RACEWAYS, WIRE CARRYING

Columbia Metal Box Co 260 E 143rd New  
York 51 NY  
Kees (E D) Mfg Co 700 Park Av Beatrice Neb  
Republic Steel Corp Republic Bldg Cleveland  
4 Ohio

## ► RADIATORS

**AMERICAN RADIATOR & STANDARD  
SANITARY CORP BESSEMER BLDG  
PITTSBURGH 30 PA**  
**BURNHAM CORP BOILER DIV 2 MAIN  
IRVINGTON NY**  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
**DUNKIRK RADIATOR CORP 85 MIDDLE  
RD DUNKIRK NY**  
Ejay Mfg Co 124 Boyd Winsted Conn  
Murray (D J) Mfg Co 1024 Third Wausau Wis  
National Radiator Co 223 Central Av Johns-  
town Pa  
Radiant Baseboard Panel Inc 900 W Main  
New Britain Conn  
Sierra Electric & Mfg Co 544 E 31st Los An-  
geles Cal  
Smith (H B) Co Westfield Mass  
**UNITED STATES RADIATOR CORP BUHL  
BLDG DETROIT 31 MICH**  
Utica Radiator Corp 2201 Dwyer Av Utica NY  
**VULCAN RADIATOR CO BOX L STA A  
HARTFORD CONN**  
Waterferry Boilers Inc 36-40 New York Av  
Jersey City NJ  
Weil-McLain Co 641 W Lake Chicago Ill

## ► RADIATORS, CONVECTOR

**BUSH MFG CO 179 SOUTH WEST HART-  
FORD 10 CONN**  
Clow (James B) & Sons 201-99 N Talman Av  
Chicago 80 Ill  
**DUNHAM (C A) CO 400 W MADISON CHI-  
CAGO 6 ILL**  
**DUNKIRK RADIATOR CORP 85 MIDDLE  
RD DUNKIRK NY**  
Fedders-Quign Co Lator & Hancock Tren-  
ton NJ  
Knapp-Monarch Co 3501 Bent Av St Louis Mo  
National Radiator Co 223 Central Av Johns-  
town Pa  
Nesbitt (John J) Inc Tacony & Rhawn Phila-  
delphia 36 Pa

435

Rittling Corp Rand Bldg Buffalo 3 NY  
Rome-Turney Radiator Co Canal St Rome NY  
Young Radiator Co 709 S Marquette Racine Wis

### ▶ RADIATORS, PORTABLE

Aeme Electric Heating Co 1217 Washington Boston 18 Mass  
**BURNHAM CORP BOILER DIV 2 MAIN IRVINGHAM NY**  
Electric Steam Radiator Corp 1 Electric Av Paris Ky  
Sentry Metal Prods Div Sentry Control Corp Philadelphia 21 Pa

### ▶ RADIOS, FLUSH WALL

Bendix Radio Div Bendix Aviation Corp Baltimore 4 Md  
**FLUSH WALL RADIO CO 1012 CLEVELAND CLEARWATER FLA**

### ▶ RAFTERS, LAMINATED

**AMERICAN ROOF TRUSS CO 1030 E 87TH CHICAGO 49 ILL**  
**INLAND STEEL PRODS CO 4111 W BURNHAM MILWAUKEE 1 WIS**  
Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore  
Knapp Bros Mfg Co 16 E 72nd Cincinnati 36 Ohio  
Laminators Inc 625 E Eastern Av Janesville Wis  
McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill  
**RILCO LAMINATED PRODS INC 2591 1ST NATL BANK BLDG ST PAUL 1 MINN**  
Super-Structures Inc 1015 S Jefferson Albert Lea Minn  
Tacoma Lumber Fabricating Co Tacoma 1 Wash  
Timber Structures Inc Box 3782 Portland 8 Ore  
Unit Structures Inc Peshtigo Wis  
**WEYERHAEUSER SALES CO FIRST NATL BANK BLDG ST PAUL 1 MINN**  
Wollmayer Steel Corp 61 Broadway New York 6 NY  
Zink (Frank J) 141 W Jackson Chicago 4 Ill

### ▶ RAILINGS, METAL

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Anex Brass & Bronze Wks 116 Walker New York 13 NY  
Armedo Drainage & Metal Prods Inc 1939 Armeo Av Middletown Ohio  
**ARTCRAFT ORNAMENTAL IRON CO 724 E HUDSON COLUMBUS 2 OHIO**  
Badger Wire & Iron Wks Inc 2929 W Cleveland Av Milwaukee 7 Wis  
Bellkool Co 623 S State Appleton Wis  
Bolson Mfg Co E River Rd N Aurora Ill  
Blum (Julius) Co Inc 532 W 22nd New York 11 NY  
**CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN**  
**CINCINNATI IRON FENCE CO INC 2101 FLORENCE AV CINCINNATI OHIO**  
**COFFMAN (R G) CO 2809 N ORANGE ORLANDO FLA**  
Columbus Brass Co 620 Dublin Columbus 16 Ohio  
Davis & Siehl Co 4032 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
Decatur Iron & Steel Co 2nd St Decatur Ala Des Moines Ornamental Iron Co 400-404 S E Jackson Av Des Moines 15 Iowa  
Fawcett Mfg Div Falls Stamping & Welding Co 1703 Front Cayahoga Falls Ohio  
Fiske (J W) Iron Wks 80 Park Pl New York NY  
Grand Rapids Wire Prods Co 501 Front Av Grand Rapids 4 Mich  
Hawkins Iron Co Inc Box 670 Birmingham Ala Hutchinson Co Box 11 Cedar Grove Sta Shreveport La  
International Steel Co 1321 Edgar Evansville 7 Ind  
Kentucky Metal Prods Co Preston & Audubon Pk Louisville 4 Ky  
Locke Mfg Co Ohio St Lodi Ohio  
Logan Co 201 Cabell Louisville 6 Ky  
Martin-Farry Corp 1455 W Alexis Rd Box 964 Toledo Ohio  
**MESKEE (GEORGE L) STEEL CORP 400 N W FIRST EVANSVILLE 6 IND**  
Metal Crafters E Avenue & 18th N E Cedar Rapids Iowa  
Meyers (Fred L) Mfg Co 1176 Hooven Av Hamilton Ohio  
National Ventilated Awning Co 605 Hall Dallas 1 Tex  
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio  
Tage Steel & Wire Div American Chain & Cable Co Inc Monessen Pa  
Parker (S) Hdwe Mfg Co 27 Ludlow New York 2 NY  
**SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY**

Smith (F P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill  
Southern Wire & Iron Wks 441 Memorial Dr S E Atlanta Ga  
Standard Bronze Co 179 W 5th Bayonne 20 NJ  
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio  
Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
Valley Metal Prods Marseilles Ill  
Wiemann (Ernest) Iron Wks 2035 E 11th Tulsa 4 Okla

### ▶ RAILINGS, WOOD

Angel Novelty Co 340 Broad Fitchburg Mass  
Cole Mfg Co Box 2657 Memphis 2 Tenn  
**CROSSETT LUMBER CO CROSSETT ARK**  
**CURTIS COS INC 1200 S 2ND AV CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Fordyce-Crossett Lumber Co Fordyce Ark  
Front Lumber Industries Drawer 1125 Shreveport 90 La  
Hyde-Murphy Co Murphy Bldg Ridgway Pa  
Keystone Frame & Mfg Co Box 873 Spokane Wash  
Kinzua Pine Mills Co Kinzua Ore  
**LONG-BELL LUMBER CO R A LONG BLDG 926 GRAND AV KANSAS CITY 6 MO**  
Marquart Millwork Co 50 Cape Oshkosh Wis  
Morgan Co 520 Oregon Oshkosh Wis  
Rock Island Millwork Co Rock Island Ill  
Sezelke & Kuhlhaus Co 600 S 2nd LaCrosse Wis  
Willamette Valley Lumber Co Portland Ore

### ▶ RANGES, ELECTRIC, BUILT-IN

Thermador Electrical Mfg Co 5122 District Blvd Los Angeles Cal  
**THOR CORP 2115 S 34TH AV CICERO 50 ILL**

### ▶ RANGES, ELECTRIC

A B Stove Co Merrill Park Battle Creek Mich  
Admiral Corp 3800 Cortland Chicago Ill  
American & Southern Corp 1000 6th South Nashville 10 Tenn  
Cooler Corp Box 399 Duluth Minn  
**CROSLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO**  
Crown Stove Wks 4627-35 W 12th Pl Chicago 50 Ill  
Dearborn Stove Co 1700 W Commerce Dallas Tex  
Deepfreeze Appliance Div Motor Prods Corp 2301 Davis North Chicago Ill  
Detroit Michigan Stove Co 6900 E Jefferson Detroit 7 Mich  
Detroit Vapor Stove Div Borg-Warner Corp Detroit Mich  
Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
Florence Stove Co School St Gardner Mass  
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL**  
**GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY**  
Gibson Electric Refrigerator Corp 515-615 W Williams Greenville Mich  
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn  
**HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL**  
Kalamazoo Stove & Furnace Co 56 Rochester Av Kalamazoo Mich  
**KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH**  
Kennedy Co 1629 Dime Bldg Detroit 26 Mich  
Lindemann (A J) & Heverson Co 691 W Cleveland Av Milwaukee 15 Wis  
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo  
Majestic Mfg Co 4550 Gustine St Louis Mo  
Monarch Malleable Iron Range Co Beaver Dam Wis  
Mortag Stove & Furnace Wks 2011 N Columbia Blvd Portland Ore  
Murray Corp of America 1900 S Washington Seranton 2 Pa  
Norge Div Borg-Warner Corp Appliance Div Rm 234 Merchandize Mart Plaza Chicago Ill  
Olin Stove Mfg Co 342 W 12th Erie Pa  
Perfection Stove Co 7609 Platt Av Cleveland Ohio  
Philo Corp Tigra & "C" Philadelphia 34 Pa  
Preway Inc 1430 Second N Wisconsin Rapids Wis  
RCA Estate Appliance Corp Radio Corp of America Subsid Hamilton Ohio  
Roberts & Mander Corp 237 Jacksonville Rd Hattboro Pa  
Roper (George D) Corp Blackhawk Av Rockford Ill  
Sexton (S B) Stove & Mfg Co 502 W Conway Baltimore Md  
Sunray Stove Co Grand Div 2323 E 67th Cleveland 4 Ohio  
Tappan Stove Co 250 Wayne Mansfield Ohio  
Utility Appliance Corp 4851 S Alameda Los Angeles 11 Cal  
Washington Stove Wks Box 919 Everett Wash  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WELBILT STOVE CO INC 57-18 FLUSHING AV MASPETH LI 78 NY**  
Western Holly Appliance Co 8536 Hays Culver City Cal  
Western Stove Co Inc 8536 Hayes Culver City Cal

**WELBILT STOVE CO INC 57-18 FLUSHING AV MASPETH LI 78 NY**  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO**  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**

### ▶ RANGES, GAS

A B Stove Co Merrill Park Battle Creek Mich  
American & Southern Corp 1000 6th South Nashville 10 Tenn  
Athens Stove Wks Inc Hicks St Athens Tenn  
Brown Stove Wks Inc Cleveland Tenn  
Caloric Stove Corp Topton Pa  
Chambers 2464 N Meridian Indianapolis Ind  
Cribben & Sexton Co 700 N Sacramento Blvd Chicago 12 Ill  
Crown Stove Wks 4627-35 12th Pl Chicago 50 Ill  
Dearborn Stove Co 1700 W Commerce Dallas Tex  
Detroit Michigan Stove Co 6900 E Jefferson Detroit 7 Mich  
Detroit Vapor Stove Div Borg-Warner Corp Detroit Mich  
Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
Florence Stove Co School St Gardner Mass  
Gem City Stove Mfg Co Quincy Ill  
Glenwood Range Co 300 W Water Taunton Mass  
**GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL**  
Globe American Corp Kokomo Ind  
Gray & Dudley Co 2300 Clifton Rd Nashville Tenn  
Hardwick Stove Co Cleveland Tenn  
Karr Range Co 7th & Harrison Belleville Ill  
Magic Chef Inc 1641 S Kingshighway St Louis 10 Mo  
Majestic Mfg Co 4550 Gustine Av St Louis 16 Mo  
Maytag Co Newton Iowa  
Monarch Malleable Iron Range Co Beaver Dam Wis  
Mt Vernon Furnace & Mfg Co Mt Vernon Ill  
Murray Corp of America 1900 S Washington Seranton 2 Pa  
Norge Div Borg-Warner Corp Appliance Div 670 E Woodbridge Av Detroit 26 Mich  
Olin Stove Mfg Co 342 W 12th Erie Pa  
O'Keefe & Merritt Co 3700 E Olympic Blvd Los Angeles Cal  
Paragon Utilities Corp 50 Van Dam Brooklyn NY  
Perfection Stove Co 7609 Platt Av Cleveland Ohio  
Preway Inc 1430 Second N Wisconsin Rapids Wis  
RCA Estate Appliance Corp Radio Corp of America Subsid Hamilton Ohio  
Renown Stove Co 1000 W Exchange Owosso Mich  
Roberts & Mander Corp 237 Jacksonville Rd Hattboro Pa  
Roper (George D) Corp Blackhawk Av Rockford Ill  
Sexton (S B) Stove & Mfg Co 502 W Conway Baltimore Md  
Sunray Stove Co Grand Div 2323 E 67th Cleveland 4 Ohio  
Tappan Stove Co 250 Wayne Mansfield Ohio  
Utility Appliance Corp 4851 S Alameda Los Angeles 11 Cal  
Washington Stove Wks Box 919 Everett Wash  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
**WELBILT STOVE CO INC 57-18 FLUSHING AV MASPETH LI 78 NY**  
Western Holly Appliance Co 8536 Hays Culver City Cal  
Western Stove Co Inc 8536 Hayes Culver City Cal

### ▶ RANGES, GAS & ELECTRIC REFRIGERATOR COMBINATION

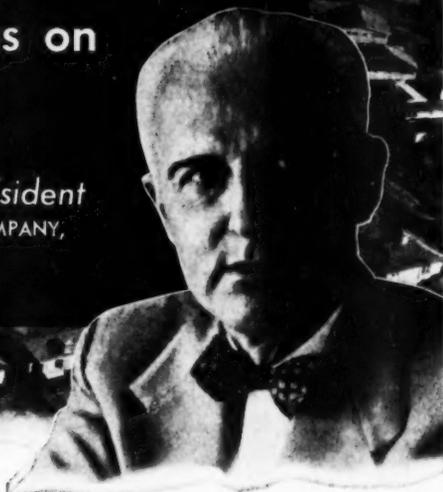
Aeme-National Refrigeration Co 29-24 40th Av Long Island City NY  
**GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL**  
Glenwood Range Co 300 W Water Taunton Mass

### ▶ RECEIVERS, GARBAGE

Adams Co Box 268 Dubuque Iowa  
Air Control Prods Inc Glade at Larch Coopersville Mich  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Beh & Co Inc 1150 Broadway New York NY  
Donley Bros Co 13940 Miles Av Cleveland 5 Ohio  
Guder, Paeschke & Frey Co 1439 W St Paul Av Milwaukee Wis  
Harris Inc 290 E Long Columbus Ohio  
Kraus (Walter S) Co 48-02 43rd Woodside LI NY  
Lawson (F H) Co 803 Evans Cincinnati 4 Ohio  
**LEIGH BUILDING PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH**  
**MAJESTIC CO HALL ST HUNTINGTON IND**

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 ...substantial savings on  
 installation costs."

says Harold L. Shaw, president  
 SHAW CONSTRUCTION COMPANY,  
 LOS ANGELES, CALIFORNIA



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- **No painting**—Columbia-matics are rustproof all-aluminum.
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**Save money—**

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Name \_\_\_\_\_  
 Company Name \_\_\_\_\_  
 Street \_\_\_\_\_  
 City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

Master Metal Prods Inc 291 Chicago Buffalo 4 NY  
National Enameling & Stamping Co 270 N 12th Milwaukee Wis  
Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio  
Witt Cornice Co 2118 Winchell Av Cincinnati 14 Ohio

### ▶ RECEIVERS, PACKAGE

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Donley Bros Co 13940 Miles Av Cleveland 5 Ohio  
Excel Metal Cabinet Co Inc Jamestown NY  
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich  
Harris Inc 200 E Long Columbus Ohio  
Ideal Cabinet Corp 5131 Dempster Skokie Ill  
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH

### ▶ REELS, GARDEN HOSE

Craco Corp 1703 Alamo Dr Glendale 7 Cal  
Lawn Hose Holder Co Box 598 Loring Sta Minneapolis Minn  
Zierden Mfg Co 3815 S Kinnickinnic Av Milwaukee 7 Wis

### ▶ REFRIGERATORS, ELECTRIC

Admiral Corp 3800 Cortland Chicago Ill  
Amana Society Amana Iowa  
Coolerator Corp Box 399 Duluth 1 Minn  
Copeland Refrigerators Sidney Ohio  
CROSLLEY DIV AVCO MFG CO 1329 ARLINGTON CINCINNATI OHIO  
Despfreeze Div Motor Prods Corp North Chicago Ill  
Dexter Co Fairfield Iowa  
Friedrich (Ed) Inc 1115 E Commerce San Antonio Tex  
Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL  
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN  
GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY  
General Implement Corp Terminal Tower Cleveland 13 Ohio  
General Refrigerator Corp 678 Broadway New York 12 NY  
Gibson Electric Refrigerator Corp 515-615 W Williams Greenville Mich  
Giffilan Bros Inc Venice Blvd & Berendo Los Angeles Cal  
Herbst (L B) Corp 325 N Wells Chicago 10 Ill  
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL  
International Harvester Co 180 N Michigan Av Chicago 1 Ill  
Jewett Refrigerator Co 2 Letchworth Buffalo 15 NY  
Jordan Refrigerator Co 58th & Grays Av Philadelphia 43 Pa  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
King Refrigerator Corp 76-02 Woodhaven Blvd Glendale LI NY  
Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis  
Matot (D A) Inc 1539 W Altgeld Chicago Ill  
Norge Div Borg-Warner Corp Appliance Div 670 Woodbridge Av Detroit 26 Mich  
Potter Refrigerator Corp Buffalo NY  
Quiefrez Inc Fond du Lac Wis  
Seeger Refrigerator Co Arcade at Wells St Paul Minn  
SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND  
THOR CORP 2115 S 54TH AV CICERO 50 ILL  
Universal Major Electric Appliance Co Box 119 Lima Ohio  
Ward Refrigerator & Mfg Co 6501 S Alameda Los Angeles Cal  
WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 EAST 4TH MANSFIELD OHIO

### ▶ REFRIGERATORS, GAS

SERVEL INC 119 N MORTON AV EVANSVILLE 20 IND

### ▶ REGISTERS, HEATING & VENTILATING

Auer Register Co 660 Clement Av Cleveland 5 Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

BENNETT-IRELAND INC 23 STATE NORTH-WICH NY  
Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
Char-Gale Mfg Co 4325 Hiawatha Minneapolis Minn  
Dole Valve Co 1923 Carroll Av Chicago 12 Ill  
Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
Front Rank Mfg Co Div Liberty Foundry Co 2500 Ohio Av St Louis 4 Mo  
GERWIN INDUSTRIES THERMO-BASE DIV 214 SPRING MICHIGAN CITY IND  
Hart & Cooley Mfg Co 500 E 8th Holland Mich  
HEATLATOR INC 661 E BRIGHTON SYRACUSE 5 NY  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
International Oil Burner Co 3800 Park Av St Louis 10 Mo  
Krauser-Boyd Inc 553 River Rd North Tonawanda NY  
LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH  
Lima Register Co Lima Ohio  
MAJESTIC CO HALL ST HUNTINGTON IND  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Philadelphia Hdwe & Malleable Iron Wks N State Rd & Emig Philadelphia Pa  
Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill  
Titus Inc Box 810 Waterloo Iowa  
Tuttle & Bailey Inc 1706 Corbin Av New Britain Conn  
United States Register Co 344 E Burnham Battle Creek Mich

### ▶ REPELLENTS, BIRD

Electra Protection Co Inc 11 N Pearl Albany 7 NY  
NIXALITE CO OF AMERICA 115 W 3RD DAVENPORT IOWA  
Tanglefoot Co 314 Straight Av S W Grand Rapids 4 Mich

### ▶ REPELLENTS, INSECT

BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY  
Calumet Refining Co 4321 S Western Chicago Ill  
Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp 30 E 42nd New York 17 NY  
Glidden Co 11001 Madison Cleveland 2 Ohio  
PYROFAX GAS CO DIV UNION CARBIDE & CARBON CORP 30 E 42ND NEW YORK 17 NY  
Sweeney-Vacuum Oil Co 26 Broadway New York NY  
Unexcelled Chemical Corp 350 Fifth Av New York 1 NY

### ▶ REPELLENTS, WATER

AMERICAN STA-DRI CO 4019 38TH BRENTWOOD, MD  
Armor Laboratories Inc Commercial & Doran Glendale 2 Cal  
Blue Ridge Talc Co Inc Henry Va  
Boyer Chemical Laboratory Co 2236 S Wabash Chicago Ill  
Chapman Chemical Co 714 Dermon Bldg Memphis 2 Tenn  
Concor Paint Co 4th & Main Kansas City Mo  
CUPRINOL DIV DARWORTH INC 56 MAPLE SIMSBURY CONN  
Daseco Co Inc 1602 Thames Baltimore 31 Md  
Flexrock Co 36th & Filbert Philadelphia 4 Pa  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTICS AV PITTSFIELD MASS  
Goss (J C) Co 36 E Woodbridge Detroit 26 Mich  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio  
Johnson (S C) & Co Inc 1525 Howe Racine Wis  
Liebich (G L) Co 931 N Ogden Av Chicago 22 Ill  
Monroe Co Inc 10703 Quebec Av Cleveland 6 Ohio  
MONSANTO CHEMICAL CO 1700 S SECOND ST LOUIS 4 MO  
PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH  
Protexol Corp 162 Market Kenilworth NJ  
Rock Island Milkwork Co 2525 Fourth Av Rock Island Ill  
Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis  
STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA  
Surface Protection Co 16799 Euclid Cleveland 12 Ohio  
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY

Trucon Laboratories Div Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Tuferte Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

### ▶ RESIN, SYNTHETIC

Atlas Mineral Prods Co Mertztown Pa  
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY  
Borden Co Chemical Div 350 Madison Av New York 17 NY  
Christy Co Inc 4464 Duncan St Louis 10 Mo  
Devco & Reynolds Co Inc 787 First Av New York 17 NY  
Du Pont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
Firestone Plastics Co Pottstown Pa  
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTICS AV PITTSFIELD MASS  
Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
Industrial Chemical Sales Div West Virginia Pulp & Paper Co 230 Park Av New York 17 NY  
Monite Waterproof Glue Co 1093 Monite Bldg North Minneapolis 11 Minn  
MONSANTO CHEMICAL CO PLASTICS DIV 1700 S SECOND ST LOUIS MO  
National Casein Sales 601 W 80th Chicago 20 Ill  
Perkins Glue Co 652 Cannon Av Lansdale Pa  
Placo Div Paisley Prods Inc 718 Washington Av North Minneapolis Minn  
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
Rohm & Haas Co Washington Sq Philadelphia 5 Pa  
Seiditz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
Tuferte Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

### ▶ ROLLERS, LAWN

Boyle Mfg Co Los Angeles Cal  
Buck Mfg Co 800 S Market Elizabethtown Pa  
Consolidated Industries Mixville Rd West Cheshire Conn  
Jackson Mfg Co Lochiel Rd Harrisburg Pa  
Midland Co 1200 W Rawson Av South Milwaukee Wis  
Ohio Machine Prods Co Columbus Ohio  
Whitehurst (R W) Mfg Corp 902 Cooke Av Norfolk Va

### ▶ ROLLERS, LINOLEUM

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
Selek (Walter E) & Co 225 W Hubbard Chicago 10 Ill

### ▶ ROLLS, RIDGE, ROOF VENTILATING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
Klauer Mfg Co 9th & Washington Dubuque Iowa

### ▶ ROLLS, ROOF RIDGE

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Asbestos Co of Texas Div of Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N E CANTON 5 OHIO  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
BIRD & SON 47 WILSON EAST WALPOLE MASS  
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO  
ECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN  
Continental Steel Corp 1109 S Main Kokomo Ind  
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal

**KEASBEY & MATTISON CO BUTLER AV  
AMBLER PA**

Klauer Mfg Co 9th & Washington Dubaque  
Iowa

LaCrosse Steel 227 Jay LaCrosse Wis

Lehon Co 4425 S Oakley Chicago 9 Ill

**METALBESTOS DIV WALLACE (WM) CO  
BELMONT CAL**

Newport Steel Corp 9th & Lowell Newport Ky

**NICHOLS WIRE & ALUMINUM CO 1729  
ROCKINGHAM RD DAVENPORT IOWA**

Northwest Metal Prods Inc 55 Spokane Seattle  
Wash

Old American Roofing Mills 7600 Truman Rd  
Kansas City Mo

Penn Supply & Metal Corp 1831 N 5th Phila-  
delphia 22 Pa

Quaker State Metals Co Manheim Pike at City  
Bypass Lancaster Pa

Republic Steel Corp Republic Bldg Cleveland  
1 Ohio

**REYNOLDS METALS CO BUILDING PRODS  
DIV 2001 NINTH LOUISVILLE 1 KY**

**RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY**

**ST PAUL CORRUGATING CO SOUTH END  
WABASHA BRIDGE ST PAUL 1 MINN**

Southern States Iron Roofing Co Stiles Av &  
Louisville Rd Savannah Ga

Tennessee Coal & Iron Div United States  
Steel Corp Box 599 Fairfield Ala

Tennison Bros Inc 450 N Bellevue Memphis 1  
Tenn

United States Steel Co 525 William Penn Pl  
Pittsburgh 30 Pa

Wheeling Corrugating Co Wheeling W Va

**▶ ROOF SADDLES**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis

Hopson (W C) Co 216-220 Grandville Av  
Grand Rapids 2 Mich

Hudson (H D) Mfg Co 589 E Illinois Chicago  
Ill

**INLAND STEEL PRODS CO 4045 W BURN-  
HAM MILWAUKEE 1 WIS**

Macomb Steel Prods Co Macomb Ill

Simplex Brooder Stove Co 220 Grandville Av  
S W Grand Rapids 2 Mich

**▶ ROOFING, ALUMINUM**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich

Alumalux Co Box 591 Pasadena Cal

Aluminum Co of America 1501 Alcoa Bldg  
Pittsburgh 19 Pa

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis

Chemical Supply Co 3540 Norton Cleveland  
Ohio

Childers Mfg Co 3620 W 11th Houston 8 Tex

Kaiser Aluminum & Chemical Corp 1924  
Broadway Oakland 12 Cal

**NICHOLS WIRE & ALUMINUM CO 1729  
ROCKINGHAM RD DAVENPORT IOWA**

Penn Supply & Metal Corp 1831 N Fifth  
Philadelphia 22 Pa

Quaker State Metals Co Manheim Pike at  
City Bypass Lancaster Pa

**REYNOLDS METALS CO BUILDING PRODS  
DIV 2001 S 9TH LOUISVILLE 1 KY**

Rollton of America 714 E Van Buren Phoenix  
Ariz

Sonneborn (L) & Sons Inc Building Prods  
Div 404 Fourth Av New York 16 NY

Southern States Iron Roofing Co Stiles Av &  
Louisville Rd Savannah Ga

Tiffin Art Metal Co Tiffin 16 Ohio

**▶ ROOFING, ALUMINUM,  
CORRUGATED**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich

Aluminum Co of America 1501 Alcoa Bldg  
Pittsburgh 19 Pa

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis

Childers Mfg Co 3620 W 11th Houston 8 Tex

Kaiser Aluminum & Chemical Sales Inc 1924  
Broadway Oakland 12 Cal

Quaker State Metals Co Manheim Pike at  
City Bypass Lancaster Pa

**REYNOLDS METALS CO BUILDING PRODS  
DIV 2001 S 9TH LOUISVILLE 1 KY**

Southern States Iron Roofing Co Stiles Av &  
Louisville Rd Savannah Ga

**▶ ROOFING, ASBESTOS CEMENT**

**CAREY (PHILIP) MFG CO 316 S WAYNE  
CINCINNATI 15 OHIO**

Ceresit Waterproofing Corp 3227 S Shields  
Av Chicago 16 Ill

**FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK 20 NY**

Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY

**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**

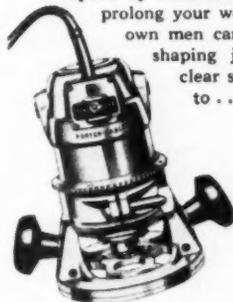
**KEASBEY & MATTISON CO BUTLER AV  
AMBLER PA**

NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY

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American Cancer Society

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PABCO PRODS 475 BRANNAN SAN FRANCISCO 19 CAL  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY  
SUPRADUR CORP OF NEW YORK 122 E 42ND NEW YORK 17 NY

### ▶ ROOFING, ASBESTOS CORRUGATED

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
KEASBEY & MATTISON CO BUTLER AV AMBLER PA  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

### ▶ ROOFING, ASPHALT ROLL

Amalgamated Roofing Co 6600 S Central Chicago 38 Ill  
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY  
BIRD & SON INC 47 WILSON EAST WALPOLE MASS  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
CERTAIN-TEED PRODS CO 120 E LANCASTER ARDMORE PA  
Chase Bag Co 309 W Jackson Chicago Ill  
FLINTKOTE CO 39 ROCKEFELLER PLAZA NEW YORK 20 NY  
Ford Roofing Prods Co 188 W Randolph Chicago Ill  
Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind  
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Logan-Long Co 6600 S Central Chicago Ill  
National Mfg Corp 3343 Flanagan Tonawanda NY  
National Plywoods Inc 2710 Throop Chicago Ill  
Nelson (B F) Mfg Co 401 N E Main Minneapolis 13 Minn  
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL  
Protective Papers Inc Union Ill  
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY  
Tamko Asphalt Prods Inc 601 N High Joplin Mo  
Texas Co 135 E 42nd New York 17 NY  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ ROOFING, BUILT-UP, MATERIALS FOR

Abesto Mfg Corp 131 Wabash Michigan City Ind  
Aluminum Building Prods Inc 1145 Mary Jacksonville Fla  
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BARRETT DIV ALLIED CHEMICAL & DYE CO 40 RECTOR NEW YORK 6 NY  
BIRD & SON INC 47 WILSON EAST WALPOLE MASS  
Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
FLINTKOTE CO 39 ROCKEFELLER PLAZA NEW YORK 20 NY  
Ford Roofing Prods Co 188 W Randolph Chicago Ill  
Haynes Prods Co 4007 Farnum Omaha 3 Neb  
JOHNS-MANVILLE 22 E 40TH NEW YORK 16 NY  
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa  
Labco Inc 10312 Wilbur Av Cleveland 6 Ohio  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Logan-Long Co 6600 S Central Av Chicago 8 Ill  
Old American Roofing Mills 7600 Truman Rd Kansas City Mo

Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
OWENS-CORNING FIBERGLAS CORP NICHOLAS BLDG TOLEDO 3 OHIO  
Plymold Co 2707 Tulare Av Burbank Cal  
Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
Texas Co 135 E 42nd New York 17 NY  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ ROOFING, CONCRETE SLAB

Alabama Cement Tile Co 300 S 41st Birmingham 1 Ala  
Cementstone Co Neville Island Pittsburgh 25 Pa

### ▶ ROOFING, COPPER

AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bridgeport Brass Co 30 Grand Bridgeport 2 Conn  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN  
Edwards Mfg Co 5th & Butler Cincinnati Ohio  
Giehner Inc 1900 Kendall N E Washington 2 D C  
Hussey (C G) & Co 2860 Second Av Pittsburgh 19 Pa  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
REVERE COPPER & BRASS INC 230 PARK AV NEW YORK 17 NY

### ▶ ROOFING, SEALERS, CORRUGATED

Fabricated Prods Co Water St West Newton Pa  
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

### ▶ ROOFING STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
AMERICAN STEEL & WIRE CO UNITED STATES STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Armeo Steel Corp 703 Curtis Middletown Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N E CANTON 5 OHIO  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Chemical Supply Co 3540 Norton Cleveland Ohio  
Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp 1109 S Main Kokomo Ind  
Cupples Co 401 S 7th St Louis 2 Mo  
Edwards Mfg Co 5th & Butler Cincinnati Ohio  
Fenster Building Prods 2250 E Grand Blvd Detroit 11 Mich  
FOLLANSBEE STEEL CORP 110 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA  
Gary Pioneer Steel Corp Gary Ind  
Granite City Steel Co 20th & Madison Granite City Ill  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati 32 Ohio  
Hopson (W C) Co 216-20 Grandville Av Grand Rapids 2 Mich  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
International Nickel Co 67 Wall New York 5 NY  
Klauer Mfg Co 9th & Washington Dubuque Iowa  
Mahon (R C) Co Box 4666 Detroit 34 Mich  
Mid States Steel & Wire Co Crawfordville Ind  
Newport Steel Corp 9th & Lowell Newport Ky  
NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Quaker State Metal Co Manheim Pike at City Bypass Lancaster Pa  
Reeves Steel & Mfg Co 6 Iron Av Dover Ohio  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN  
Sioux Steel Co Sioux Falls S D  
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga  
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala

AMERICAN BUILDER

Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
Tiffin Art Metal Co Tiffin Ohio  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
Wheeling Corrugating Co Wheeling W Va

### ▶ ROOFING, STEEL, ASPHALT COATED

Plasteel Prods Corp 15 McAdam Av Washington Pa  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ ROPE, COTTON

Archer (A W) Co Inc 366 Broadway New York 13 NY  
Astrup Co 2957 W 25th Cleveland 13 Ohio  
Bills Mfg Co Macon Ga  
Fricke (J E) Co 40 N Front Philadelphia 6 Pa  
Graham (John H) & Co Inc 105 Duane New York 8 NY  
Hoffman Lion Mills Co Inc Fall River Mass  
Lambeth Rope Corp 1000 Tarklin Hill Rd New Bedford Mass  
Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky  
Raucher Mfg Co Inc Norwich Conn  
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
**SAMSON CORDAGE WKS 80 BROAD BOSTON 10 MASS**  
Silver Lake Co 60 Batterymarch Boston 10 Mass  
Southern Mills Corp Oxford Ala  
Turner & Stanton Co Norwich Conn  
Whitaker (Wm D) Sedgley & Castor Avs Philadelphia 24 Pa

### ▶ ROPE, HEMP, MANILA & SISAL

American Ladder Co 5509 N W 7th Av Miami 38 Fla  
American Mfg Co Noble & West Brooklyn 22 NY  
American Tent & Awning Co 1132 Mission San Francisco 3 Cal  
Astrup Co 2957 W 25th Cleveland 13 Ohio  
Cading Rope Works Inc Masspeth LI NY  
Columbian Rope Co 309 Genesee Auburn NY  
Cupples Co 401 S 7th St Louis 2 Mo  
Fidler (Edwin H) Co Devereaux & Milnor Philadelphia 24 Pa  
Graham (John H) & Co Inc 105 Duane New York 7 NY  
Hoffman Lion Mills Inc Fall River Mass  
Hooking Paper Co 1301 W Lake Wilmette Ill  
International Harvester Co 180 N Michigan Av Chicago 1 Ill  
Johnson-Pickett Rope Co 120 Wall New York 5 NY  
New Bedford Cordage Co 131 Court New Bedford Mass  
Plymouth Cordage Co North Plymouth Mass  
Raucher Mfg Co Norwich Conn  
Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
St Louis Cordage Mills 11th & Lafayette St Louis 4 Mo  
Tubbs Cordage Co 104 Sansome San Francisco Cal  
Turner & Stanton Co Box 25 Norwich Conn  
Wall Rope Wks Inc 48 South St New York 5 NY  
Whitaker (Wm B) Sedgley & Castor Avs Philadelphia 24 Pa  
Whitlock Cordage Co 46 South St New York 5 NY

### ▶ ROPE, WIRE

American Cable Div American Chain & Cable Co Inc Wilkes-Barre Pa  
**AMERICAN STEEL & WIRE CO UNITED STATES STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Broderick & Bascom Rope Co 4203 N Union Blvd St Louis 15 Mo  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
Hazard Wire Rope Div American Chain & Cable Co Wilkes-Barre Pa  
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
MacWhyte Co 2960 14th Av Kenosha Wis  
Roebling's (John A) Sons Corp Broad & Neroni Trenton NJ  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
Upson Walton Co 12500 Elmwood Av Cleveland 11 Ohio  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ ROUTERS, ELECTRIC HOMECRAFT

Chicago Wheel & Mfg Co 1101 W Monroe Chicago Ill  
**DEWALT INC FOUNTAIN AV LANCASTER PA**  
Dumore Co 1300 17th Racine Wis  
Duro Metal Prods Co 2649 N Kildare Chicago Ill  
Ekstrom Carlson & Co 1400 Railroad Av Rockford Ill  
Hurricane Machine Wks 6316 Wentworth Chicago 21 Ill  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
Porter (C O) Machinery Co 666-68 Front Av N W Grand Rapids 4 Mich  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**

### ▶ RULES, BOARD LUMBERMEN'S

Buck (Frank R) & Co 2133 W Touhy Av Chicago 45 Ill  
**LUFKIN RULE CO 1730 HESS AV SAGINAW MICH**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**

### ▶ RULES, BOXWOOD

Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY  
**LUFKIN RULE CO 1730 HESS AV SAGINAW MICH**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Universal Drafting Machine Co 7960 Lorain Av Cleveland 2 Ohio

### ▶ RULES, FOLDING

Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill  
Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY  
Economy Novelty & Printing Co 225 W 39th New York NY  
**EVANS & CO 400 TRUMBULL ELIZABETH NJ**  
General Hdwe Mfg Co Inc 80 White New York 13 NY  
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill  
International Twist Drill Corp 624 Wyandotte Kansas City 6 Mo  
Keuffel & Esser Co 300 Adams Hoboken NJ  
**LUFKIN RULE CO 1730 HESS AV SAGINAW MICH**  
**MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY**  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Starrett (L S) Co 101 Crescent Athol Mass  
**WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA**  
Woodmark Industries Inc 4601 Hwy 7 St Louis Park Minneapolis 16 Minn

### ▶ RULES, SLIDE

Dietzgen (Eugene) Co 2425 N Sheffield Chicago Ill  
Keuffel & Esser Co 300 Adams Hoboken NJ  
Lawrence Engineering Service 98 Smith Peru Ind  
Multi-Aid Computer Corp 249 W 34th New York NY  
Parisian Novelty Co 3510 S Western Av Chicago 9 Ill  
Pickett & Eckel Inc 5 S Wabash Av Chicago 3 Ill  
Post (Frederick) Co 333 W Lake Chicago Ill  
Rader (Everett) Co Box 122 Bowling Green St New York 4 NY  
Union Tool Co 48 E River Orange Mass  
**WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA**

### ▶ RULES, STEEL

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Brown & Sharpe Mfg Co 235 Promenade Providence 1 RI  
**CARLSON & SULLIVAN 1617 S CALIFORNIA AV MONROVIA CAL**  
Economy Novelty & Printing Co 225 W 39th New York 18 NY  
**EVANS & CO 400 TRUMBULL ELIZABETH NJ**  
Genera! Hdwe Mfg Co Inc 80 White New York 13 NY  
International Twist Drill Corp 624 Wyandotte Kansas City 6 Mo  
Keuffel & Esser Co 300 Adams Hoboken NJ  
**LUFKIN RULE CO 1730 HESS AV SAGINAW MICH**  
**MASTER RULE MFG CO INC 40 MULBERRY MIDDLETOWN NY**  
Millers Falls Co Wells & Devon Greenfield Mass  
Ox-Wall Tool Co 928 Broadway New York 10 NY  
Roe (Justus) & Sons 1 Roe Ct Patchogue L I NY  
Sheeld-Brown Mfg Co 311-321 5th Av S Minneapolis 15 Minn

**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
Starrett (L S) Co 101 Crescent Athol Mass  
Union Tool Co 48 E River Orange Mass  
Woodmark Industries Inc 4601 Hwy 7 St Louis Park Minneapolis 16 Minn

### ▶ SAFES, BUILT-IN WALL

Diebold Inc 818 Mulberry Rd SE Canton 2 Ohio  
Dudley Lock Corp 564 W Monroe Chicago Ill  
Meilink Steel Safe Co Oakwood & Dawson Av Toledo Ohio  
Mosler Safe Co Hamilton Ohio  
Mosler Safe Co 320 Fifth Av New York 1 NY  
**REMINGTON RAND INC 315 FOURTH AV NEW YORK 10 NY**

### ▶ SALAMANDERS

Adams Co Box 268 Dubuque Iowa  
Aerol Prods Co Inc 69 Wesley South Hackensack NJ  
Allen Steel Prods Inc 2941 E Ten-Mile Mile Hazel Park Mich  
American Steel Wks 1211 W 27th Kansas City 8 Mo  
**DANIELS (C R) INC 4900 BLOCK WETHERSVILLE RD HILLSDALE BALTIMORE 16 MD**  
Diener (Geo W) Mfg Co 400 N Monticello Chicago Ill  
Dorsey Bros Co 13910 Miles Av Cleveland 5 Ohio  
Ideal Cabinet Corp 5131 Dempster Skokie Ill  
International Mfg Co 2249 S Delaware Denver 19 Colo  
Jackson Mfg Co Lochiel Rd Harrisburg Pa  
Lennox Furnace Co 200 S 12th Av Marshalltown Iowa  
Mohawk Asphalt Heater Co Frankfort NY  
Scheff Prods Co Ltd 297 E Stowell Upland Cal  
Unique Mfg Co Inc 221 W Walton Chicago Ill

### ▶ SAND, SILICA WHITE

Crystal Silica Co 717 E 61st Los Angeles Cal  
Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
Tamma Industries Inc 228 N LaSalle Chicago 1 Ill  
Vitro Mfg Co 60 Greenway Dr Pittsburgh 4 Pa

### ▶ SANDERS, BELT, DRUM, SPINDLE & DISC

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
Beach Mfg Co Mill & Boyer Montrose Pa  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 4 OHIO**  
Burgess Vibrocrafters Inc Grayslake Ill  
Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
Curtis Machine Corp 1300 E Second Jamestown NY  
**DEWALT INC FOUNTAIN AV BOX 540 LANCASTER PA**  
Elekstrom-Carlson & Co 1439 Railroad Av Rockford Ill  
**HOLT MFG CO 651 26TH OAKLAND 12 CAL**  
Kent Co Inc 351 Canal Rome NY  
**MALL TOOL CO 7740 SOUTH CHICAGO AV CHICAGO 19 ILL**  
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill  
**MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 4 WIS**  
Minneapolis Machine & Tool Co Minneapolis 4 Minn  
Newman Bros Inc 660 W Fourth Cincinnati 3 Ohio  
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids Mich  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
Reid-Way Inc 2955 1st Av Cedar Rapids Iowa  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**  
Shopmaster Inc 1214 Third S Minneapolis Minn  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
Thor Power Tool Co 175 N State Aurora Ill  
Toolkraft Corp Plainfield St Springfield 1 Mass  
Walker-Turner Co Div Kearney & Trecker Corp 639 South Av Plainfield NJ  
Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
Yates-American Machine Co 701 Fourth Beloit Wis

### ▶ SANDERS, ELECTRIC, PORTABLE

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
**BRADFORD MACHINE TOOL CO 657-671 EVANS CINCINNATI 4 OHIO**  
Burgess Vibrocrafters Inc Grayslake Ill

Chicago Pneumatic Tool Co 6 E 44th New York 17 NY  
 Cincinnati Electrical Tool Co Madison & Edwards Rds Cincinnati 8 Ohio  
 Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
 Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Los Angeles 21 Cal  
 Detroit Surfacing Machine Co 1333 E 8-Mile Rd Hazel Park Mich  
**DRUMEL MFG CO 2420 18TH RACINE WIS**  
 Florbuss-Habit Co 4181 W Montrose Chicago 41 Ill  
 Hilger Co 1209 St Germain St Cloud Minn  
 Kent Co Inc 351 Canal Rome NY  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
 Merit Prods Inc 4025 Irving Pl Culver City Cal  
 Millers Falls Co Wells & Devon Greenfield Mass  
**MILWAUKEE ELECTRIC TOOL CORP 3356 W STATE MILWAUKEE 8 WIS**  
 National Air Sander Inc 821 Kishwaukee Rockford Ill  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Portable Electric Tools Inc 329 W 83rd Chicago 20 Ill  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
 Reid Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
 Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
 Speedway Mfg Co 1834 S 52nd Av Cicero 50 Ill  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
 Sterling Tool Prods Co 363 E Ohio Chicago 11 Ill  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**  
 Thor Power Tool Co 175 N State Aurora Ill  
 U S Electrical Tool Div Emerson Electric Mfg Co 1050 Findlay Cincinnati 14 Ohio  
 Wren Prods Inc 5806 Northwest Hwy Chicago 31 Ill

#### ▶ SANDERS, FLOOR

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
 Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY  
 Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
 Denver Floor & Safety Supply Co 3801 High Denver Colo  
 Florbuss-Habit Co 4181 W Montrose Chicago 14 Ill  
 Hilger Co 1209 St Germain St Cloud Minn  
**HOLT MFG CO 651 20TH OAKLAND 12 CAL**  
 Kent Co Inc 351 Canal Rome NY  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
**RED DEVIL TOOLS 130 COIT IRVINGTON NJ**  
 Reid-Way Corp 2935 First Av Cedar Rapids Iowa  
 Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
 Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

#### ▶ SASH BALANCES

Acme Sash Balance Co 1626 Long Beach Av Los Angeles 21 Cal  
 Air-Tite Window Stay Co Chippewa Mass  
**ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL**  
 Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY  
 Caldwell Mfg Co 64 Commercial Rochester 14 NY  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
**CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 46 ILL**  
 Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill  
 Duplex Inc 634 N Lapeer Los Angeles 46 Cal  
 Fabry (W H) Mfg Co 620 S Date Av Alhambra Cal  
 Formetal Inc 109 W Water Oak Harbor Ohio  
 Goshen Sash & Door Co E Purl Goshen Ind  
**GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS 2 MICH**  
 Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
 Industrial Iron Wks Box 4625 6011 S W Macadam Portland 1 Ore  
 Leiden Specialty Co Oconomowoc Wis  
 Lock-Joint Window Co 817 NW 61st Oklahoma City 14 Okla  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**  
**MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL**  
 Milwaukee Stamping Co 800 S 72nd Milwaukee 14 Wis

Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill  
 Pullman Mfg Co 325 Hollenbeck Rochester NY  
 Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
 Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
 Samson Prods Co 3219 Armitage Av Chicago 2031  
 Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn  
 Star Sash Balance Corp 109 W Water Oak Harbor Ohio  
**TURNER & SEYMOUR MFG CO LAWTON ST TORRINGTON CONN**  
 Unique Balance Co 25 Bruckner Blvd New York 54 NY  
 Warnick Prods 6416 S Ashland Av Chicago 36 Ill  
**WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO**  
 Western Foundry Co 2400 S W Water Av Portland 1 Ore  
**ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL**

#### ▶ SASH CORD, FIBER

Archer (A W) Co Inc 366 Broadway New York 13 NY  
 Cleveland Mills Co Lawndale NC  
 Cupples Co 401 S 7th St Louis 2 Mo  
 Fricke (J E) Co 40 N Front Philadelphia Pa  
 Goshen Sash & Door Co E Purl Goshen Ind  
 Graham (John H) & Co Inc 105 Duane New York 8 NY  
 Hooper (Wm E) & Sons Co 1319-23 Cherry Philadelphia Pa  
 Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky  
 Raucher Mfg Co Inc Norwich Conn  
 Rauschenberger (John) Co 423 N Plankinton Av Milwaukee 1 Wis  
 Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
 Rocky Mount Cord Co Inc Box 1271 Rocky Mount NC  
**SAMSON CORDAGE WKS 80 BROAD BOSTON MASS**  
 Shuford Mills Inc Drawer 340 Hickory NC  
 Silver Lake Co 60 Batterymarch Boston 10 Mass  
 Southern Mills Corp Oxford Ala  
 Whittier Mills Co Chattahoochee Ga

#### ▶ SASH CORD, WIRE

**AMERICAN STEEL & WIRE DIV U S STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 MacWhyte Co 2960 14th Av Kenosha Wis  
 Roebling's (John A) Sons Corp Broad & Neroni Trenton 2 NJ  
 Southern Mills Corp Oxford Ala  
 Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

#### ▶ SASH & DOOR, CUT STOCK, PONDEROSA

Brooks-Seanlon Inc Bend Ore  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash  
 Firpine Prods Co Box 546 Oswego Ore  
 Hines (Edward) Lumber Co 77 W Washington Chicago 8 Ill  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Templeton (Herbert A) Lumber Co Portland 5 Ore  
**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

#### ▶ SASH, GREENHOUSE

Burke Millwork Co Fremont Bridge Seattle 3 Wash  
 Cole Mfg Co Box 2657 Memphis 2 Tenn  
 Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY  
 Morgan Co 520 Oregon Oshkosh Wis

#### ▶ SASH HOLDERS

Arrow Mfg Co Box 468 Independence Kan  
**CORBIN (P & F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**  
 Ideal Brass Wks 250 E 5th St Paul 1 Minn  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
 Leiden Specialty Co Oconomowoc Wis  
 Rockford Sash Holder Inc 507 Empire Bldg Rockford Ill  
 Roger Co Inc 3718 Chicago Av Minneapolis 7 Minn  
 Vikre (J N) Co Inc 3016 14th Av S Minneapolis Minn

#### ▶ SAW MILLS, MACHINERY FOR

American Saw Mill Machinery Co 169 Main Hackettstown NJ

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Champion Blower & Forge Co 1947 Charlotte Lanester Pa  
 Chase Turbine Mfg Co Orange Mass  
 Corinth Machinery Co 480 Tate Corinth Miss  
 Corley Mfg Co Clifton Hills Chattanooga 1 Tenn  
 Enterprise Co S Main Columbiana Ohio  
 Filer & Stowell Co 147 E Becher Milwaukee 7 Wis  
 Industrial Iron Wks Box 4625 6011 S W Macadam Portland 1 Ore  
 McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis  
 Mitts & Merrill 1009 S Water Saginaw Mich  
 Oliver Corp Farquhar (A B) Div 142 N Duque York Pa  
 Turner Mfg Co Wise St Statesville NC  
 Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn  
 Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

#### ▶ SAW REPAIRS AND ADJUSTMENTS

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Chattanooga Saw Wks 1512 Williams Chattanooga Tenn  
 Corley Mfg Co Clifton Hills Chattanooga 1 Tenn  
 Cunningham Machinery Corp 735 Ricou Shreveport La  
 Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Hoe (R) & Co Inc 910 E 138th New York 54 NY  
 Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
 Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa  
 Miner & Son Saw Wks Shreveport 90 La  
 Simonds Saw & Steel Co Meridian Miss

#### ▶ SAW SETS

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
 Beaver Mfg Co 800 S Isis Av Inglewood 1 Cal  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Corley Mfg Co Clifton Hills Chattanooga 1 Tenn  
 Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
 Foley Mfg Co 3300 N E Fifth Minneapolis 18 Minn  
 General Hdwe Mfg Co Inc 80 White New York 13 NY  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Hoe (R) & Co Inc 910 E 138th New York 54 NY  
 Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
 Millers Falls Co Wells & Devon Greenfield Mass  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
 Smith (Seymour) & Son Onkville Conn  
**STANLEY WKS 111 ELM NEW BRITAIN CONN**  
 Wardwell Mfg Co 3176 Fulton Rd Cleveland 9 Ohio

#### ▶ SAW SWAGES & SHAPERS

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Corley Mfg Co Clifton Hills Chattanooga 1 Tenn  
 Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Hoe (R) & Co Inc 910 E 138th New York 54 NY  
 Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
 Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
 Wardwell Mfg Co 3167 Fulton Rd Cleveland 9 Ohio

#### ▶ SAWS, BAND

American Saw & Mfg Co 67 Boylston Springfield 1 Mass  
 Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
 Burgess Vibrocrafters Inc Grayslake Ill  
 Burton Saw Co 91 Foster Worcester Mass  
 C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis  
 Capewell Mfg Co 60 Governor Hartford 2 Conn  
 Clemson Bros Inc Cottage St Middletown NY

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
 Diston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
 Duro Metal Prods Co 2649 N Kildare Chicago 39 Ill  
 Enterprise Co S Main Columbiana Ohio  
 Fay (J A) & Eran Co 2901 Eastern Av Cincinnati 2 Ohio  
**FORBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN**  
 Foster Mfg Co 1 Kinsey Buffalo 17 NY  
 Graham (John H) & Co Inc 105 Duane New York 8 NY  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio  
 Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa  
 Hoe (R) & Co 910 E 138th New York 54 NY  
 Huther Bros Saw Mfg Co Inc 1290 University Av Rochester 7 NY  
 Jones Superior Machine Co 1272 W North Av Chicago 22 Ill  
 Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa  
 McDonough Mfg Co 1500-1600 Galloway Eau Claire Wis  
 Millers Falls Co Wells & Devon Greenfield Mass  
 Oliver Machinery Co 1025 Clancy Av N E Grand Rapids 2 Mich  
 Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio  
 Payne (B H) & Co 101 W Taylor Av East Point Ga  
 Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**  
 Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio  
 Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
 Starratt (L S) Co 101 Crescent Athol Mass  
 Tannewitz Wks 303 Front Av NW Grand Rapids 4 Mich  
 Toolkraft Corp Plainfield St Springfield 1 Mass  
 Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ  
 Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
 Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn

Woods (S A) Machine Co Damrell & Alger Boston 27 Mass  
 Yates-American Machine Co 701 Fourth Beloit Wis

#### ▶ SAWS, BENCH

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
 C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis  
 Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
 Hanchett Mfg Co 906 N State Big Rapids Mich  
 Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa  
 Jones Superior Machine Co 1272 W North Av Chicago 22 Ill  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
 Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**  
 Shopmaster Inc 1214 Third St S Minneapolis Minn  
 Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ  
 Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
 Wilson Saw Div Media Machine Wks 620 Park Av Media Pa  
 Yates-American Machine Co 701 Fourth Beloit Wis

#### ▶ SAWS, BUCKING

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Genco Tools 1830 N Kostner Av Chicago 39 Ill  
 Lowther (Henry A) Co Moen Av & Thomas Joliet Ill  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
 Titan Chain Saws Inc 2700 4th Av S Seattle 4 Wash

#### ▶ SAWS, CHAIN, TREE FELLING & BUCKING, POWERED

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
 Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
 Hansen Machinery & Supply Co 820 Broadway Eureka Cal  
**HOMELITE CORP 67 RIVERDALE AV PORT CHESTER NY**  
 Jacques Power Saw Co Denison Tex  
 Lombard Governor Corp Main & Pleasant Ashland Mass  
 Lowther (Harry A) Co Moen Av & Thomas Joliet Ill  
**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
 Ottawa Mfg Co Ottawa Kan  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
 Terrill (D D) Saw Co Bangor Me  
 Titan Chain Saws Inc 2700 4th Av S Seattle 4 Wash  
 Vulcan Iron Wks Co 1423 Stout Denver 2 Colo

#### ▶ SAWS, CHAMFERING

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**DEWALT INC BOX 540 LANCASTER PA**  
 Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
 Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

#### ▶ SAWS, CIRCULAR DADO

American Woodworking Machinery Co 100 Liberty Hackettstown NJ  
 Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH**  
 Beach Mfg Co Mill & Boyer Montrose Pa

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**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**

Chattanooga Saw Wks 1512 Williams Chattanooga Tenn

**DEWALT INC BOX 540 LANCASTER PA**

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill

Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio

Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio

Hoe (R) & Co Inc 910 E 138th New York 54 NY

Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

Kneisley Electric Co 2501-9 Lagrange Toledo 3 Ohio

**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**

Master-Taper Co 4531 N Beacon Chicago 40 Ill

**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**

Media Machine Wks Inc 620 Park Av Media Pa

**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**

Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio

St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn

Shopmaster Inc 1214 Third St S Minneapolis Minn

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Toolkraft Corp Plainfield St Springfield 1 Minn

Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ

Wallace (J D) & Co 136 S California Av Chicago 12 Ill

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

Yates-American Machinery Co 701 Fourth Beloit Wis

**SAWS, CIRCULAR, INSERTED TOOTH**

American Saw Mill Machinery Co 169 Main Hackettstown NJ

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**

Chattanooga Saw Wks 1512 Williams Chattanooga Tenn

Corley Mfg Co Clifton Hills Chattanooga 1 Tenn

**DEWALT INC BOX 540 LANCASTER PA**

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

Hoe (R) & Co Inc 910 E 138th New York 54 NY

Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa

**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**

Meyers (W F) Co 1017 14th Bedford Ind

Miner & Son Saw Wks Shreveport 90 La

**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**

Simonds Saw & Steel Co Meridian Miss

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn

Yates-American Machinery Co 701 Fourth Beloit Wis

**SAWS, CIRCULAR, SOLID TOOTH**

Albertson & Co Inc Sioux City 3 Iowa

American Saw Mill Machinery Co 169 Main Hackettstown NJ

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind

Beach Mfg Co Mill & Boyer Montrose Pa

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**

**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**

Chattanooga Saw Wks 1512 Williams Chattanooga Tenn

C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal

Corley Mfg Co Clifton Hills Chattanooga Tenn

**DEWALT INC BOX 540 LANCASTER PA**

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

Filet & Stowell Co 147 Becher Milwaukee 7 Wis

Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio

Hoe (R) & Co Inc 910 E 138th New York 54 NY

Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY

Hutchinson Mfg Co Norristown Pa

Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa

Lippmann Engineering Wks 4603 W Mitchell Milwaukee 14 Wis

**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**

**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**

Media Machine Wks Inc 620 Park Av Media Pa

Miner & Son Saw Wks Shreveport 90 La

PTI Inc 401 Broadway New York 13 NY

Parks Woodworking Machine Co 1524 Knowlton Cincinnati Ohio

Power (L) & Co 2815 Oakford Philadelphia 46 Pa

**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**

Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio

St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn

Sandvik Saw & Tool Corp 47 Warren New York 7 NY

Shopmaster Inc 1214 Third St S Minneapolis Minn

Simonds Saw & Steel Co Meridian Miss

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ

Wallace (J D) & Co 136 S California Av Chicago 12 Ill

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn

Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

Yates-American Machinery Co 701 Fourth Beloit Wis

**SAWS, CUTOFF, POWERED**

American Saw & Mfg Co 67 Boylston Springfield 1 Mass

American Woodworking Machinery Co 100 Liberty Hackettstown NJ

Beach Mfg Co Mill & Boyer Montrose Pa

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**

**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**

C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis

C K L Machinery Co 160 Harrison Oshkosh Wis

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal

Corinth Machinery Co 480 Tate Corinth Miss

Corley Mfg Co Clifton Hills Chattanooga 1 Tenn

**DEWALT INC BOX 540 LANCASTER PA**

Evans (Robert G) Co 6315 Brookside Plaza Kansas City 13 Mo

Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio

**FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN**

Frick Co 329 Broadway Waynesboro Pa

Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa

Hoe (R) & Co Inc 910 E 138th New York 54 NY

Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY

Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

Jones Superior Machine Co 1272 W North Av Chicago 22 Ill

Lippert (E T) Saw Co 608 Lincoln Av Millvale Pittsburgh 9 Pa

**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**

Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill

Media Machine Wks Inc 620 Park Av Media Pa

Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich

Porter (C O) Machinery Co 666-668 Front Av NW Grand Rapids 4 Mich

**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**

St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn

Sandvik Saw & Tool Corp 47 Warren New York 7 NY

Shopmaster Inc 1214 Third St S Minneapolis Minn

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Stetson-Ross Machine Co 3200 1st Av S Seattle 4 Wash

Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ

Wallace (J D) & Co 136 S California Av Chicago 12 Ill

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

Wheland Co Signal Mountain Blvd Chattanooga 5 Tenn

Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

Woods (S A) Machine Co Damrell & Alger Boston 27 Mass

Yates-American Machinery Co 701 Fourth Beloit Wis

**SAWS, FOLDING**

**GOLDBLATT TOOL CO 1910 WALNUT KANSAS CITY 8 MO**

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

**SAWS, GROOVING**

American Woodworking Machinery Co 100 Liberty Hackettstown NJ

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind

Beach Mfg Co Mill & Boyer Montrose Pa

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**

Chattanooga Saw Wks 1512 Williams Chattanooga Tenn

**DEWALT INC BOX 540 LANCASTER PA**

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio

Hoe (R) & Co Inc 910 E 138th New York 54 NY

Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**

Media Machine Wks Inc 620 Park Av Media Pa

Shopmaster Inc 1214 Third St S Minneapolis Minn

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Wallace (J D) Mfg Co 136 S California Av Chicago 12 Ill

Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

Woods (S A) Machine Co Damrell & Alger Boston 27 Mass

Yates-American Machinery Co 701 Fourth Beloit Wis

**SAWS, HACK**

American Saw & Mfg Co 67 Boylston Springfield 1 Mass

American Woodworking Machinery Co 100 Liberty Hackettstown NJ

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind

Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn

Capewell Mfg Co 64 Governor Hartford 2 Conn

Clemson Bros Inc Cottage St Middletown NY

Consolidated Tool Wks Torrington Conn

Crecent Tool Co 200 Harrison Jamestown NY

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill

**FORSBERG MFG CO 125 SEAVIEW AV BRIDGEPORT 1 CONN**

Graham (John H) & Co 105 Duane New York 8 NY

K D Mfg Co 526 Plum Lancaster Pa

Lipe-Rollway Corp 806 Emerson Av Syracuse 1 NY

Mephisto Tool Co Inc Box 16 Hudson NY

Millers Falls Co Wells & Devon Greenfield Mass

**MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS**

Parker Mfg Co 149 Washington Worcester Mass

Proto Tool Co 2209 Santa Fe Av Los Angeles 54 Cal

**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**

Starrett (L S) Co 101 Crescent Athol Mass

Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY

**TRI-SAW CORP 6611 CLAYTON RD ST LOUIS 17 MO**

United Wire Goods Mfg Co Inc 1152 Broadway New York NY

Victor Saw Wks Inc 10 Cottage Pl Middletown NY

Western Saw Wks 1844 W Washington Blvd Los Angeles Cal

Wilson Hdwe Mfg Co 4432 S State Chicago Ill

**SAWS, HAND**

Allway Mfg Co 2061 Bronx Bronx 60 NY

American Saw & Mfg Co 67 Boylston Springfield 1 Mass

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind

Capewell Mfg Co 60 Governor Hartford 2 Conn

Disston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa

**GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO**

Graham (John H) & Co 105 Duane New York 8 NY

Hartmeister Mfg Co Inc 2020W Barberry Pl Denver 4 Colo

Pennsylvania Saw Corp York Pa

Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio

Sandvik Saw & Tool Corp 47 Warren New York 7 NY



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Turner Mfg Co Wise St Statesville NC  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, HOLE

American Saw & Mfg Co 67 Boylston Springfield 1 Mass  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
Circu Tool Co 3805 W Lisbon Milwaukee Wis  
Millers Falls Co Wells & Devon Greenfield Mass  
Misener Mfg Co 202-8 Walton Syracuse 2 NY  
Technical Glass Co Inc 2050 E 48th Los Angeles 58 Cal  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, JIG, POWERED

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
Beach Mfg Co Mill & Boyer Montrose Pa  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
Burgess Vibrocrafters Inc Grayslake Ill  
**DALTON MFG CO 20 S CENTRAL AV ST LOUIS 5 MO**  
**DEWALT INC BOX 540 LANCASTER PA**  
**DREMEL MFG CO 2420 18TH RACINE WIS**  
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill  
Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
Shopmaster Inc 1214 Third St S Minneapolis Minn  
Toolkraft Corp Plainfield St Springfield 1 Mass  
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, MITER

American Woodworking Machinery Co 100 Liberty Hackettstown NJ  
Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
**DEWALT INC BOX 540 LANCASTER PA**  
Diston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
**MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS**  
**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
Tannewitz Wks 303 Front Av NW Grand Rapids 4 Mich  
Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, MULEY

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, PORTABLE ELECTRIC

Aero Tool & Die Wks 4554 Broadway Chicago 40 Ill  
**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
American Woodworking Machinery Co 100 Liberty Hackettstown NJ  
**BLACK & DECKER MFG CO 600 E PENNSYLVANIA AV TOWSON 4 MD**  
**BRADFORD MACHINE TOOL CO 656-71 EVANS CINCINNATI 4 OHIO**  
Burgess Vibrocrafters Inc Grayslake Ill  
Chicago Pneumatic Tool Co E 44th New York 17 NY  
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
**CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL**  
**DEWALT INC BOX 540 LANCASTER PA**  
**DREMEL MFG CO 2420 18TH RACINE WIS**  
**FORSBERG MFG CO 125 SEAVIEW AV BRIDGEFORD 1 CONN**  
H & S Sales 2610 N Halsted Chicago Ill  
Heinemann (F) Saw & Mfg Co 2017 Navarre Rd S W Canton 6 Ohio

Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Av Fairfield Iowa  
Kett Tool Co 5 E 3rd Cincinnati 2 Ohio  
Lipe-Rollway Corp 806 Emerson Av Syracuse 1 NY

**MALL TOOL CO 7740 S SOUTH CHICAGO AV CHICAGO 19 ILL**  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
Millers Falls Co Wells & Devon Greenfield Mass

**MILWAUKEE ELECTRIC TOOL CORP 5356 W STATE MILWAUKEE 8 WIS**  
Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill  
Portable Electric Tools 320 W 83rd Chicago 20 Ill

**PORTER-CABLE MACHINE CO 1714 N SALINA SYRACUSE 8 NY**  
Producers & Distributors Inc 714 S Sixth Allentown Pa  
**RCS TOOL SALES CORP BOX 1434 JOLIET ILL**

Rockwell Tools Inc 1314 Kinnear Rd Columbus 8 Ohio  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
Speed-Way Mfg Co 1834 S 52nd Av Cicero 50 Ill

Spurzeon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
**SYNTRON CO 618 LEXINGTON AV HOMER CITY PA**

Thor Power Tool Co 175 N State Aurora Ill  
**TRI-SAW CORP 6611 CLAYTON RD ST LOUIS 17 MO**  
Vulcan Iron Wks Co 1423 Stout Denver 2 Colo

Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, RADIAL

American Woodworking Machinery Co 100 Liberty Hackettstown NJ  
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal

**CONSTRUCTION MACHINERY CO 420 VINTON WATERLOO IOWA**  
**DEWALT INC BOX 540 LANCASTER PA**  
Flexsaw Co Port Austin Mich

Henrick Mfg Co 11 Selman Marblehead Mass  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
Media Machine Wks Inc 620 Park Av Media Pa

**PORTER-CABLE MACHINE CO 1740 N SALINA SYRACUSE 8 NY**  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**

Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SKIL CORP 5033 ELSTON AV CHICAGO 30 ILL**  
Walker-Turner Div Kearney & Trecker Corp 639 South Av Plainfield NJ

Wallace (J D) & Co 136 S California Av Chicago 12 Ill  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal  
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa

### ▶ SAWS, RIP

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
American Woodworking Machinery Co 100 Liberty Hackettstown NJ

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
Beach Mfg Co Mill & Boyer Montrose Pa  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**

Chattanooga Saw Wks 1512 Williams Chattanooga Tenn  
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis  
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal

Corley Mfg Co Clifton Hills Chattanooga Tenn  
Dependable Machine Co Box 1235 Sedgewick Greensboro NC  
**DEWALT INC BOX 540 LANCASTER PA**

Diston (Henry) & Sons Inc Tacony Sta Unruh & Milnor Philadelphia 35 Pa  
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio  
**FORSBERG MFG CO 125 SEAVIEW AV BRIDGEFORD 1 CONN**

Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Huther Bros Saw Mfg Co 1290 University Av Rochester 7 NY

Jones Superior Machine Co 1272 W North Av Chicago 22 Ill  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
Mattison Machine Wks 545 Blackhawk Park Av Rockford Ill

Media Machine Wks Inc 620 Park Av Media Pa

Muskegon Machine Co S Robinson Av Newburgh NY  
Newman Machine Co Inc 507 Jackson Greensboro NC

Oliver Machinery Co 1025 Clancy Av NE Grand Rapids 2 Mich  
Power (L) & Co Inc 2815 Oakford Philadelphia 46 Pa  
Sandvik Saw & Tool Corp 47 Warren New York 7 NY

Shopmaster Inc 1214 Third St S Minneapolis Minn  
**SIMONDS SAW & STEEL CO 470 MAIN FITCHBURG MASS**  
Wallace (J D) & Co 136 S California Av Chicago 12 Ill

Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal  
Wilson Saw Div Media Machine Wks 620 Park Av Media Pa  
Yates-American Machine Co 701 Fourth Beloit Wis

### ▶ SAWS, SCROLL

**AMERICAN FLOOR SURFACING MACHINE CO 515 S ST CLAIR TOLEDO 3 OHIO**  
Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill

Parker Mfg Co 149 Washington Worcester Mass  
**ROCKWELL MFG CO DELTA POWER TOOL DIV 400 N LEXINGTON AV PITTSBURGH 8 PA**

Shopmaster Inc 1214 Third St S Minneapolis Minn  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

### ▶ SAWS, SWING

Beach Mfg Co Mill & Boyer Montrose Pa  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
Corinth Machinery Co 480 Tate Corinth Miss  
Corley Mfg Co Clifton Hills Chattanooga Tenn  
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio

Filet & Stowell Co 147 E Becher Milwaukee 1 Wis  
Heston & Anderson Div St Paul Foundry & Mfg Co 601 W Kirkwood Fairfield Iowa

Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Holmes (E & B) Machinery Co Inc 59 Chicago Buffalo 4 NY  
Jones Superior Machine Co 1272 W North Av Chicago 22 Ill

Lane Mfg Co Montpelier Vt  
**MASTER WOODWORKER MFG CO INC 409 E FORT DETROIT 26 MICH**  
Newman Machine Co Inc 507 Jackson Greensboro NC

Shopmaster Inc 1214 Third St S Minneapolis Minn  
Western Saw Wks 1844 W Washington Blvd  
Los Angeles Cal

Woods (S A) Machine Co Damrell & Alger Boston 27 Mass  
Yates-American Machine Co 701 Fourth Beloit Wis

### ▶ SAWS, TILTING ARBOR, TABLE

American Woodworking Machinery Co 100 Liberty Hackettstown NJ  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**

Beach Mfg Co Mill & Boyer Montrose Pa  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
C H & E Mfg Co 3849 N Palmer Milwaukee 12 Wis

Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
**DEWALT INC BOX 540 LANCASTER PA**  
Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio

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**HYDROTHERM**  
transfers more  
heat in less  
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... long life  
cast iron heat  
exchanger,  
factory assembled  
and wired,  
with all controls  
enclosed in  
deluxe jacket.



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quick response,  
no override.  
Guarantees  
trouble-free,  
silent,  
automatic  
heating.



**PRICE**

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everyone  
can enjoy  
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hot water heat.  
**HYDROTHERM**  
costs less to buy...  
less to install...  
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Fischer Bracket Co Hyde Park 36 Mass  
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Marvel Equipment Co 1055 Bowen Oshkosh Wis  
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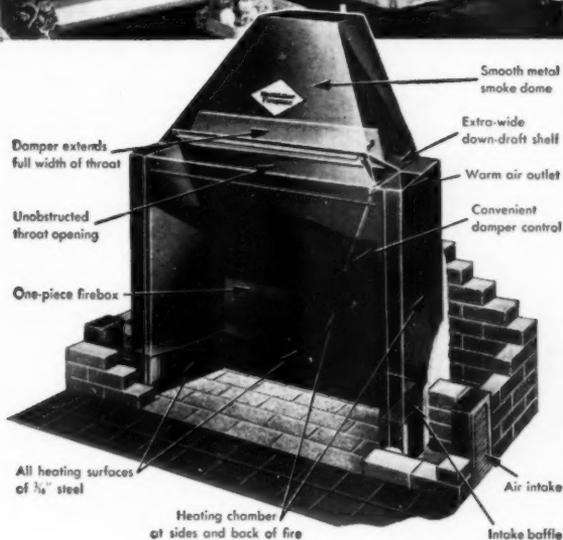
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Easier way to build a  
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that will not smoke



Build it around the  
**HEATILATOR UNIT**

The Heatilator unit makes it easier to build any fireplace correctly. That's because the unit is a scientifically designed steel form that does away with guesswork and rule-of-thumb methods. You know *in advance* that the fireplace will work properly—will not smoke! At the same time, it provides a source of warm air that is gently circulated to all parts of the room.

**Saves Time and Labor**

All vital parts such as firebox, throat, down-draft shelf, damper and smoke dome are built in the unit. That saves construction time—the fireplace goes up faster with less masonry to lay. Further, it puts no limit on mantel design nor choice of materials.

**Satisfies Home Buyers**

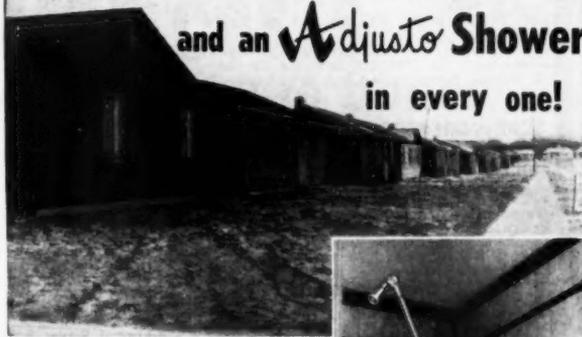
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in every one!



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Why 3 out of 4  
Gary Builders  
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**MAKES HAPPY HOME OWNERS . . .** An Adjusto meets needs of the entire family. A fine needle spray full height shower for father, a leisurely tub bath and shampoo for mother and it's adjustable to any height for children.

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Duro Metal Prods Co 2649 N Kildare Av Chicago 39 Ill  
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Millers Falls Co Wells & Devon Greenfield Mass  
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Ruzol Co 176 Franklin New York 13 NY  
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Bristol Co Waterbury 20 Conn  
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National Guard Prods 757 Madison Memphis 7 Tenn  
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Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Parker-Kalon Corp 200 Varick New York 14 NY  
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill  
Reed & Prince Mfg Co 1 Duncan Av Worcester 1 Mass  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Rockford Screw Prods Co 2501 9th Rockford Ill  
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo  
**SOUTHERN SCREW CO 118 RICKERT STATESVILLE NC**  
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DeJong Inc 34-23 36th Long Island City 1 NY  
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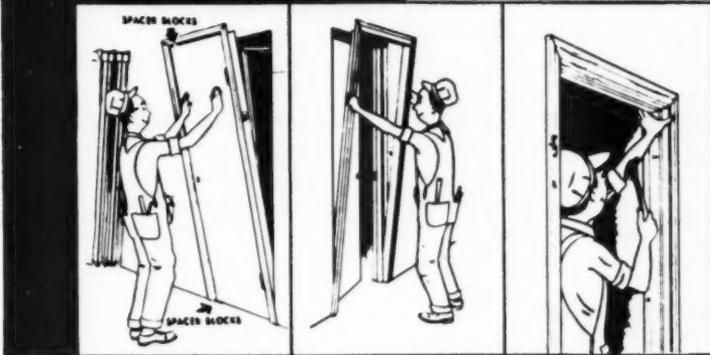
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**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**

ANY CARPENTER  
CAN INSTALL A  
READY HUNG DOOR  
IN 20 MINUTES  
OR LESS

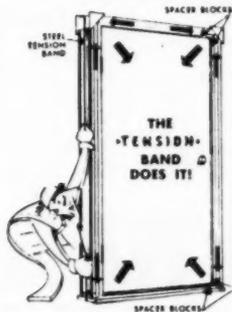
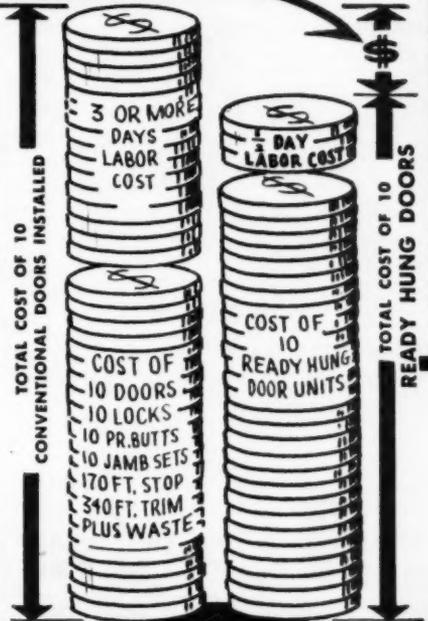
# COMPARE COSTS ON A HOUSE WITH 10 DOORS

The *SAVING* is in  
the *LABOR* of *INSTALLATION*



## SLIP THE HALVES TOGETHER IN THE OPENING AND NAIL IT TO THE HOUSE

- Fasteners on mitre joints in the trim keep mitres tight indefinitely.
- Doors conform to the Commercial Standard for the style used. Units are furnished left and right, with 1 3/4" inside doors in all standard sizes.
- Butts or hinges are 3 1/2 x 3 1/2, full mortise type. READY HUNG DOOR units are completely assembled with all hardware installed except door knobs.
- The READY HUNG DOOR manufacturer in your territory carries in stock standard units with the trim pattern, specie, and hardware popular in your area.
- Look identical to conventional doors when installed.



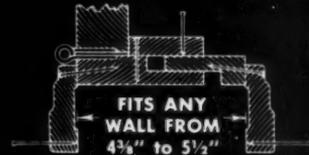
## CRATED FOR DELIVERY IN PERFECT CONDITION

Tension in the steel band exerts equalized pressure (indicated by the arrows) at the corners to draw the frame in tight contact with the rigid door. Frame joints and mitres are therefore rigidly held square and tight by the door itself.

Spacer blocks between

the door and frame serve a dual purpose: (1) They block the frame around the door during shipment, and, (2) Are used to maintain proper door clearances while the door is being installed. Faces are protected by cardboard when shipped by common carrier.

ADJUSTABLE JAMB  
FITS ANY WALL  
IRREGULARITIES



FORM NO.  
21454-1

Look for this  
Trade Mark\*



**Ready  
Hung  
DOORS**

PAT. NO. 2489029  
\*TD. MK. REG. U. S. PAT. OFF.

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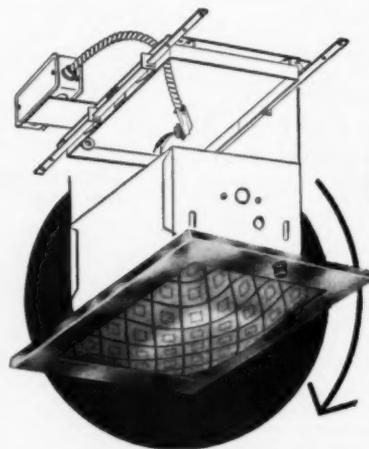
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Childers Mfg Co 3620 W 11th Houston 8 Tex

KAWNEER CO 1105 N FRONT NILES MICH

Lifetime Industries Inc 629 Bergman Louisville 3 Ky

Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind

Potts-Farrington Co 1224 Cherry Philadelphia 7 Pa

Protective Prods Co 2701 NE University Av Minneapolis 18 Minn

Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa

**SIDING, ASBESTOS-CEMENT**

Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston Tex

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

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### Asbestos-Cement Siding...

Fireproof, permanent, smooth or textured finish.

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CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO

JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY

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NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY

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CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA

FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY

Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind

Logan-Long Co 6600 S Central Av Chicago 38 Ill

Old American Roofing Mills 7600 Truman Rd Kansas City Mo

RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

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Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

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CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO

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Exiner (Alexander) Co Merchandise Mart Chicago 54 Ill

FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY

Globe Siding Prods Co 2207-51 Schrage Av Whiting Ind

JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY

Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa

Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill

Logan-Long Co 6600 S Central Av Chicago 38 Ill

Lehon Co 4425 S Oakley Av Chicago 9 Ill

Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind

Nelson (B F) Mfg Co 401 NE Main Minneapolis Minn

Old American Roofing Mills 7600 Truman Rd Kansas City Mo

Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY

Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY

Protective Prods Co 2701 NE University Av Minneapolis 18 Minn

RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

Tamko Asphalt Prods Inc 601 N High Joplin Mo

Texas Co 135 E 42nd New York 17 NY

UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

Weatherpanel Sidings Inc 285 Chandler Buffalo 7 NY

**SIDING, HARDBOARD**

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Forest Fiber Prods Corp Box 68 Forest Grove Ore

MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL

Meadows (W R) Inc 2 Kimball Elgin Ill

NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY

UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY

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Armco Steel Corp 703 Curtis Middletown Ohio

BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO

Bethlehem Steel Co 701 E Third Bethlehem Pa

CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL

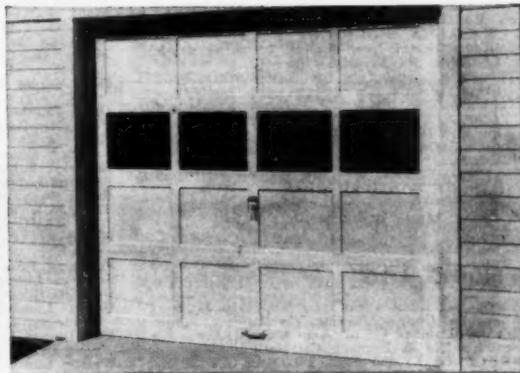
Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio

Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal

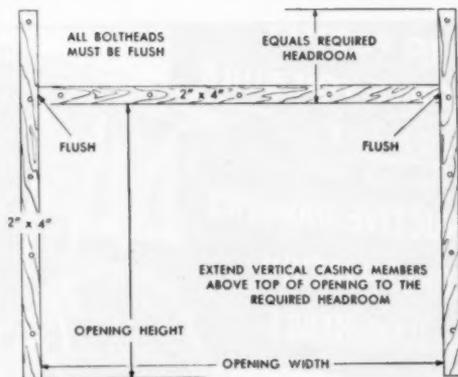
Your lumber or building material  
dealer is headquarters for the

# Sheffield

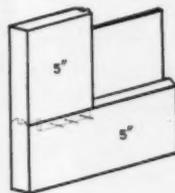
OVERHEAD DOOR



## BUILDER DATA ON SHEFFIELD DOORS



PREPARING OPENING



DOOR SECTION  
CONSTRUCTION



WEATHER-TIGHT CLOSING

**SIZES:** The Sheffield Door is available in 8 x 7, 9 x 7 and 16 x 7 sizes with slight variations possible.

**SPACE REQUIREMENTS—STANDARD:**

Headroom—14" (12 $\frac{1}{4}$ " Min.)  
Sideroom—3 $\frac{1}{2}$ "      Center Post—7"  
Backroom—Door ht. plus 14" (12" Min.)

**HARDWARE:** By Barber-Colman Company.

**DOOR SECTIONS:** Rails and stiles are best quality grade Douglas Fir Millwork. All joints are mortise ten-

oned, glued and steel pinned for reinforcing. Panels are top-grade (AB) Douglas Fir Exterior Plywood. Interlocking rabbet seals the sections when closed.

**FEATURES AND GENERAL DESCRIPTION:** The Sheffield is a low-priced residential garage door with high-priced features. Track design for wedge-tight closing with easy-operating heavy-duty ball bearing rollers. Self-latching on both sides of door with well-designed chromium-plated handle and lock.

**See your lumber or building material dealer or write**

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 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Fries & Son Steel Construction & Engineering Co Covington Ky  
 Granite City Steel Co 20th & Madison Granite City Ill  
 Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 Klauer Mfg Co 9th & Washington Dubuque Iowa  
 LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
 Macomber Inc 1925 Tenth Canton Ohio  
 Mid States Steel & Wire Co Crawfordville Ind  
 Newport Steel Corp 9th & Lowell Newport Ky  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM PL DAVENPORT IOWA**  
 Reeves Steel & Mfg Co 6 Iron Av Dover Ohio  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
**ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN**  
 Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga  
 Tennessee Coal & Iron Div United States Steel Corp Fairfield Ala  
 Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
 Tiffin Art Metal Co Tiffin 16 Ohio  
 United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
**UNITED STEEL FABRICATORS INC 333 GASCHÉ WOOSTER OHIO**  
 Wheeling Corrugating Co Wheeling W Va  
 Wheeling Steel Corp Wheeling W Va

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 Anaconda Copper Mining Co Bonner Mont  
 Bradley Lumber Co of Ark Warren Ark  
 Brown's Tie & Lumber Co McCall Idaho  
**BRUCE (E L) CO 1848 THOMAS AV BOX 497 MEMPHIS 1 TENN**  
 Canadian Western Lumber Co Ltd 15 King Edward Av New Westminster BC Canada

Christiansen (C M) Phelps Wis  
 Collins Pondosa Lumber Co Pondosa Ore  
 Comfort (George N) Lumber Co Cleveland Ohio  
**CONNOR LUMBER & LAND CO 31 THOMAS WAUSAU WIS**  
 Contact Lumber Co 719 Corbett Bldg Portland Ore  
 Cook County Lumber Co 290 E 130th Chicago 28 Ill  
 Cummer Sons Cypress Co Barnett Bldg Jacksonville Fla  
 Firpine Prods Co Box 546 Oswego Ore  
 Fleisheil Lumber Co 4243 Duncan Av St Louis 19 Mo  
 Frost Lumber Industries Drawer 1125 Shreveport 90 La  
 Goodman Lumber Co Goodman Wis  
 Hill-Behan Lumber Co 6515 Page St Louis 8 Mo  
 Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
 Johnson (C D) Lumber Co Div Georgia-Pacific Plywood Co American Bank Bldg Portland Ore  
 Kennedy (J G) Lumber Co Seattle 1 Wash  
 Kent Lumber Co San Francisco 4 Cal  
 Kinzua Pine Mills Co Kinzua Ore  
 Mauk Seattle Lumber Co 3935 University Way Seattle 5 Wash  
 Michigan Maple Block Co Petoskey Mich  
 Miller (E C) Cedar Lumber Co Aberdeen Wash  
 New Mexico Timber Co Box 988 Albuquerque NM  
 Ozan Lumber Co Prescott Ark  
 Pickering Lumber Corp Standard Cal  
 Rainy Lake Lumber Co Ltd 111 W Washington Chicago 2 Ill  
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 Rustic Furniture Co Inc Williamstown NJ  
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 Soderberg (Carl E) Lumber Co Spokane 8 Wash  
 Southern Pine Lumber Co Texarkana Tex  
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 Walton Lumber Co Everett Wash  
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**WEYERHAEUSER SALES CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

Winton (A K) Lumber Co Box 150 Compton Cal  
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Insel-Plastics Inc 2120 W 138th Blue Island Ill

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Aetna Plywood & Veneer Co 1731 N Elston Chicago 22 Ill  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
 Midwest Plywood Co 10101 Lyndon Detroit 21 Mich  
**OLYMPIC STAINED PRODS CO 1118 LEARY WAY SEATTLE WASH**  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**US MENGEL PLYWOODS INC BOX 1612 LOUISVILLE 1 KY**  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**

► **SIDING, UNDERLINER, INSULATING, BLANKET**

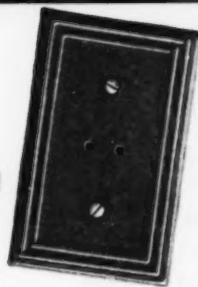
Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

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 Thermobond Distributors Inc 820 W Wilbeth Rd Akron 14 Ohio  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

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Specify and Install  
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 WALL SOCKETS!



- Made for television!
- Low cost!
- Flush mount in almost any type wall!
- Available in types for every installation requirement!

MOSLEY Cat. F-1PK TV Wall Socket for single lead-in. Supplied with attractive ivory or brown face plate, mating plug and instructions. List Price, only \$1.95.

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 MOSLEY TV Conduit, Plaster Rings, Roof and Wall Lead-in Entrance Devices, 3-Way Antenna Switches, 2-Set Couplers, etc.

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FOR LIFE...  
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 Eddy Rd & Taft Av Cleveland 8 Ohio  
 Engineers Plywood Prods Co Box 1326 Tacoma Wash  
 Erco Mfg Co 2368 N Elston Av Chicago 14 Ill  
 Flexlume Corp 1464 Main Buffalo 9 NY  
 Geneco Tool Div 1830 N Kostner Av Chicago 39 Ill  
 Johnston Glass Co Inc Hartford City Ind  
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 Economy Silo & Mfg Co Frederick Md  
 Fairfield Engineering Co 324 Barnhart Marion Ohio  
 Fleming Mfg Co Inc 4985 Fyler Av St Louis 9 Mo  
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 Harder Silo Co Inc Cobleskill NY  
 Illinois Wire & Mfg Co Box 1396 Joliet Ill  
 Independent Silo Co 752 Vandalia St Paul Minn  
 Johnson & Carlson 848 Eastman Chicago 22 Ill  
 Johnson (C S) Co Box 71 Champaign Ill  
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 Marietta Concrete Corp 1949 Register Av Marietta Ohio  
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... with lightweight,  
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Coppes Inc Nappanee Ind  
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL

ELJER CO FORD CITY PA  
ELKAY MFG CO 1874 34TH AV CHICAGO 50 ILL  
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Excel Metal Cabinet Co Inc 1938 Johnson Jamestown NY  
HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL

IXL Furniture Co Goshen Ind  
KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH  
KOHLER CO 44 HIGH KOHLER WIS  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill

Midwest Mfg Co Galesburg Ill  
MULLINS MFG CORP UNIVERSITY ST WARREN OHIO  
Murray Corp of America 1900 S Washington Seranton 2 Pa  
MUTSCHLER BROS CO 302 S MADISON NAPPANEE IND

Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa  
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Just Mfg Co 9233 King Av Franklin Park Ill  
LEGION STAINLESS SINK CORP 21-07 40TH AV LONG ISLAND CITY 1 NY  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
Midwest Mfg Co Galesburg Ill

Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa  
Paragon Utilities Corp 50 Van Dam Brooklyn NY  
Richmond Engineering Co 7th & Hospital Richmond Va  
Roberts & Mander Corp 237 Jacksonville Rd Hatboro Pa

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Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
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ELJER CO FORD CITY PA  
Enamel Prods Co Korok Div & Tepco Div Eddy Rd & Taft Av Cleveland 8 Ohio

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GENERAL CHEF 4536 E DUNHAM LOS ANGELES 23 CAL

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Lyon Metal Prods Inc 25 Montgomery Aurora Ill

Midwest Mfg Co Galesburg Ill  
MULLINS MFG CORP UNIVERSITY ST WARREN OHIO

Murray Corp of America 1900 S Washington Seranton 2 Pa  
Palley Mfg Co 1101-07 W North Av Pittsburgh 33 Pa

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Devoe & Raynolds Co Inc 787 First Av New York 17 NY

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Farwell Ozmur Kirk & Co 108 Fairfield Av W St Paul 1 Minn  
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn

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Hayes Adhesives Co 4159 Union Blvd St Louis 15 Mo

LePage's Inc 40 Swanson Gloucester 41 Mass  
Lowe Bros Co 436 E 3rd Dayton 2 Ohio  
Miner-Hillard Milling Co 826 Second National Bank Bldg Wilkes Barre Pa

Monsanto Chemical Co Western Div 911 Western Av Seattle 4 Wash  
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY

Patent Ceramics Co Bradford St Geneva NY  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

Pyramid Process Co Inc East Rochester NY  
Reardon Co 7501 Page Av St Louis 14 Mo  
Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill

Siak (R J) Co New London Conn  
Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
Tamma Industries Inc 228 N LaSalle Chicago 1 Ill

Truscon Laboratories Div Devoe & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich

United Gilsonite Laboratories 1396 Jefferson Av Seranton 2 Pa  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Wesco Waterpaints Inc Maple St Matteson Ill

## ► SKIDS & PALLETS

Albany Corrugated Container Corp 481 S Saratoga Cohoes NY  
ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS

Carr & Moehl Co 301 SW 9th Des Moines 9 Iowa  
Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich

Gary Pioneer Steel Corp Gary Ind

GEORGIA-PACIFIC PLYWOOD CO 600 N CAPITOL WAY OLYMPIA WASH

Lansing Co 603 N Cedar Lansing 3 Mich  
Lewis-Shepard Prods Inc 125 Walnut Water-town 72 Mass

Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio

Service Canter & Truck Co 540 N Brown-wood Av Albion Mich  
West Bend Equipment Corp 299 S Water West Bend Wis

## ► SKYLIGHTS

Allied Synthetic Co 4654 DeSoto San Diego 9 Cal  
ALSYNITE CO OF AMERICA 4654 DESOTO SAN DIEGO 9 CAL

American Sheet Metal Wks 325 N Alexander New Orleans La  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

Corralux Div Libbey-Owens-Ford Glass Co 410 Holmes Rd Box 29026 Houston 25 Tex  
Geneco Tool Div 1830 N Kostner Av Chicago 39 Ill

Giehner Inc 1900 Kendall NE Washington 2 DC  
International Molded Plastics Inc 4387 W 35th Cleveland 9 Ohio

Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
KIMBLE GLASS CO BOX 1035 TOLEDO 1 OHIO

Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa  
Plymold Co 2707 Tulare Av Burbank Cal

RESOLITE CORP ZELIENOPLE PA  
Richards (J Merrill) 25 Huntington Av Boston 16 Mass

ST PAUL CORRUGATING CO SOUTH END WABASHA ST BRIDGE ST PAUL 1 MINN

Stewart Iron Wks 1551 Stewart Block Cincinnati 1 Ohio  
Tiffin Art Metal Co Tiffin 16 Ohio  
Van Noorden (E) Co 100 Magazine Boston 19 Mass

Wasco Flashing Co 87 Fawcett Cambridge Mass  
Willis Steel Corp Box 149 Galesburg Ill

## ► SLATE

Conco Building Prods Inc Box 111 Mendota Ill  
Evergreen Slate Co Inc 9 Pine Granville NY  
North Bangor Slate Co Bangor Pa  
Structural Slate Co East PenArgyle Pa

## ► SLIDES, EXTENSION DRAWER

Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
Knappe & Vogt Mfg Co 658 Richmond NW Grand Rapids 4 Mich

## ► SNIPS, TINNER'S

Atlas Shear Co Bridgeport Conn  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

Bridgeport Hdwe Mfg Corp 461 Iranistan Av Bridgeport 5 Conn  
Henkel-Clauss Co 319 S Arch Fremont Ohio

Krauter & Co Inc 581 18th Av Newark NJ  
Morgan-Wightman Supply Co 1541 Salzman Av St Louis Mo

P & C Hand Forged Tool Co Portland 22 Ore  
Peck Stow & Wilcox Co Mill St Southington Conn  
SARGENT & CO 45 WATER NEW HAVEN 9 CONN

Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ

## ► SOCKETS, STUDDING

Sterling Foundry Co Box 457 Sterling Ill  
WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA

## ► SOCKETS, WIRE ROPE

American Cable Div American Chain & Cable Co Inc E Ross & Thomas Wilkes-Barre Pa

AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO

Eagles Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY  
Roebbling (John A) Sons Corp Broad & Neroni Trenton 2 NJ

Upson-Walton Co 12500 Elmwood Av Cleveland 11 Ohio

## ► SOFTENERS, PUTTY

Barrett (William L) 34 School Bristol Conn  
Fletcher-Terry Co 437 South St Forestville Conn

Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Glaziers' Tool Mfg Corp 611 W Adams Chicago 6 Ill

Sta-Warm Electric Co 553 N Chestnut Ravenna Ohio  
Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
Sullivan Co 212 E Trigg Memphis 2 Tenn

### ► SOFTENERS, WATER

American Water Softener Co 4th & Lehigh Av Philadelphia 33 Pa  
Bard Mfg Co Bryan Ohio  
Calgon Inc 323 Fourth Av Pittsburgh Pa  
Clow (James B) & Sons 201-299 N Talman Av Chicago 80 Ill  
Commercial Paste Co Bottles at Michigan Columbus 8 Ohio  
CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL  
Culligan Inc 1657 Sherman Av Northbrook Ill  
Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio  
Elgin Softener Corp 142 N Grove Av Elgin Ill  
Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
Permutit Co 330 W 42nd New York 36 NY  
Reynolds-Shaffer Co 12100 Cloverdale Detroit 4 Mich  
RHEEM MFG CO 570 LEXINGTON AV NEW YORK 22 NY  
Solventol Chemical Prods Inc 15828 Second Av Detroit Mich  
Stokermatic Co 1610 Industrial Rd Salt Lake City Utah  
Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind  
Wedgewood Div Rheem Mfg Co Wells Av Newark Cal  
Worthington Corp 8 Second St Plainfield NJ

### ► SOLDER & MATERIALS

Belmont Smelting & Refining Wks 330 Belmont Av Brooklyn 7 NY  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
Division Lead Co 7742 W 61st Pl Summit Ill  
Hanchett Mfg Co 906 N State Big Rapids Mich  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
Kester Solder Co 4201 W Wrightwood Av Chicago 39 Ill  
Lake Chemical Co 3052 N Carroll Chicago 6 Ill  
Lenk Mfg Co 30 Cummington Boston 15 Mass  
Lux Co Inc 315 W Franklin Elkhart 2 Ind  
National Lead Co 111 Broadway New York 6 NY  
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio  
Wall (F) Mfg Co Grove City Pa  
Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich

### ► SPACKLING COMPOUNDS

COLORCRETE INDUSTRIES INC 24TH & OTTAWA HOLLAND 1 MICH  
Commercial Paste Co Bottles at Michigan Columbus 8 Ohio  
Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
Curtis Mfg & Asbestos Co 29 Lewis Wharf Boston 10 Mass  
Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
Muralo Co Inc 572 Richmond Ter Staten Island 1 NY  
National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Reardon Co 7501 Page Av St Louis 14 Mo  
Rutland Fire Clay Co Curtis Av Rutland Vt  
Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
Spurgeon (N B) Co 29 N Wacker Dr Chicago 6 Ill  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
Webb Prods Co 216 S "G" San Bernardino Cal  
Wesco Waterpaints Inc Maple St Matteson Ill

### ► SPIKES, CUT

Bethlehem Steel Co 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Bldg Denver 2 Colo  
Inland Steel Co 38 S Dearborn Chicago 3 Ill  
Wheeling Corrugating Co Wheeling W Va  
Wood (Alvin) Steel Co Ivy Rock Rd Conshohocken Pa

### ► SPLICERS, WIRE & FENCE

AMERICAN STEEL & WIRE DIV US STEEL CORP 1420 ROCKEFELLER BLDG CLEVELAND 13 OHIO  
Crescent Tool Co 200 Harrison Jamestown NY

KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL  
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill

### ► SPREADERS, FERTILIZER, LAWN & GARDEN

California Spray-Chemical Corp Lucas & Ortho Way Richmond Cal  
Doggett-Pfeil Co Springfield NJ  
Germain Seed & Plant Co 747 Terminal Los Angeles Cal  
Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
Masters Planter Co 350 North Benton Harbor Mich  
Midland Co 1200 W Rawson Av South Milwaukee Wis

### ► SPRINKLERS, AUTOMATIC SYSTEMS

Blaw-Knox Equipment Div Blaw-Knox Co Farmers Bank Bldg Pittsburgh 30 Pa  
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill  
EVERSPRAY DIV 2001-09 W CARROLL AV CHICAGO 12 ILL  
Robbins Lightning Protection Co 124 E Second Marysville Mo  
Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass

### ► SPRINKLERS, LAWN

Adams Co Box 268 Dubuque Iowa  
Adel Precision Prods Corp Van Owen & Cleon Burbank Cal  
Allen (W D) Mfg Co 566 W Lake Chicago 6 Ill  
Columbus Plastic Prods Inc 1625 W Mound Columbus 4 Ohio  
Everhot Prods Co 2001 W Carroll Av Chicago 12 Ill  
EVERSPRAY DIV 2001-09 W CARROLL AV CHICAGO 12 ILL  
Keystone Brass & Rubber Co Broad & Lehigh Av Philadelphia 32 Pa  
Melnor Metal Prods Co Inc 10-4 45th Av Long Island City 1 NY  
Scovill Mfg Co 100 Mill Waterbury Conn

### ► SQUARES, CARPENTER'S

Brown & Sharpe Mfg Co 235 Promenade Providence RI  
General Hdwe Mfg Co Inc 80 White New York 13 NY  
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH  
SARGENT & CO 45 WATER ST NEW HAVEN CONN  
SHARP'S MFG CO BOX 332 SALEM ORE

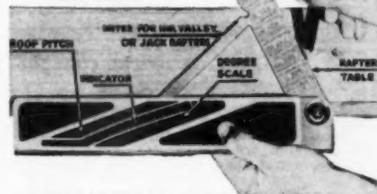
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STANLEY WKS 111 ELM AV NEW BRITAIN CONN  
Swanson Tool Co Oak Lawn Ill  
Union Tool Co 48 E River Orange Mass

### ► SQUARES, CARPENTER'S STEEL "T"

Dietsgen (Eugene) Co 2425 N Sheffield Av Chicago 11 Ill

GOLDBLATT TOOL CO 1924 WALNUT KANSAS CITY 8 MO

Keuffel & Esser Co 300 Adams Hoboken NJ  
NICHOLS MFG CO OTTUMWA IOWA  
Peck Stow & Wilcox Co Southington Conn  
Selsk (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
Southington Hdwe Mfg Co 168 Center Southington Conn  
STANLEY WKS 111 ELM NEW BRITAIN CONN  
Starrett (L S) Co 101 Crescent Athol Mass  
Union Tool Co 48 E River Orange Mass  
Woodmark Industries Inc 4601-A Highway Seven Minneapolis 16 Minn

### ► SQUARES, COMBINATION

Brown & Sharpe Mfg Co 235 Promenade Providence RI  
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH  
Millers Falls Co Wells & Devon Greenfield Mass  
Peck Stow & Wilcox Co Southington Conn  
STANLEY WKS 111 ELM AV NEW BRITAIN CONN  
Starrett (L S) Co 101 Crescent Athol Mass  
Union Tool Co 48 E River Orange Mass

### ► SQUARES, GLASS CUTTERS'

Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill  
LUFKIN RULE CO 1730 HESS AV SAGINAW MICH  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Sommer & Maca Glass Machinery Co 3600-08 S Oakley Av Chicago 9 Ill  
STANLEY WKS 111 ELM AV NEW BRITAIN CONN

### ► STAIN, CONCRETE FLOOR

Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass  
Flexrock Co 36th & Filbert Philadelphia 4 Pa  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA  
Rohlf & Co 918 N Western Av Los Angeles 27 Cal  
Smith (J Lee) & Co Inc 19 Jacob New York NY  
Sullivan Co 212 Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
Trucon Laboratories Div Devco & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass

### ► STAIN, SHINGLE

Abesto Mfg Corp 131 Wabash Michigan City Ind  
Alabastine Paint Prods 2629 Grand Av Chicago 12 Ill  
American Stained Shingle Co 381 Spruce Columbus 8 Ohio  
American Varnish Co 1140 N Branch Chicago 22 Ill  
Berry Bros Inc 211 Leib Detroit 7 Mich  
Breinig Bros Inc 223 Adams Hoboken NJ  
Briggs-Maroney Co Inc 85 Paris Everett 49 Mass  
Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
Canadian Forest Prods Ltd Hunting-Merritt Shingle Div Vancouver 14 BC Canada  
Carbolineum Wood Preserving Co 508 W Highland Av Milwaukee 3 Wis  
Chicago Bronze & Color Wks 2639 W Grand Chicago 12 Ill  
Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
Chi-Namel Paint & Varnish Co 1101 3rd S Minneapolis 15 Minn  
COLONIAL CEDAR CO 600 W NICKERSON SEATTLE 99 WASH  
Creu-Dipt Co Inc 936 Oliver North Tonawanda NY  
CUPRINOL DIV DARTWORTH INC 56 MAPLE SIMSBURY CONN  
Devco & Reynolds Co Inc 787 First Av New York 17 NY  
Douglas Fir Wholesalers Inc Marysville Wash  
DuPont (E I) de Nemours & Co Inc 1907 Market Wilmington 98 Del  
Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
Glidden Co Berea Rd at Madison Cleveland Ohio  
Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Johnston (R F) Paint Co 3925 Huston Av Cincinnati 12 Ohio  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill

Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros 436 E 3rd Dayton 2 Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio  
 Minnesota Paint Inc 1101 Third S Minneapolis 15 Minn  
 Moore (Benjamin) & Co 511 Canal New York 13 NY  
 Murphy Paint Div Interchemical Corp 224 McWhorter Newark NJ  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
 Olympic Stained Prods Co 1118 Leary Way Seattle 7 Wash  
 Parker (Ira) & Sons Oshkosh Wis  
 Patterson-Sargent Co 1325 38th Cleveland 14 Ohio  
 Perma Prods Co 5455 Broadway Cleveland 27 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Portland Shingle Co 9036 N Denver Av Portland 3 Ore  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Sargent-Gerke Co 323 W 15th Indianapolis 6 Ind  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Valentine & Co Inc 11 E 36th New York NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Woodworth Howland & Co 141 Federal Boston Mass  
**WEATHERBEST CORP 986 OLIVER NORTH TONAWANDA NY**  
 Wetherill (George D) & Co 113 Arch Philadelphia 6 Pa  
 Wood Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

#### ► STAIN, VARNISH

Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill  
 Glidden Co Berea Rd & Madison Cleveland 2 Ohio  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 Keystone Paint & Varnish Corp 71 Otsego Brooklyn 31 NY  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 McCloskey Varnish Co 7600 State Rd Philadelphia 36 Pa  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Moore (Benjamin) & Co 511 Canal New York 13 NY  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
 Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff & Grand Trunk Ry Detroit 11 Mich  
 Valentine & Co Inc 11 E 36th New York NY  
 Vita-Var Corp 10 Commerce Ct Newark NJ

#### ► STAIN, WOOD, OIL

Abesto Mfg Corp 131 Wabash Michigan City Ind  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 46 RECTOR NEW YORK 6 NY**  
 Breinig Bros Inc 223 Adams Hoboken NJ  
 Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
 Chicago Bronze & Color Wks 2639 W Grand Av Chicago 12 Ill  
 Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 Creco-Dipt Co Inc 986 Oliver North Tonawanda NY  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
 Elliott Paint & Varnish Co 4523 W Fifth Av Chicago 24 Ill

Foy Paint Co Inc 1775 Mentor Av Cincinnati 12 Ohio  
 Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill  
 Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
 Kyanize Paints Inc Second & Boston Everett 49 Mass  
 Lasting Prods Co Franklinton Rd Baltimore 23 Md  
 Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 Linseed Oil Prods 355 Del Monte Pasadena Cal  
 Lowe Bros Co 436 E Third Dayton 2 Ohio  
 Marietta Paint & Color Co Green & Acme Sts Marietta Ohio  
 Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
 Minnesota Paints Inc 1101 3rd S Minneapolis 15 Minn  
 Minnesota Platon Corp Platon Bldg Pipestone Minn  
 Moore (Benjamin) & Co 511 Canal New York 13 NY  
 National Lead Co 111 Broadway New York 6 NY  
 O'Brien Corp 101 N Johnson South Bend 21 Ind  
**OLYMPIC STAINED PRODS CO 1118 LEARY WAY SEATTLE 7 WASH**  
 Parker (Ira) & Sons Oshkosh Wis  
 Perma Prods Co 5455 Broadway Cleveland 27 Ohio  
 Phelan-Faust Paint Mfg Co 932 Loughborough Av St Louis Mo  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 Seidlitz Paint & Varnish Co 18th & Garfield Kansas City 10 Mo  
 Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
 Sonneborn (L) & Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
 Standard Toch Chemicals Inc 2600 Richmond Ter Staten Island 3 NY  
 Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY  
 Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff & Grand Trunk Ry Detroit 11 Mich  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
**WEATHERBEST CORP 986 OLIVER NORTH TONAWANDA NY**

#### ► STAIRS, STEEL

Artercraft Ornamental Iron Co 724 E Hudson Columbus Ohio  
 Badger Wire & Iron Wks Inc 2929 W Cleveland Av Milwaukee 7 Wis  
**CINCINNATI IRON FENCE CO 2101 FLORENCE AV CINCINNATI 6 OHIO**  
 Davis & Siehl Co 4632 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 Decatur Iron & Steel Co 2nd St W Decatur Ala  
 Fiske (J W) Iron Wks 78 Park Pl New York 7 NY  
**GENERAL BRONZE CORP STEWART AV LONG ISLAND CITY NY**  
 Grand Rapids Wire Prods Co 501 Front Av NW Grand Rapids 4 Mich  
 Harris Inc 200 E Long Columbus Ohio  
 Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex  
 International Steel Co 1321 Edgar Evansville 7 Ind  
 Logan Co 201 Cabel Louisville 6 Ky  
**MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE IND**  
 Metal Crafters E Av at 18th NE Cedar Rapids Iowa  
 St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn  
 Smith (F P) Wire & Iron Wks 2340 N Clybourn Av Chicago 14 Ill  
 Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio

#### ► STAIRS, WOOD, MATERIALS FOR

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo  
 Bradley Lbr Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 MEMPHIS 1 TENN**  
 Carpenter Oak Flooring Co & Hightower Box & Tank Co 906 N 40th Box 1449 Birmingham Ala  
 Cole Mfg Co Box 2657 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
 Farley & Loetscher Mfg Co Dubuque Iowa  
 Giustina Bros Lumber Co Box 989 Eugene Ore  
 Goshen Sash & Door Co E Purl Goshen Ind  
 Huttig Mfg Co Muscatine Iowa  
 Huttig Sash & Door Co 1100 S Vandeventer Av St Louis 10 Mo  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa

Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Memphis Oak Flooring Co Memphis Tenn  
 Morgan Co 520 Oregon Oshkosh Wis  
 Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
 Nickey Bros Inc 2700 Summer Av Memphis Tenn  
 Radford & Sanders Inc 612 W Pratt Baltimore Md  
 Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
 Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
 Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa  
 Southern Mill & Mfg Co Tulsa Okla  
 Spokane Sash & Door Co Spokane Wash  
 Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va

#### ► STAIRWAY, DISAPPEARING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 American Ladder Co 5509 NW 7th Av Miami 35 Ill  
**BESSLER DISAPPEARING STAIRWAY CO 1940 E MARKET AKRON OHIO**  
**CRAIG WOOD PRODS CO BRENNAN RD COLUMBUS GA**  
**EZ-WAY SALES INC ST PAUL PARK MINN**  
 Farley & Loetscher Mfg Co Dubuque Iowa  
**FOLDAWAY STAIRWAY CO INC 813 SEABOARD PORTSMOUTH VA**  
 Goshen Sash & Door Co E Purl Goshen Ind  
 Huntington Industries Inc 2368 Prospect Memphis Tenn  
 Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
 Marco Stairways 1695 N Cleveland Av St Paul 8 Minn  
 Marschke Co Marco Stairways 1695 N Cleveland Av St Paul 8 Minn  
 Mott Bros Co 907 S Main Rockford Ill  
 Newark Ladder & Bracket Co 17 Walnut Av Clark (Rahway) NJ  
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 400 N. First St. Nashville 7, Tenn.

Richbilt Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio  
 Roach & Musser Co Muscatine Iowa  
 Wel-Bilt Prods Co Box 95 Memphis 1 Tenn

#### ► STAKES, SURVEYORS

Brooks-Scanlon Inc Bend Ore  
**IFFKIN RULE CO 1730 HESS AV SAGINAW MICH**

#### ► STAPLERS & STAPLES

Acme Staple Co 1643 Haddon Av Camden 3 NJ  
 Acme Steel Co 2840 Archer Av Chicago 8 Ill  
**ARROW FASTENER CO INC 1 JUNIUS BROOKLYN 12 NY**  
 Atlas Tack Corp Fairhaven Mass  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bethlehem Steel Co Inc 701 E Third Bethlehem Pa  
 Bostitch Inc 1101 Mechanic Westerly RI  
 Brower Mfg Co Box 251 Quincy Ill  
 Burgess Fastening Co 1220 W 9th Cleveland 13 Ohio  
 Consolidated Wire Specialties Co 150 Broadway New York NY  
 Continental Steel Corp Kokomo Ind  
 Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
 Crofoot Mfg Co 217 Evergreen Mount Prospect Ill  
**FASTENER CORP 860 W FLETCHER CHICAGO 14 ILL**  
 Fir-Tex Insulating Board Co U S Nat'l Bank Bldg Portland Ore  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO SA**  
**HANSEN (A L) MFG CO 5637 N RAVENSWOOD AV CHICAGO 40 ILL**  
 Heller Co 2135 Superior Av Cleveland 14 Ohio  
 Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio  
 Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY  
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Larson (Charles O) Co Sterling Ill  
 Markwell Mfg Co 200 Hudson New York 13 NY

National Screw & Mfg Co 2440 E 75th Cleveland 4 Ohio  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Red Tiger Prods Inc 20 N Wacker Dr Chicago 6 Ill  
 Saranac Machine Co Benton Harbor Mich  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Shelton Tack Co 103 Canal Shelton Conn  
**SPOTNAILS INC 1527 LYONS EVANSTON ILL**  
 Tennessee Coal & Iron Div US Steel Corp  
 Fairfield Ala  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

### ▶ STAPLES, METAL FURRING OR LATH

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Columbia-Geneva Steel Div US Steel Corp  
 Russ Bldg San Francisco 6 Cal  
 Continental Steel Corp Kokomo Ind  
 Couch (S H) Co Inc 1 Arlington North Quincy Mass  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio

### ▶ STAYS, FENCE

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**

### ▶ STAYS, WINDOW

Air-Tite Window Stay Co Chicopee Mass  
 Ideal Brass Wks Inc 250 E Fifth St Paul 1 Minn  
 Noiseless Window Spring Co 307 5th Av New York 16 NY  
 Rockford Sash Holder Inc 203 S Main Rockford Ill  
 Vikre (J N) Co Inc 3016 14th Av S Minneapolis Minn

### ▶ STEEL, CONCRETE REINFORCING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
 Bethlehem Steel Co 701 E Third Bethlehem Pa  
 Carter-Waters Corp 2440 Pennway Kansas City 8 Mo  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div US Steel Corp  
 Russ Bldg San Francisco 6 Cal  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Dietrich Bros Inc 2700 Loch Haven Rd Baltimore Md  
 Inland Steel Co 38 S Dearborn Chicago 3 Ill  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 International Steel Co 1321 Edgar Evansville Ind  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
 Northwestern Steel & Wire Co Sterling Ill  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
 Republic Steel Corp Republic Bldg Cleveland 4 Ohio  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Soule Steel Co 1750 Army San Francisco 24 Cal  
**STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO**  
 Tennessee Coal & Iron Div US Steel Corp  
 Fairfield Ala  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

APRIL 1954

United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa  
 Webrib Steel Corp 120 Broadway New York 5 NY  
 Wheeling Corrugating Co Wheeling W Va  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ STEEL, MASONRY WALL REINFORCING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Carter-Waters Corp 2440 Pennway Kansas City 8 Mo  
**CEDAR RAPIDS BLOCK CO DUR-O-WAL DIV 656 12TH AV SW CEDAR RAPIDS IOWA**

### ▶ STEEL STRAPPING

Acme Steel Co 2840 Archer Av Chicago 8 Ill  
 Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
 Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
 Gerrard Steel Strapping Co 2939 W 47th Chicago Ill  
 Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY  
 Paine Co Fullerton & Westgate Rd Addison Ill  
 Roehlings (John A) Sons Corp Broad & Neroni Trenton 2 NJ  
 Sharon Steel Co Sharon Pa  
 Signode Steel Strapping Co 2600 N Western Av Dept 113 ABD Chicago 47 Ill  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
 West Leechburg Steel Co Breckenridge Pa

### ▶ STEEL, STRUCTURAL, MISC. SHAPES, ETC.

Allegheny Ludlum Steel Co Oliver Bldg Pittsburgh 22 Pa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Bennett Industries Inc Peotone Ill  
 Bethlehem Steel Co Inc 701 E Third Bethlehem Pa  
 Chehalis Brick & Tile Co Chehalis Wash  
 Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
 Columbia-Geneva Steel Div US Steel Corp  
 Russ Bldg San Francisco 6 Cal  
 Commercial Shearing & Stamping Inc 5767 W 65th Chicago 38 Ill  
 Consolidated Iron-Steel Mfg Co 1292 E 53rd Cleveland 14 Ohio  
 Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Decatur Iron & Steel Co 2nd St W Decatur Ala  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich  
 Haven Busch Co 503 Front Av Grand Rapids 4 Mich  
 Inland Steel Co 38 S Dearborn Chicago 3 Ill  
 International Steel Co 1321 Edgar Evansville 7 Ind  
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
 Macomber Inc 1925 Tenth Canton Ohio  
 Mahon (R C) Co Box 4666 Detroit 34 Mich  
**MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
 Republic Steel Corp Republic Bldg Cleveland 4 Ohio  
 Rigidized Metals Corp 687 Ohio Buffalo 3 NY  
 Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
 St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Stran-Steel Div Great Lakes Steel Corp Ecorse 29 Mich  
 Tennessee Coal & Iron Div US Steel Corp  
 Fairfield Ala  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
 United States Steel Corp 525 William Penn Pl Pittsburgh 30 Pa

### ▶ STOKERS

**AIRTEMP DIV CHRYSLER MOTORS 1610 WEBSTER DAYTON 1 OHIO**  
 American Engineering Co Kensington Sta Philadelphia 25 Pa  
 Anchor Div Stratton & Terstegge Co 300 Culbertson Av Box 311 New Albany Ind  
 Anchor Stove & Range Co New Albany Ind  
 Auburn Foundry Inc Auburn Ind  
 Brownell Co 321 N Findley Dayton 1 Ohio  
 Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**

Econ-O-Col Stoker Div Cotta Transmission Co 2340 11th Rockford Ill  
 Eddy Stoker Corp 4713-19 W North Av Chicago Ill  
 Electric Furnace-Man Inc Emmaus Pa  
 Erie City Iron Wks Erie Pa  
 Excelsior Stove & Mfg Co 534 S Front Quincy Ill  
 Hershey Machine & Foundry Co 1940 Miller Mannheim Pa  
 Holcomb & Hoke Mfg Co 1545 Van Buren Indianapolis Ind  
 Holland Furnace Co Holland Mich  
 Illinois Iron & Bolt Co 914 S Michigan Av Chicago 5 Ill  
**IRON FIREMAN MFG CO 3239 W 106TH CLEVELAND 11 OHIO**  
 Kol-Master Corp Oregon Ill  
 Peerless Mfg Corp 1400 W Ormsby Louisville 10 Ky  
 Pocahontas Fuel Co Inc 1 Broadway New York NY  
 Red Jacket Coal Sales Co 115 E Rich Columbus 15 Ohio  
 Sinker-Davis Co 230 S Missouri Indianapolis Ind  
 Smith (A O) Corp 3533 N 27th Milwaukee 1 Wis  
 Stokermatic Co 1610 Industrial Rd Salt Lake City Utah  
 Stokol Stoker Co Inc Indianapolis Ind  
 US Machine Corp Lebanon Ind  
 Viking Mfg Corp 1747 Chester Av Cleveland 14 Ohio  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Will-Burt Co 12 Ray Orville Ohio  
 Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal

### ▶ STONE, CRAB ORCHARD

Conco Bldg Prods Inc Box 111 Mendota Ill  
 Crab Orchard Stone Co Box 238 Crossville Tenn  
 Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn  
 Turner Bros Stone Co Box 27 Crossville Tenn

### ▶ STONE, GRANITE

Fletcher (H E) Co Box 448 West Chelmsford 2 Mass  
 North Carolina Granite Corp Mount Airy NC  
 Vermont Marble Co Proctor Vt

### ▶ STONE, LANNON

Conco Bldg Prods Inc Mendota Ill  
 Fond du Lac Stone Co Inc Hwy 41 S Box 148 Fond du Lac Wis  
 Halquist Lannon Stone Co Sussex Wis  
 Hrobsky Lannon Stone Service Lyons Wis

### ▶ STONE, LIMESTONE

Babcock Co Kanota Minn  
 Biesanz Stone Co Winona Minn  
 Bloomington Hoosier Stone Co Inc Box 116 S Rogers St Bloomington Ind  
 Bloomington Limestone Co 900 S Walnut Bloomington Ind  
 Conco Bldg Prods Inc Mendota Ill  
 Corson (G & W H) Inc Plymouth Meeting Pa  
 Empire Stone Co Bloomington Ind  
 Fluck Cut Stone Co Bloomington Ind  
 Fond du Lac Stone Co Inc Hwy 41 S Box 148 Fond du Lac Wis  
 Carl Furst Co Box 469 Bedford Ind  
 Georgia Marble Co Tate Ga  
 Hoadley (B G) Quarries Co Bloomington Ind  
 Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind  
 Mankato Stone Co Mankato Minn  
 Menke Stone & Lime Co Quincy Ill  
 Monon Stone Co Bloomington Ind  
 National Lime & Stone Co First National Bank Bldg Findlay Ohio  
 Oolitic (Victor) Stone Co Bloomington Ind  
 Quality Limestone Co 9835 W Lisbon Av Wauwatosa Wis  
 San-Tex Stone Quarry Inc 4130 Broadway San Antonio Tex  
 Taylor Stone Co McDermott Ohio  
 Texas Quarries Inc Box 91 Austin Tex  
 Woolery Stone Co Inc Box 49 Bloomington Ind

### ▶ STONE, MARBLE

Bauer (Frank P) Marble Co 4332 W Melrose Chicago Ill  
 Carthage Marble Corp Carthage Mo  
 Georgia Marble Co Tate Ga  
 Vermont Marble Co Proctor Vt

### ▶ STONE, PATCHING COMPOUNDS

Dugan Stone Patcher & Stain Prods 8115 Kenwood Av Chicago 19 Ill  
 Reardon Co 7501 Page Av St Louis 14 Mo

## ▶ STONE, PRECAST, SPLIT

Vermont Marble Co Proctor Vt  
"Split Rock" Machines & Process 13201 W  
Burlingame Milwaukee Wis

## ▶ STONE, QUARTZ

Garner Stone Co 7320 Paris Av S Birmingham Ala  
Weaver (C E) Stone Co Box 96 Reisterstown Md

## ▶ STONE, SANDSTONE

Briar Hill Stone Co Glenmont Ohio  
Cleveland Quarries Co Amherst Ohio  
Grand Canyon Quarries Inc Box 112 Ash Fork Ariz  
Jacobson Evans Stone Co Inc 3232 E 31st Tulsa Okla  
Pearl Sandstone Co RR 3 Fresno Ohio  
Summers Quarry Box 124 Lyons Colo  
Taylor Stone Co McDermott Ohio  
Western States Stone Co Box 312 Santa Clara Cal

## ▶ STONE, SYNTHETIC

Formstone Co 200 S Franklinton Rd Baltimore 23 Md  
Perma Stone Co 719 E Hudson Columbus Ohio  
Steffast Stone & Brick Corp 2613 N 47th Milwaukee 10 Wis  
Stonekote Corp 729 N 23rd Milwaukee 3 Wis

## ▶ STORE LAYOUT SERVICES

Baird (J Malcolm) Architectural Designer Mound Minn  
Geneco Tools 1830 N Kostner Av Chicago 39 Ill  
Grand Rapids Store Equipment Co 1340 Monroe Av NW Grand Rapids Mich  
Heller (W C) & Co 1050 Bryant Montpelier Ohio  
Kerr (Alexander H) & Co Inc 3440 Wilshire Blvd Suite 816 Los Angeles 5 Cal  
Sitka Spruce Lumber & Mfg Co 2500 Genesee Box 295 Kansas City 8 Mo  
Stanford Wood Prods Co Stanford Ky

## ▶ STRAIGHTEDGES

Atkins (E C) Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Brown & Sharpe Mfg Co 235 Promenade Providence RI  
Dietzen (Eugene) Co 2425 N Sheffield Av Chicago 6 Ill  
Glaziers' Tool Mfg Co 611 W Adams Chicago 6 Ill  
Hanchett Mfg Co 906 N State Big Rapids Mich  
Hoe (R) & Co Inc 910 E 138th New York 54 NY  
Keuffel & Esser Co 300 Adams Hoboken NJ  
LUPKIN RULE CO 1730 HESS AV SAGINAW MICH  
Peerless Level & Tool Co Sterling Ill  
RED DEVIL TOOLS 130 COIT IRVINGTON NJ  
Ridgely Trimmer Co Springfield Ohio  
Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill  
Starrett (L S) Co 101 Crescent Athol Mass

## ▶ STRAINERS, EAWE TROUGH

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN  
INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS  
METALBESTOS DIV WALLACE (WILLIAM) CO BELMONT CAL  
Northwest Metal Prods Inc 55 Spokane Av Seattle 4 Wash  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
US Cistern Filter Mfg Co Bloomington Ill  
Wheeling Corrugating Co Wheeling W Va  
Zurn (J A) Mfg Co Erie Pa

## ▶ STRAINERS, SEWER PIPE

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Vitriified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio  
Cleveland Steel Specialty Co Inc 3771 E 31st Cleveland 5 Ohio

Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Evans Pipe Co Uhrichville Ohio  
MAJESTIC CO HALL ST HUNTINGTON IND  
Robinson Clay Prods Co 2nd National Bank Bldg Akron 9 Ohio  
Swett (A L) Iron Wks 151 Glenwood Av Medina NY  
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio  
Vestal Mfg Co Box 152 Sweetwater Tenn

## ▶ STRAPPERS

Acme Steel Co 2840 Archer Av Chicago 8 Ill  
Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
Doig (W S) Inc 894 Manhattan Av Brooklyn NY  
Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
Gerrard Steel Strapping Co 2915 W 47th Chicago 32 Ill  
Independent Metal Strap Co Inc 230 3rd Brooklyn 15 NY  
Klein Mfg Co Burlington Iowa  
Sharon Steel Co Sharon Pa  
Signode Steel Strapping Co 2600 N Western Av Dept 113 ABD Chicago 47 Ill

## ▶ STRIPS, CORRUGATED FILLER

Fabricated Prods Co Water St West Newton Pa  
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

## ▶ STRIPS, DIVIDING

CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN  
Manhattan Terrazzo Brass Strip Co Inc Wilard Rd Box 187 Norwalk Conn

## ▶ STRIPS, FILLER ASPHALT

Fabricated Prods Co Water St West Newton Pa  
Meadows (W R) Inc 2 Kimball Elgin Ill  
Servicised Prods Corp 6051 W 65th Chicago 38 Ill

## ▶ STRIPS, SEALING

Keller Prods Inc 7039 Superior Av Cleveland Ohio  
Meadows (W R) Inc 2 Kimball Elgin Ill

## ▶ STUCCO

Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa  
Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
COLORCRETE INDUSTRIES INC 563 OT-TAWA AV HOLLAND 1 MICH  
Kenitex Corp 854 S Robertson Blvd Los Angeles 35 Cal  
Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
Sullivan Co Box 2606 Memphis 2 Tenn

## ▶ STUCCO, PRE-MIXED

Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
Carolina Perlite Co Box 158 Salisbury NC  
Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio  
COLORCRETE INDUSTRIES INC 563 OT-TAWA AV HOLLAND 1 MICH  
Made-Rite Prods Inc 2410 S 7th St Louis Mo  
Pyramid Co 5100 Manchester St Louis 10 Mo  
UNITED STATES GYPSUM CO 300 ADAMS CHICAGO 6 ILL

## ▶ STUCCO RETARDERS

Breinig Bros Inc 223 Adams Hoboken NJ  
Tamm Industries Inc 228 N LaSalle Chicago Ill  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

## ▶ SWEEPERS, INDUSTRIAL MACHINE

Johnson (S C) & Co Inc 1525 Howe Racine Wis  
Little Giant Prods Inc 1530 N Adams Peoria 3 Ill  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn

## ▶ SWIMMING POOLS

Landon Inc 5920 Sepulveda Blvd Box 10 Van Nuys Cal

## ▶ SWITCHES, ELECTRIC

All-Steel Equip Co Inc 245 John Aurora Ill  
ARROW-HART & HEGEMAN ELECTRIC CO HARTFORD CONN  
Bryant Electric Co 1421 State Bridgeport 2 Conn  
BULLDOG-ELECTRIC CO 7610 JOSEPH CAMPAU DETROIT 32 MICH  
Cutler-Hammer Inc 201 N 12th Milwaukee 1 Wis  
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY  
Federal Electric Prods Co 50 Paris Newark 6 NJ  
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT CONN  
GENERAL ELECTRIC CO TRUMBULL COMPONENTS DEPT PLAINVILLE CONN  
General Switch Corp Roebbling & N 9th Brooklyn 11 NY  
Hubbell (Harvey) Inc State & Bostwick Av Bridgeport 2 Conn  
Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
Micro Switch Div Minneapolis-Honeywell Regulator Co 1 E Spring Freeport Ill  
MOSLEY ELECTRONICS INC 8622 ST CHARLES ROCK RD ST LOUIS 14 MO  
Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY  
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal  
Soren Prods Corp Schiller Park Ill  
SUPERIOR ELECTRIC CO 83 LAUREL BRISTOL CONN  
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal  
WESTINGHOUSE ELECTRIC CORP BOX 565 PITTSBURGH 30 PA

## ▶ SWITCHES, MERCURY

Bryant Electric Co 1421 State Bridgeport 2 Conn  
Micro Switch Div Minneapolis-Honeywell Regulator Co 1 E Spring Freeport Ill  
MINNEAPOLIS-HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN  
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal

## ▶ SWITCHES, TIME, AUTOMATIC

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
IBON FIREMAN MFG CO 3239 W 106TH CLEVELAND 11 OHIO  
Lyon Rural Electric Co 2075 Moore San Diego 12 Cal  
Paragon Electric Co 1606 12th Two Rivers Wis  
Soren Prods Corp Schiller Park Ill  
Tork Clock Co Inc 1 Grove Mt Vernon NY

## ▶ SYSTEMS, GARAGE, GAS REMOVAL

National System of Garage Ventilation Inc 138 W William Decatur Ill

## ▶ TABLES, DRAFTING

Emrick Inc 2515 Miller Rd Kalamazoo Mich  
Hamilton Mfg Co 1316 18th Two Rivers Wis  
Keuffel & Esser Co 300 Adams Hoboken NJ  
Kinsley Mfg Co 748 E 82nd Cleveland 3 Ohio  
Kinzua Pine Mills Co Kinzua Ore  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
Post (Frederick) Co 155 E Ohio Chicago Ill  
Smith (H E) Co Maume at Harold Adrian Mich  
Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
Stacor Equipment Corp 768 E New York Av Brooklyn 3 NY  
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio

## ▶ TABLES, SAW

ATLAS PRESS CO 1973 N PITCHER KALAMAZOO MICH  
BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO  
Jones Superior Machine Co 1272 W North Av Chicago 23 Ill  
Sales Service Maching Tool 2363 University Av St Paul 4 Minn.

## ▶ TABLES, STEEL

Equipto Div Aurora Equipment Co John & Prairie Aurora Ill  
Heller (W C) & Co 1050 Bryant Montpelier Ohio  
Heyer Sales Co Box H Milledgeville Ill  
Lyon Metal Prods Inc 25 Montgomery Aurora Ill

Precision Equipment Co 3714 N Milwaukee  
Chicago 41 Ill  
**REMINGTON RAND INC 315 FOURTH AV  
NEW YORK 10 NY**  
Universal Steel Equipment Corp 32 47th Av  
New York 1 NY  
Warren (J D) Mfg Co Montpelier Ohio

### ▶ TACKERS, AUTOMATIC

Acme Staple Co 1643 Haddon Av Camden 3  
NJ  
**ARROW FASTENER CO 1 JUNIUS BROOK-  
LYN 12 NY**  
**BOSTITCH INC 1101 MECHANIC WEST-  
ERLY RI**  
Burgess Fastening Co 1220 W 9th Cleveland  
13 Ohio  
Crofoot Mfg Co 217 Evergreen Av Mount  
Prospect Ill  
**FASTENER CORP 860 W FLETCHER CHI-  
CAGO 14 ILL**  
Glaziers' Tool Mfg Co 611 W Adams Chicago  
6 Ill  
**HANSEN (A L) MFG CO 5037 N RAVENS-  
WOOD AV CHICAGO 40 ILL**  
Heller Co 2135 Superior Av Cleveland 14  
Ohio  
Markwell Mfg Co Inc 200 Hudson New York  
13 NY  
Saranac Machine Co Benton Harbor Mich  
**SPOTNAILS, INC 1527 LYONS EVANSTON  
ILL**

### ▶ TACKERS, HAMMER

**ARROW FASTENER CO 1 JUNIUS BROOK-  
LYN 12 NY**  
**BOSTITCH INC 1101 MECHANIC WEST-  
ERLY RI**  
**FASTENER CORP 860 W FLETCHER CHI-  
CAGO 14 ILL**  
Heller Co 2135 Superior Av Cleveland 14  
Ohio  
Markwell Mfg Co Inc 200 Hudson New York  
13 NY  
Red Tiger Prods Inc 20 N Wacker Dr Chi-  
cago 6 Ill

### ▶ TAMPERS

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
**BARCO MFG CO 500 HOUGH BARRINGTON  
ILL**  
Cleveland Trencher Co 20100 St Clair Av  
Cleveland 17 Ohio

Garden-Denver Co 100 Williamson Quincy Ill  
Master Vibrator Co 108 Davis Dayton Ohio  
Stortz (John) & Sons 210 Vine Philadelphia  
Pa  
Swett (A L) Iron Wks 151 Glenwood Av  
Medina NY  
Woodings-Verona Tool Wks 1947 Thomas Ve-  
rona Pa

### ▶ TANKS, FUEL OIL & GAS STORAGE

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Arceo Drainage & Metal Prods Inc 1939  
Arceo Av Middletown Ohio  
Badger Corrugating Co 1801-39 West Av 5  
LaCrosse Wis  
Beall Pipe & Tank Corp 12005 N Burgard  
Portland 3 Ore  
Bennett Industries Inc Peotone Ill  
Berger Furnace Mfg Co 5920 Centre Av  
Pittsburgh 6 Pa  
Birmingham Tank Div Ingalls Iron Wks Co  
Birmingham 6 Ala  
Black Sivalis & Bryson Inc 7500 E 12th  
Kansas City 26 Mo  
Celina Mfg Co Celina Ohio  
Clow (James B) & Sons 201-299 N Talman  
Av Chicago 80 Ill  
Delta Tank Mfg Co Inc Box 1469 Baton  
Rouge La  
Eaton Metal Prods Corp 1301 Willis Av  
Omaha 2 Nebr  
**IRVINGTON FORM & TANK CO 20 VESEY  
NEW YORK 7 NY**  
**KAUSTINE FURNACE & TANK CO 1492  
WASHINGTON AV PERRY NY**  
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Modern Welding Co 1500 E 12th Owensboro  
Ky

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CORP 195 W AUSTIN BUFFALO 7 NY**  
Richmond Engineering Co Inc 7th & Hospital  
Richmond 5 Va  
San-Equip Inc E Brighton & Glen Aves Syra-  
cuse 5 NY  
Seattle Boiler Wks Inc 5237 E Marginal Way  
Seattle 4 Wash  
Stover Steel Tank & Mfg Co 100 S Han-  
cock Freeport Ill  
Wedgewood Div Rheem Mfg Co Wells Av  
Newark Cal

### ▶ TANKS, HOT WATER, HEATING SYSTEM

Beall Pipe & Tank Corp 12005 N Burgard  
Portland 3 Ore  
**BELL & GOSSETT CO 8200 AUSTIN MOR-  
TON GROVE ILL**  
Clow (James B) & Sons 201-299 N Talman  
Av Chicago 80 Ill  
**DUNKIRK RADIATOR CORP 85 MIDDLE  
RD DUNKIRK NY**  
Eaton Metal Prods Corp 1301 Willis Av  
Omaha 2 Neb  
Richmond Engineering Co Inc 7th & Hospital  
Richmond 5 Va  
Seattle Boiler Wks Inc 5237 E Marginal Way  
Seattle 4 Wash  
Stover Steel Tank & Mfg Co 100 S Hancock  
Freeport Ill  
**THRUSH (H A) & CO PERU IND**  
Triplex Heating Specialties Co 242-68 Grant  
Peru Ind  
Waldorf Heater Co Philadelphia 2 Pa  
Wedgewood Div Rheem Mfg Co Wells Av  
Newark Cal

### ▶ TANKS, SEPTIC, CLAY

American Vitrified Prods Co 701 National  
City Bond Bldg Cleveland 14 Ohio  
Bowerston Shale Co Bowerston Ohio  
Cannelton Sewer Pipe Co 4th & Washington  
Cannelton Ind  
Denver Sewer Pipe & Clay Co 4501 Fox Box  
2329 Denver 1 Colo  
Evans Brick Co Uhrichsville Ohio  
Evans Pipe Co Uhrichsville Ohio  
Evans & Howard Sewer Pipe Co 5200 Man-  
chester Av St Louis 10 Mo  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Iowa Pipe & Tile Co Des Moines Iowa  
Junction City Clay Co 3334 Prospect Av  
Cleveland 15 Ohio  
Kaul Clay Mfg Co Spring St Box 128 To-  
ronto Ohio  
Lehigh Sewer Pipe & Tile Co Box 728 Fort  
Dodge Iowa  
Logan Clay Prods Co Logan Ohio  
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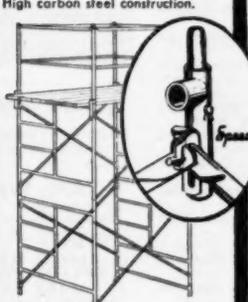
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Wisconsin Face Brick & Supply Corp 4485  
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### ▶ TANKS, SEPTIC, STEEL

Armo Drainage & Metal Prods Inc 1939  
Armo Av Middletown Ohio  
Beall Pipe & Tank Corp 12005 N Burgard  
Portland 3 Ore  
Celina Mfg Co Celina Ohio  
Clow (James B) & Sons 201-299 N Talman  
Av Chicago 80 Ill  
Dempster Mill Mfg Co 711 S 6th Beatrice  
Neb  
Eaton Metal Prods Corp 1301 Willis Av  
Omaha 2 Neb  
KAUSTINE FURNACE & TANK CO 1492  
WASHINGTON AV PERRY NY  
KNICKERBOCKER STAMPING CO PARK-  
ERSBURG VA VA  
Koven (L O) & Bros Inc 154 Ogden Av  
Jersey City 7 NJ  
Modern Welding Co 1500 E 12th Owensboro  
Ky  
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CORP 195 W AUSTIN BUFFALO 7 NY  
Richmond Engineering Co Inc 7th & Hospital  
Richmond 5 Va  
San-Equip Inc E Brighton & Glen Aves Syra-  
cuse 5 NY  
Stillwater Clay Prods Co 3334 Prospect Av  
Cleveland 18 Ohio  
Wedgewood Div Rheem Mfg Co Wells Av  
Newark Cal

### ▶ TANKS, SEPTIC, WOOD

Arrow Tank Co 16 Barnett Buffalo 15 NY  
Carey Industries 191 Manor Dr Syracuse  
3 NY  
Fleishel Lumber Co 4243 Duncan Av St  
Louis 10 Mo  
Johnson & Carlson 848 W Eastman Chicago  
22 Ill

### ▶ TANKS, STEEL, STORAGE

Aermotor Co 2500 W Roosevelt Rd Chicago  
8 Ill  
American Steel Wks 1211 W 27th Kansas  
City 8 Mo  
American Water Softener Co 4th & Lehigh  
Av Philadelphia 33 Pa  
Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
Beall Pipe & Tank Corp 12005 N Burgard  
Portland 3 Ore  
Black Sivalis & Bryson Inc 7500 E 12th  
Kansas City 26 Mo  
Bennett Industries Inc Peotone Ill  
Breyer Bros Whiting & Co Waupun Wis  
Butler Mfg Co 7400 E 13th Kansas City 26  
Mo  
Clow (James B) & Sons 201-299 N Talman  
Av Chicago 80 Ill  
Caldwell (W E) Co 2320 Brook Louisville 8  
Ky  
Delta Tank Mfg Co Inc Box 1469 Baton  
Rouge La  
Eaton Metal Prods Corp 1301 Willis Av  
Omaha 2 Neb  
Edwards Mfg Co 427 Culvert Cincinnati 2  
Ohio  
Farwell Ozmun Kirk & Co 108 Fairfield Av  
W St Paul 1 Minn  
Heller-Aller Co Napoleon Ohio  
Houston Blow Pipe & Sheet Metal Wks Box  
1692 Houston Tex  
Hudson (H D) Mfg Co 589 E Illinois Chicago  
11 Ill  
LaCrosse Steel Roofing & Corrugating Co  
227 Jay LaCrosse Wis  
Manitowoc Ship Building Inc Manitowoc Wis  
Modern Welding Co 1500 E 12th Owensboro  
Ky  
National Tube Div United States Steel Corp  
525 William Penn Pl Pittsburgh 30 Pa  
Richmond Engineering Co 7th & Hospital  
Richmond 5 Va  
St Paul Foundry & Mfg Co 500 Como Av  
St Paul 3 Minn  
Schlichter (E F) Co Inc 16 S Broad Phila-  
delphia 2 Pa  
Seattle Boiler Wks Inc 5237 E Marginal Way  
Seattle 4 Wash  
Siebring Mfg Co Peven St George Iowa  
Stover Steel Tank & Mfg Co 190 S Hancock  
Freeport Ill  
Wayne Home Equipment Co Inc 801 Glasgow  
Ft Wayne Ind  
Wedgewood Division Rheem Mfg Co Wells Av  
Newark Cal

### ▶ TANKS, WOOD, STORAGE

Aermotor Co 2500 W Roosevelt Rd Chicago  
8 Ill  
Arrow Tank Co Inc 16 Barnett Buffalo 15  
NY  
Atlantic Tank Corp 1207 Tonnelle Av Ber-  
gen NJ  
Baltimore Coopers Tank & Tower Co Os-  
tend & Creek Baltimore 30 Md

Black Sivalis & Bryson Inc 7500 E 12th  
Kansas City 26 Mo  
Caldwell (W E) Co 2320 Brook Louisville 8  
Ky  
Carey Industries 191 Manor Dr Syracuse  
3 NY  
Dempster Mill Mfg Co 711 S 6th Beatrice  
Neb  
Economy Silo & Mfg Co Frederick Md  
Fleishel Lumber Co 4243 Duncan Av St Louis  
10 Mo  
Johnson & Carlson 848 W Eastman Chicago  
22 Ill  
Kalamazoo Tank & Silo Co 508 Harrison  
Kalamazoo Mich  
M & M Woodworking Co 2301 N Columbia  
Blvd Portland 17 Ore  
New England Tank & Tower Co Everett  
Mass  
Pacific Wood Tank Corp 461 Market San  
Francisco 5 Cal  
Schlichter (E F) Inc 16 S Broad Philadel-  
phia 2 Pa  
Unadilla Silo Co Unadilla NY  
Union Lumber Co 620 Market Bldg San  
Francisco 4 Cal  
United States Challenge Tank Co 1441 N  
Kingsbury Chicago 22 Ill

### ▶ TAPE, FILTER, DRAIN TILE

Rie-Wil Co 1053 Union Commercial Bldg  
Cleveland 14 Ohio

### ▶ TAPE, INSULATING

Boston Woven Hose & Rubber Co Box 1071  
Boston 3 Mass  
Firestone Industrial Prods Co 1200 Fire-  
stone Pkwy Akron 17 Ohio  
JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY  
KEASBEY & MATTISON CO BUTLER AV  
AMBLER PA  
Okonite Co Passaic NJ  
Old American Roofing Mills Div Ruberoid Co  
500 Fifth Av New York 36 NY  
Paranit Wire & Cable Div Essex Wire Corp  
1601 Wall Fort Wayne 6 Ind  
Presstite Engineering Co 3900 Chouteau Av  
St Louis 10 Mo  
RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY  
United States Rubber Co 1230 Avenue of the  
Americas New York 20 NY  
Van Cleef Bros Inc 7800 S Woodlawn Av  
Chicago 19 Ill

### ▶ TAPE, MASKING

BEHR-MANNING CORP DIV NORTON CO  
1554 SEIFERT TROY NY  
Carborundum Co Buffalo Av Niagara Falls  
NY  
Fricke (J E) Co 49 N Front Philadelphia  
6 Pa  
Goodrich (B F) Co 500 S Main Akron 18  
Ohio  
Minnesota Mining & Mfg Co 900 Fauquier  
Av St Paul 6 Minn  
PITTSBURGH PLATE GLASS CO 632 FORT  
DUQUESNE BLVD PITTSBURGH 22 PA  
Rauschenberger (John) Co 423 N Plankinton  
Av Milwaukee 1 Wis  
Reardon Co 7501 Page Av St Louis 14 Mo  
Van Cleef Bros Inc 7800 S Woodlawn Av  
Chicago 19 Ill

### ▶ TAPE REPAIR OUTFIT

LUFKIN RULE CO 1730 HESS AV SAGI-  
NAW MICH  
WARREN-KNIGHT CO 136 N 12TH PHILA-  
DELPHIA 7 PA

### ▶ TAPE RING

LUFKIN RULE CO 1730 HESS AV SAGI-  
NAW MICH

### ▶ TAPE, WALLBOARD JOINT

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
CELOTEX CORP 120 S LASALLE CHI-  
CAGO 3 ILL  
CERTAIN-TEED PRODS CORP 120 E LAN-  
CASTER AV ARDMORE PA  
Economy Bias Binding Co 41-51 E 11th New  
York 3 NY  
Marvan Corp Box 219 West Hartford Conn  
NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY  
Ranburn Co Inc 112 Killewald Av Tona-  
wanda NY  
Reardon Co 7501 Page Av St Louis 14 Mo  
Spurgeon (N B) Co 29 N Wacker Dr Chi-  
cago 6 Ill  
Tamm Industries Inc 228 N LaSalle Chicago  
1 Ill  
UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL  
Wesco Waterpaints Inc Matteson Ill

### ▶ TAPE, WATERPROOF, WALLBOARD

BARRETT DIV ALLIED CHEMICAL &  
DYE CORP 40 RECTOR NEW YORK 6  
UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL

### ▶ TAPES, MEASURING

CARLSON & SULLIVAN INC 1617 S CALI-  
FORNIA AV MONROVIA CAL  
Chicago Steel Tape Co 7956 South Chicago  
Av Chicago 17 Ill  
Dietzgen (Eugene) Co 2425 N Sheffield Chi-  
cago Ill  
Economy Novelty & Printing Co 225 W 39th  
New York 18 NY  
EVANS & CO 400 TRUMBULL ELIZABETH  
NJ  
Graham (John H) & Co 105 Duane New  
York 8 NY  
JOB LOTS TRADING 53 VESEY NEW  
YORK NY  
Kouffel & Esser Co 300 Adams Hoboken NJ  
LUFKIN RULE CO 1730 HESS AV SAGI-  
NAW MICH  
MASTER RULE MFG CO INC 40 MUL-  
BERRY MIDDLETOWN NY  
Parisian Novelty Co 3510 S Western Av  
Chicago 9 Ill  
Post (Frederick) Co 333 W Lake Chicago  
Ill  
Roe (Justus) & Sons 1 Roe Ct Patchogue  
LI NY  
Starrett (L S) Co 101 Crescent Athol Mass  
Union Tool Co 48 E River Orange Mass  
WARREN-KNIGHT CO 136 N 12TH PHILA-  
DELPHIA 7 PA  
WHITE (DAVID) CO 315 W COURT MIL-  
WAUKEE WIS

### ▶ TAPES, SURVEYORS

EVANS & CO 400 TRUMBULL ELIZABETH  
NJ  
LUFKIN RULE CO 1730 HESS AV SAGI-  
NAW MICH  
Post (Frederick) Co 333 W Lake Chicago  
Ill

### ▶ TAPES, WOVEN

LUFKIN RULE CO 1730 HESS AV SAGI-  
NAW MICH  
Post (Frederick) Co 333 W Lake Chicago Ill

### ▶ TAPING MACHINES, DRYWALL

Ames Taping Tools Inc 1325 Elmer Belmont  
Cal  
Debs Decorators Old Middleton Rd Madison  
5 Wis  
UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL

### ▶ TAR, LIQUID

BARRETT DIV ALLIED CHEMICAL &  
DYE CORP 40 RECTOR NEW YORK 6 NY  
Horn (A C) Co Inc Tenth & 44th Av Long  
Island City 1 NY  
Koppers Co Inc Koppers Bldg Pittsburgh  
19 Pa  
Reilly Tar & Chemical Corp 1615 Merchants  
Bank Bldg Indianapolis 4 Ind

### ▶ TAR, PITCH

American Asphalt Roof Co 7514 E 15th Kan-  
sas City 3 Mo  
Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
BARRETT DIV ALLIED CHEMICAL &  
DYE CORP 40 RECTOR NEW YORK 6 NY  
BIRD & SON INC 47 WILSON EAST WAL-  
POLE MASS  
Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
Colorado Fuel & Iron Corp Continental Oil  
Bldg Denver 2 Colo  
FLINTKOTE CO 30 ROCKEFELLER PLAZA  
NEW YORK 20 NY  
JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY  
Koppers Co Inc Koppers Bldg Pittsburgh  
19 Pa  
Logan-Long Co 6600 S Central Av Chicago  
38 Ill  
Old American Roofing Mills 7600 Truman  
Rd Kansas City Mo  
Old American Roofing Mills Div Ruberoid  
Co 500 Fifth Av New York 36 NY  
Reilly Tar & Chemical Corp 1615 Merchants  
Bank Bldg Indianapolis 4 Ind  
RUBEROID CO 500 FIFTH AV NEW YORK  
36 NY  
Troyer Driveway Service 2157 S Park Av  
Buffalo 20 NY  
Tufereite Co Inc 552 Teachout Bldg Des  
Moines 9 Iowa

### ▶ TARPULINS

American Ladder Co 5500 NW 7th Av Miami  
38 Fla

American Tent & Awning Co 1132 Mission San Francisco 3 Cal  
 Angier Corp Fountain St Framingham Mass  
 Astrup Co 2937 W 25th Cleveland 13 Ohio  
 Bemis Bros Bag Co 408 Pine St Louis 2 Mo  
 Canvas Prods Co 2115 Locust St Louis 3 Mo  
 Canvas Specialty Co Box 937 Hartford Conn  
 Clifton Mfg Co 323 Pleasant E Waco Tex  
 Couch Bros Mfg Co 100 E Ware Av East Point Ga

**DANIELS (C R) INC 4900 BLOCK WETHEREDVILLE RD HILLSDALE BALTIMORE 16 MD**

Fulton Bag & Cotton Mills 170 Boulevard Elsas SE Atlanta 3 Ga  
 Goodrich (B F) Co 500 S Main Akron 18 Ohio

Goss (J C) Co 36 E Woodbridge Detroit 26 Mich

Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio

Johnson (J W) Co 3100 W Randolph Bellwood Ill

Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
 New York Drop Cloth Mfg Co 10-57 Jackson Av Long Island City NY

**RICKKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**

Standard Awning Co 83 Avon Hartford 5 Conn  
 Stanley (Wm W) Co Inc 401 Broadway New York 13 NY

Tucker, Duck & Rubber Co 515 Garrison Av Fort Smith Ark  
 United States Tent & Awning Co 2315 W Huron Chicago Ill

Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

### ▶ TARPULINS, WATERPROOFED

Astrup Co 2937 W 25th Cleveland 13 Ohio  
 Berg (F O) Spokane Wash  
**DANIELS (C R) INC 4900 BLOCK WETHEREDVILLE RD HILLSDALE BALTIMORE 16 MD**

Fulton Bag & Cotton Mills Inc 170 Boulevard Elsas SE Atlanta Ga  
 Goss (J C) Co 36 E Woodbridge Detroit 26 Mich

Hettrick (W E) & Son Co 3333 Maple Toledo 1 Ohio

Industrial Canvas Prods Corp 15-25 Flax Delaware Ohio

Johnson (J W) Co 3100 W Randolph Bellwood Ill

Upton Sales Corp 350 5th Av New York 1 NY  
 Wenzel (H) Tent & Duck Co 1035 Hickory St Louis Mo

Werner Canvas Prods Co 609 Bergen Brooklyn 17 NY

### ▶ TERNE PLATES

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bethlehem Steel Co 701 E Third Bethlehem Pa

Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 Division Lead Co 7742 W 61st Pl Summit Ill

**FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA**

**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**

Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
 Wheeling Corrugating Co Wheeling W Va  
 Wheeling Steel Corp Wheeling W Va

Youngstown Sheet & Tube Co Frank Furnell Bldg Youngstown 1 Ohio

### ▶ THIMBLES, CHIMNEY & STOVE PIPE

Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind

Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio

Hope Brick Works Hope Ark  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**

Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb

**MAJESTIC CO HALL ST HUNTINGTON IND**

**NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL**

Pacific Fire Prods 396 W Avenue 36 Los Angeles 31 Cal  
 Sterling Foundry Co Box 457 Sterling Ill  
 Swett (A L) Iron Wks 151 Glenwood Av Medina NY

Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn

Washington Brick & Lime Co Box 2198 Spokane 6 Wash  
**WILLIAMSON HEATER CO 3500 MADISON RD CINCINNATI 9 OHIO**

### ▶ THRESHOLDS, METAL & PLASTIC

Accurate Metal Weatherstrip Co 216 E 26th New York 10 NY  
 Adams Co Box 268 Dubuque Iowa

**ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa  
**AMERICAN BRASS CO 414 MEADOW WATERBURY 20 CONN**

American Mason Safety Tread Co 125 Perry Lowell Mass  
 Ames Metal Moulding Co 225 E 144th New York 51 NY

Blum (Julius) & Co Inc 532 W 22nd New York 11 NY  
 Braun (J G) Co 615 S Paulina Chicago 12 Ill

B & T Metals Co 425 W Town Columbus 16 Ohio

**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**

**CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN**

**CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL**

Decatur Iron & Steel Co 2nd St W Decatur Ala  
 Decorite Inc 2116 Peachtree Rd NW Atlanta Ga

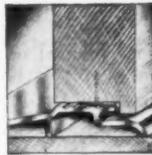
Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio

Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill  
 Ereo Mfg Co 2368 N Elston Av Chicago 14 Ill

Ford Metal Moulding Corp 2701 Bridge Plaza N Long Island City NY  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

## NU-ART THRESHOLDS FOR EVERY TYPE DOOR!

Alacrome or Brass  
 Holes Drilled—Screws Furnished



See Pgs. 14-17

SOLD BY HARDWARE & LUMBER DEALERS



**MACKLANBURG-DUNCAN CO. OKLAHOMA CITY, OKLA.**

Marquart Millwork Co 50 Ceape Oshkosh Wis

**MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL**

Metal Crafters E Av at 18th NE Cedar Rapids Iowa

Miller & Co Inc Selma Ala  
 Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo

Morgan-Wightman Supply Co 1541 Salsman Av St Louis Mo

**NATIONAL ALUMINUM CO 1135 ALUM CREEK DR COLUMBUS 9 OHIO**

National Guard Prods Inc 757 Madison Av Memphis Tenn

National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa  
 Newman Bros Inc 660 4th Cincinnati 3 Ohio

Nichols Metal Strip Service 2108 Gilbert Cincinnati 6 Ohio  
 Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY

Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 9 Ill  
 Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
 S & W Moulding Co 990 Parsons Av Columbus 6 Ohio

Safe Tread Co Inc 30 Vesey New York 7 NY

Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn  
 Union Aluminum Co Sheffield Ala  
 Wacunia Prods 6416 S Ashland Chicago 36 Ill

**WEATHERPROOF PRODS CORP WALDO STATION BOX 8498 KANSAS CITY 5 MO**

Wells Specialty Inc North Liberty Ind  
 Werner (R D) Co Inc 295 Fifth Av New York 16 NY

Wooster Prods Inc Leahr & Wyant Wooster Ohio  
**YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO**

### ▶ THRESHOLDS, WOOD

Aetna Plywood & Veneer Co 1731 Elston Av Chicago 22 Ill

Anderson-Tully Co Box 28 Memphis 10 Tenn  
 Angelina Hardwood Sales Co Box 1020 Wilson St Lufkin Tex

Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark

Bradley Lumber Co of Ark Warren Ark  
**BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN**

Chapman & Dewey Lumber Co Memphis Tenn  
 Cole Mfg Co Box 2657 Memphis 2 Tenn

**CROSSETT LUMBER CO CROSSETT ARK**  
 Edens Birch Lumber Co Corrigan Tex

**FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS**

Farley & Loetscher Mfg Co Dubuque Iowa  
 Farrin (M B) Lumber Co Spring Grove Cincinnati Ohio

Fordyce Lumber Co Fordyce Ark  
 Frost Lumber Industries Drawer 1125 Shreveport 90 La

Goshen Sash & Door Co E Purl Goshen Ind  
**GREG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**

Hallett Mfg Co Inc Mobile 2 Ala  
 Hardwood Corp of America Box 1091 Asheville NC

Holly Hill Lumber Co Holly Hill SC  
 Hutton & Bourbonnais Co Box 330 Hickory NC

Industrial Lumber Co Little Rock Ark  
 Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa

Mansfield Hardwood Lumber Co 1166 Louisiana Av Shreveport La  
 Meadow River Lumber Co RAINELLE W Va

Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn  
 Miller Bros Co Box 540 Johnson City Tenn

Nickey Bros Inc 2700 Summer Av Memphis Tenn  
 Owen (R C) Co Hopkinsville Kans

Phillips Wood Prods Co Inc Box 699 Brookhaven Miss  
 Plumly (P W) Lumber Corp Winchester Pa

Poinsett Lumber & Mfg Co Pickens SC  
 Reynolds Builders Supply 1900 N Front Albany Ga

Rock Island Millwork Co 2525 Fourth Av Rock Island Ill  
 Rose (D M) & Co Rose Pl Knoxville 4 Tenn

Scottdale Wood Prods Inc Box 36 Scottdale Pa  
 Southern Lumber Co Warren Ark

Stewart (E A) Lumber Co Inc Box 1777 Texarkana Tex  
 Stuart Lumber Corp Stuart 10 Va

Temple Lumber Co Pineland Tex  
 Triplett Lumber Co Inc Box 738 Lenoir NC

Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
 Webster (H E) Lumber Co 615 RA Long Bldg Kansas City 6 Mo

Williams-Brownell Inc Box 1091 Asheville NC  
 Williams (J L) & Sons Sheridan Ark

**▶ TIES, WALL**  
 Adams Co Box 268 Dubuque Iowa  
 Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City 6 Okla

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis

Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 Bethlehem Steel Co 701 E Third Bethlehem Pa

Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
 Builders Brick Co 3800 9th Av S Seattle 8 Wash

Carter Waters Corp 2440 Pennway Kansas City 8 Mo  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**

**CEDAR RAPIDS BLOCK CO DUR-O-WALL DIV 656 TWELFTH AV SW CEDAR RAPIDS IOWA**

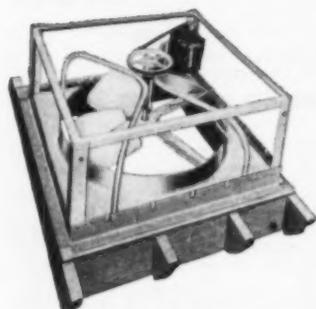
Central Prods Co 57 Forest Battle Creek Mich  
**CHASE BRASS & COPPER CO 236 GRAND WATERBURY 20 CONN**

Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Conover Steel & Wire Co 621 E 132nd New York 54 NY

Copperwell Steel Co 322 Frick Bldg Pittsburgh 19 Pa



# "Niteair" Fan Technical Data

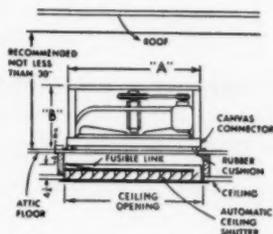


## "Niteair" Rancher Fans—

The Rancher fan . . . an economical and complete packaged unit . . . quick and easy to install. It is horizontally mounted with a belt driven motor. The air flow is in a vertical direction. Requires practically no maintenance or attention other than routine fall and spring inspection. Many added features: . . . Sealed bearings, all moving parts . . . Air Tight canvas seal . . . Automatic Time Switch (optional) . . . Rubber cushion mounted for quiet, vibration-free operation. The dimensional drawing illustrates how the Rancher Fan has been designed and built especially for use in buildings or dwellings of low pitched roof construction. Its compactness makes fan installation possible in otherwise hard-to-solve applications . . . note specifications.

### SPECIFICATIONS AND DIMENSIONS—

unit	fan size	A	B	"C" ceiling opening	"D" outside dimension	c.f.m. free del.	approx. r.p.m.	motor h.p.	motor pulley o.d.	fan pulley o.d.	belt length
NA-243-R	24"	30x30	12	26x30¼	28x32	4750	655	½	2.5	7	46
NA-303-R	30"	36x36	12	30x36½	32x38	6409	466	½	2.25	8	56
NA-363-R	36"	42x42	12	36x42½	38x44	8780	376	½	2.25	10	68
NA-423-R	42"	48x48	16	42x48½	44x50	11929	318	½	2.75	14	80

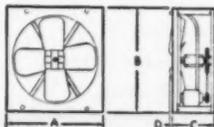
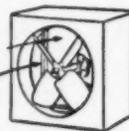


## "Niteair" Panel Units

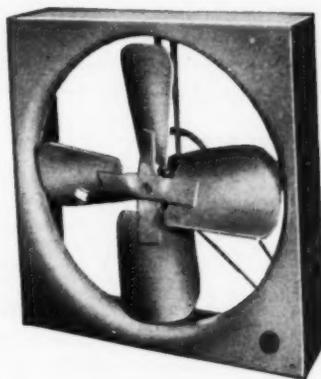
NA-Series Industrial, Residential and Commercial Niteair panel units . . . greater flexibility of installation . . . superior performance. Automatic shutters can be mounted directly on the discharge side of panel. A guard can be mounted on either front and/or back panel. Motor is accessible and protected on rear side by louver when installed.

Niteair Panel Units have four blades properly pitched to provide greatest suction and air movement. Exclusive LAU self-aligning pillow blocks with Durex bronze bearings hold shaft rigidly, preventing vibration. Entire assembly statically balanced.

Direction of air movement is the same on all LAU Niteair fans. Thus, the air moves from the panel THRU the venturi past the fan blades and is exhausted. This type of air movement enables far greater efficiency than found in the conventional exhaust fan usually seen.



This diagram sketch shows front and end dimensional views (with panels removed) of the NA-243, NA-303, NA-363, NA-423, NA-425, NA-485 and NA-487 "NITEAIR" fans.



### SPECIFICATIONS AND DIMENSIONS—

unit	fan size	A	B	C	D	c.f.m. free del.	1/10" s.p.	approx. r.p.m.	motor h.p.	motor pulley o.d.	fan pulley o.d.	belt length
NA-243	24"	30	30	11	0	4750	3500	655	½	2.5	7	46
NA-303	30"	36	36	11	0	7611	6396	564	½	2.75	8	56
NA-363	36"	42	42	11	1½	9925	7759	413	½	2.5	10	68
NA-423	42"	48	48	15	1½	11929	8350	318	½	2.75	14	80
NA-425	42"	48	48	15	1½	14347	12050	380	½	3.00	14	80
NA-485	48"	54	54	15	1½	15679	12000	317	½	2.75	14	88
NA-487	48"	54	54	15	1½	17564	14600	350	¾	3.00	14	88

For greatest efficiency SPECIFY 2-SPEED MOTORS.

Lou fan ratings are certified by the P.F.M.A. and carry UL approval. Fans are guaranteed for five years and motors carry a one year warranty.

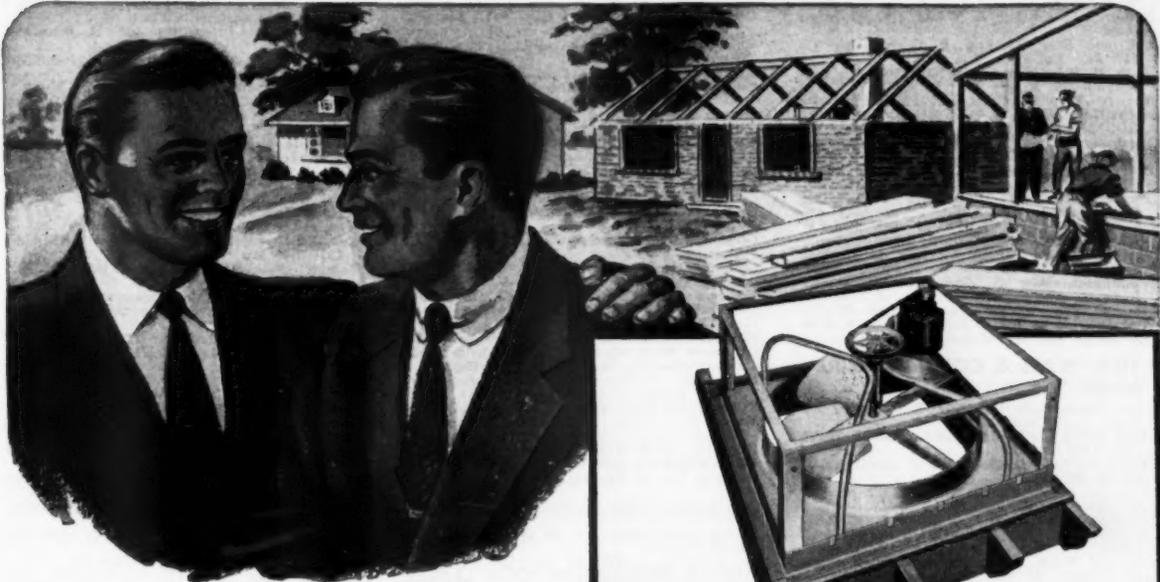
Units complete with pulleys, belts and 115V, 60 cycle, single phase A.C. resilient mounted sleeve bearing motors. (Models NA-425, 485, 487 have 115/230 Volt motors)

2008 Home Avenue

The LAU Blower Company • Dayton 7, Ohio

# LAU 1954 Fan Facts

Try this **LOW-COST** way to make more friends and profits for your business!



You profit quicker... and sell easier when your homes and buildings feature "built-in extras" that add so much to the comfort and convenience of the buyer.

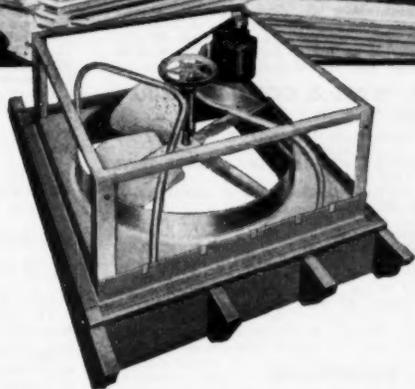
Make friends and customers of your prospects by installing LAU "Niteair" cooling. Just a flip of the switch and these superior fans send gentle, cooling, refreshing breezes flowing through the home. Hot, stagnant air is quickly expelled.

Quick... easy... and economical to install. LAU "Niteair" Fans make friends and really JUMP profits for you. Plan to install the tested, proven LAU "Niteair" now!

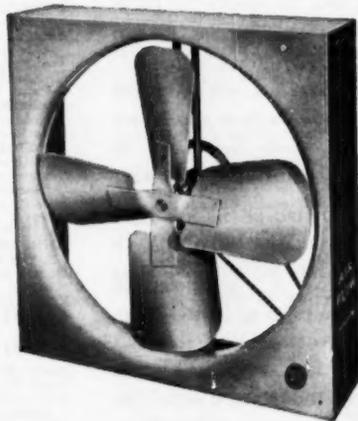


## Guaranteed 5 years

Lau fan ratings are Certified by the PFMA and carry UL approval. Fans are guaranteed for 5 years and motors carry a one-year warranty.



**LAU "Niteair" Rancher Fans.** Designed for homes with low-pitched roofs. Available in four sizes—24", 30", 36" and 42", with air delivery to meet every demand.



**LAU "Niteair" Panel Units.** Newly designed, ruggedly constructed. Discharge capacity for every requirement. Five sizes—24", 30", 36", 42" and 48".

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2008 Home Avenue • Dayton 7, Ohio  
Write today for catalogs and further information.

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 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
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**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
 Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
 Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
**KEWANEE MFG CO 150 BURLINGTON KEWANEE ILL**  
 Klauer Mfg Co 9th & Washington Dubuque Iowa  
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 Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind  
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 Washington Mfg Co Box 370 Washington Iowa  
 Wheeling Corrugating Co Wheeling W Va  
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 Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
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 Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill  
 Tile-Tex Div Flintkote Co Chicago Heights Ill  
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**WRIGHT MFG CO BOX 6567 HOUSTON 5 TEX**

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 Beacon Brick Co 619 Beacon Bldg Wichita 2 Kan  
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 Builders Brick Co 3800 9th Av S Seattle 8 Wash  
 Cambridge Tile Mfg Co Box 71 Cincinnati 15 Ohio  
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 Conco Building Prods Inc Box 111 Mendota Ill  
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 Elgin Standard Brick Mfg Co Elgin Tex  
 Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo  
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 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 General Shale Prods Corp Johnson City Tenn  
 Gladding McBean & Co 1275 Harrison San Francisco  
 Hocking Valley Brick Co 150 E Broad Columbus 15 Ohio  
 Hope Brick Wks Hope Ark  
 Humphrey Brick & Tile Co Brookville Pa  
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 Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa  
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 Mason City Brick & Tile Co Mason City Iowa  
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 National Tile & Mfg Co E 26th St Anderson Ind  
 Oconee Clay Prods Co Box 262 Milledgeville Ga  
 Pacific Clay Prods 306 W Av 26 Los Angeles 31 Cal  
 Peoria Brick & Tile Co Box 515 Peoria Ill  
**POMONA TILE MFG CO 629 N LABREA AV HOLLYWOOD 38 CAL**  
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 Red River Valley Brick Corp Grand Forks ND  
 Reno Press Brick Co Box 116 Reno Nev  
 Robertson Mfg Co Box 848 Trenton 5 NJ  
 Robinson Clay Prod Co Second National Bank Bldg Akron 9 Ohio  
 Rockford Brick & Tile Co Rockford Iowa  
 Sheffield Brick & Tile Co Sheffield Iowa  
 Sheridan Press Brick & Tile Co Sheridan Wyo  
 Sparta Ceramic Co East Sparta Ohio  
 Standard Brick & Tile Co 123 NW Fourth Evansville 8 Ind  
 Stillwater Clay Prods Inc 3334 Prospect Av Cleveland 15 Ohio  
 Summit Pressed Brick & Tile Co 13th & Erie Pueblo Colo  
 Texas Brick Co Box 510 Brownwood Tex  
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 Adel Clay Prods Co 1118 Mulberry Des Moines 5 Iowa  
 Alliance Clay Prods Co 1500 S Mahoning Box 746 Alliance Ohio  
 American Vitriified Prods Co 701 National City Bond Bldg Cleveland 14 Ohio  
 Birmingham Building Prods Corp 3260 Fayette Av Birmingham 8 Ala  
 Black Hills Clay Prods Co Box 730 Belle Forche SD  
 Bowerston Shale Co Bowerston Ohio  
 Builders Brick Co 3800 9th Av S Seattle 8 Wash  
 Bush (W G) & Co Nashville Tenn  
 Cannelton Sewer Pipe Co 4th & Washington Cannelton Ind  
 Chehalis Brick & Tile Co Chehalis Wash

Chicago Fire Brick Co 1461 N Elston Av Chicago 22 Ill  
 Clay City Pipe Co Box 272 Uhrichsville Ohio  
 Columbia Brick Wks 1320 SE Water Av Portland 14 Ore  
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 Conco Building Prods Inc Box 111 Mendota Ill  
 Concrete Prods Corp Humboldt Iowa  
 Dee Clay Prods Co Bloomingdale Ind  
 Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver 1 Colo  
 Dickey (W S) Clay Mfg Co 607 Commerce Trust Bldg Kansas City 6 Mo  
 Evans Pipe Co 23 Newport Av Uhrichsville Ohio  
 Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo  
 Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla  
 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 Graystone Concrete Prods Co 134 Nickerson Seattle 9 Wash  
 Great Falls Brick Co Great Falls Mont  
 Hancock Brick & Tile Co Findlay Ohio  
 Humboldt Brick & Tile Co 822 Bridge Humboldt Kan  
 Interstate Brick Co 3100 S 11th E Box 144 Sugarhouse Sta Salt Lake City 6 Utah  
 Kalo Brick & Tile Co 1230 1st Av S Fort Dodge Iowa  
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 Lehigh Sewer Pipe & Tile Co Box 728 Fort Dodge Iowa  
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 Redfield Brick & Tile Co Redfield Iowa  
 Robinson Clay Prods Co 2nd National Bank Bldg Akron 9 Ohio  
 Rockford Brick & Tile Co Rockford Iowa  
 Sheffield Brick & Tile Co Sheffield Iowa  
 Standard Brick & Tile Corp 123 NW Fourth Evansville 8 Ind  
 Sheridan Press Brick & Tile Co Sheridan Wyo  
 Streator Drain Tile Co Streator Ill  
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 Texas Brick Co Box 510 Brownwood Tex  
 Texas Vitriified Pipe Co Box 111 Mineral Wells Tex  
 United Brick & Tile Co 903 McGee Kansas City 42 Mo  
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 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 Kraftile Co Niles Cal  
 Murray Tile Co Inc Cloverport Ky  
 National Tile & Mfg Co E 26th St Anderson Ind  
 Sparta Ceramic Co East Sparta Ohio  
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**TILE, PARTITION, CLAY**

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 Acme Shale Brick Co 1153 Main Buffalo 9 NY  
 Black Hills Clay Prods Co Box 730 Belle Forche SD  
 Builders Brick Co 3800 9th Av S Seattle 8 Wash  
 Chehalis Brick & Tile Co Chehalis Wash  
 Columbia Brick Wks 1320 SE Water Av Portland 14 Ore  
 Conco Building Prods Inc Box 111 Mendota Ill  
 Denver Sewer Pipe & Clay Co 4501 Fox Box 2329 Denver Colo  
 Florida Georgia Brick & Tile Co 589 Nixon Box 6187 Jacksonville Fla

Gagnon Clay Prods Co 526 S Broadway  
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Great Falls Brick Co Great Falls Mont  
Hanley Co 101 Park Av New York NY  
Hocking Valley Brick Co 150 E Broad  
Columbus 15 Ohio  
Hope Brick Works Hope Ark  
Kalo Brick & Tile Co 1230 1st Av S Fort  
Dodge Iowa  
Lewiston Brick & Tile Co Lewiston Mont  
Mason City Brick & Tile Co Mason City  
Iowa  
Milliken Brick Co 2100 Montier Pittsburgh  
21 Pa  
Minneapolis Builders Supply Co 927 Second  
Av Minneapolis 2 Minn  
Redfield Brick & Tile Co Redfield Iowa  
Reno Press Brick Co Box 116 Reno Nev  
St Anne Brick & Tile Co St Anne Ill  
Sheffield Brick & Tile Co Sheffield Iowa  
Summit Pressed Brick & Tile Co 13th  
& Erie Pueblo Colo  
Washington Brick & Lime Co Box 2198 Spo-  
kane 8 Wash  
Wisconsin Face Brick & Supply Corp 4485  
N Green Bay Av Milwaukee Wis  
Yankee Hill Brick Mfg Co 728 Stuart Bldg  
Lincoln Neb

### ► TILE, PARTITION, GYPSUM

Blue Diamond Corp 1650 S Alameda Los An-  
geles Cal  
**CERTAIN-TEED PRODS CORP 120 E LAN-  
CASTER AV ARDMORE PA**  
Florida Georgia Brick & Tile Co 589 Nixon  
Box 6187 Jacksonville Fla  
Minneapolis Builders Supply Co 927 Second  
Av Minneapolis 2 Minn  
**NATIONAL GYPSUM CO 325 DELAWARE  
AV BUFFALO 2 NY**  
**UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL**

### ► TILE, PAVING, NON-SLIP

American Abrasive Metals Co 460 Coit Ir-  
vington 11 NJ  
Charleston Clay Prods Co 1947 Saunders  
Charleston 22 W Va  
**FLINTKOTE CO 30 ROCKEFELLER  
PLAZA NEW YORK 13 NY**  
National Tile & Mfg Co E 26th St Anderson  
Ind  
Safe Tread Co Inc 30 Vesey New York 7 NY  
Stark Brick Co Canton Ohio  
Washington Brick & Lime Co Box 2198 Spo-  
kane Wash

### ► TILE, PLASTIC

American Rubber Prods Corp 151 E 50th  
New York 22 NY  
Cermak Tile Co 4901 Brookpart Rd Cleve-  
land Ohio  
**CONGOLEUM-NAIRN INC 195 BELGRAVE  
DR KEARNY NJ**  
Danbury Rubber Co Inc Shelter Rock Rd  
Danbury Conn  
Fremont Rubber Co 350 McPherson Hwy  
Fremont Ohio  
Goodrich (B F) Co Flooring Div 36 Nichols  
Av Watertown 72 Mass  
**HACHMEISTER INC BOX 357 PITTS-  
BURGH 30 PA**  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
**MASTIC TILE CORP OF AMERICA N  
MONTGOMERY NEWBURGH NY**  
Metal Tile Prods Inc 225 W Walnut Hastings  
Mich  
**MOULTILE INC N MONTGOMERY NEW-  
BURGH NY**  
National Plywoods Inc 2710 Throop Chicago  
Ill  
Plymold Co 2707 Tulare Av Burbank Cal  
Robbins Floor Prods Inc Tuscumbia Ala  
Sloane-Delaware Floor Prods Inc Box 401  
Trenton 3 NJ  
Styron Bri-Tile Co of New York 177 Broad-  
way New York 7 NY  
Thomas Moulding Floor Co Inc 325 W Huron  
Chicago 10 Ill  
United States Stoneware Co 5300 E Tall-  
madge Av Akron 9 Ohio  
Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa  
**WRIGHT MFG CO BOX 6567 HOUSTON 5  
TEX**

### ► TILE, PLASTIC, ASBESTOS

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Azrock Prods Div Uvalde Rock Asphalt Co  
Box 531 San Antonio Tex  
Camp Co Inc 6958 S State Chicago 21 Ill  
Cololyte Tyle-Bord Inc 975 John Seattle 9  
Wash  
**JOHNS-MANVILLE CORP 22 E 40TH NEW  
YORK 16 NY**  
Tile-Tex Div Flintkote Co 1200 McKinley Av  
Chicago Heights Ill

### ► TILE, QUARRY

Builders Brick Co 3800 9th Av S Seattle 8  
Wash

Carlyle Tile Co Ironton Ohio  
Clark (N) & Sons Div Pacific Clay Prods  
Alameda Cal  
Florida Georgia Brick & Tile Co 589 Nixon  
Box 6187 Jacksonville Fla  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Gladding-McBean & Co 2901 Los Feliz Blvd  
Los Angeles Cal  
Hanley Co 101 Park Av New York NY  
Interstate Brick Co 3100 S 11th E Box 144  
Sugarhouse Sta Salt Lake City 6 Utah  
Ludowici-Celadon Co 75 E Wacker Dr Chi-  
cago 1 Ill  
Millin (B) Hood Co Daisy Tenn  
Milliken Brick Co 2100 Montier Pittsburgh  
21 Pa  
**MOSAIC TILE CO 1949 PERSHING AV  
ZANESVILLE OHIO**  
Murray Tile Co Inc Cloverport Ky  
Pacific Clay Prods 306 W Ave 26 Los An-  
geles 31 Cal  
Summitville Tiles Inc Summitville Ohio  
United Materials & Richmond Brick Co Ltd  
Point Richmond Cal  
Utah Fire Clay Co Salt Lake City Utah  
Washington Brick Lime & Sewer Pipe Co  
Box 2198 Spokane Wash  
Wisconsin Face Brick & Supply Corp 4485  
N Green Bay Av Milwaukee Wis

### ► TILE, ROOFING

California Pottery Co Niles Cal  
Clark (N) & Sons Div Pacific Clay Prods  
Alameda Cal  
Gladding-McBean & Co 1725 Harrison San  
Francisco Cal  
Interstate Brick Co 3110 S 11th E Box 144  
Sugarhouse Sta Salt Lake City Utah  
Ludowici-Celadon Co 75 E Wacker Dr Chi-  
cago 1 Ill  
Millin (R) Hood Co Daisy Tenn  
Washington Brick & Lime Co Box 2198 Spo-  
kane Wash  
Wolverine Porcelain Enameling Co 3350  
Scotten Av Detroit 10 Mich  
**ZONOLITE CO 135 S LASALLE CHICAGO  
3 ILL**

### ► TILE, ROOFING, INSULATING

Texas Vermiculite Co 303 Brazos Austin Tex

### ► TILE, ROOFING, METAL

Edwards Mfg Co 5th & Butler Cincinnati  
Ohio  
**REYNOLDS METALS CO BUILDING  
PRODS DIV 2091 S 9TH LOUISVILLE 1  
KY**

### ► TILE, RUBBER

American Biltrite Rubber Co Perrine Av  
Trenton 2 NJ  
American Rubber Corp Box 290 Albertville  
Ala  
American Rubber Prods Corp 151 E 50th  
New York 22 NY  
**ARMSTRONG CORK CO 1010 CONCORD  
LANCASTER PA**  
Beauty Wear Rubber Co Inc 129 Washington  
Av S Hopkins Minn  
Camp Co Inc 6958 S State Chicago 21 Ill  
Cololyte Tyle-Bord Inc 975 John Seattle 9  
Wash  
**CONGOLEUM-NAIRN INC 195 BELGRAVE  
DR KEARNY NJ**  
Danbury Rubber Co Danbury Conn  
Forman-Ford & Co 111 E Second Minne-  
apolis Minn  
Fremont Rubber Co 350 McPherson Hwy  
Fremont Ohio  
Goodrich (B F) Co Flooring Div 36 Nichols  
Av Watertown 72 Mass  
**GOODYEAR TIRE & RUBBER CO 1485 E  
ARCHWOOD AV AKRON 16 OHIO**  
**KENTILE INC 58 SECOND AV BROOKLYN  
15 NY**  
Lustro Tile Mfg Co 49½ S Main Akron 8  
Ohio  
Mitchell Rubber Prods Inc 2130 San Fer-  
nando Rd Los Angeles 65 Cal  
**PARCO PRODS INC 475 BRANNAN SAN  
FRANCISCO 19 CAL**  
Palladium Prods 6127 Cedar Av Philadelphia  
43 Pa  
RCA Rubber Co 1833 E Market Akron Ohio  
Robbins Floor Prods Inc Tuscumbia Ala  
Rubber Prods Inc 111 S Second Minneapolis  
1 Minn  
Sloane-Delaware Floor Prods Inc Box 401  
Trenton 3 NJ  
United States Rubber Co 1230 Avenue of  
the Americas New York 20 NY  
Williams Prods Co Inc 6127 Cedar Av Phila-  
delphia 43 Pa  
**WRIGHT MFG CO BOX 6567 HOUSTON  
TEX**

### ► TILE, SEWER, SEGMENT

Bowerston Shale Co Bowerston Ohio  
Dickey (W S) Clay Mfg Co 607 Commerce  
Trust Bldg Kansas City 6 Mo  
**NATIONAL CLAY PIPE MFRS INC 100 N  
LASALLE RM 2100 CHICAGO 2 ILL**

Universal Sewer Pipe Corp 1500 Union Com-  
merce Bldg Cleveland 14 Ohio

### ► TILE, SILO

Acme Brick Co Box 425 Fort Worth Tex  
Columbia Brick Wks 1320 SE Water Av Port-  
land 14 Ore  
Dickey (W S) Clay Mfg Co 607 Commerce  
Trust Bldg Kansas City 6 Mo  
Kalamazoo Tank & Silo Co 508 Harrison  
Kalamazoo Mich  
Kalo Brick & Tile Co 1230 1st Av S Fort  
Dodge Iowa  
United Brick & Tile Co 903 McGee Kansas  
City 42 Mo  
Yankee Hill Brick Co 728 Stuart Bldg Lin-  
coln Neb

### ► TILE, STRUCTURAL CLAY

Acme Brick Co Box 425 Fort Worth Tex  
Acme Shale Brick Co 1153 Main Buffalo 9 NY  
Adel Clay Prods Co 1118 Mulberry Des  
Moines 9 Iowa  
Arketek Ceramic Corp 6 N Walnut Brazil  
Ind  
Beacon Brick Co 619 Beacon Bldg Wichita  
2 Kans  
Brookhaven Pressed Brick & Mfg Co Brook-  
haven Miss  
Builders Brick Co 3800 9th Av S Seattle 8  
Wash  
Bush (W G) & Co Nashville Tenn  
Charleston Clay Prods Co Charleston W Va  
Chehalis Brick & Tile Co Chehalis Wash  
Cherokee Brick Co Box 58 Macon Ga  
Claycraft Co Box 866 Columbus 16 Ohio  
Columbia Brick Wks 1320 SE Water Av  
Portland 14 Ore  
Conco Building Prods Inc Mendota Ill  
Denver Sewer Pipe & Clay Co 4501 Fox Box  
2329 Denver Colo  
Dickinson Clay Prods Co Dickinson ND  
Elgin Butler Brick Co Austin Tex  
Florida Georgia Brick & Tile Co 589 Nixon  
Box 6187 Jacksonville Fla  
Fraser Brick Co 2501 Cedar Springs Dallas Tex  
Gagnon Clay Prods Co 526 S Broadway Green  
Bay Wis  
General Shale Prods Corp Johnson City Tenn  
Great Falls Brick Co Great Falls Mont  
Hocking Valley Brick Co 150 E Broad Colum-  
bus Ohio

Hope Brick Wks Hope Ark  
Humboldt Brick & Tile Co 822 Bridge Hum-  
boldt Kan  
Illinois Brick Co 228 N LaSalle Chicago Ill  
Interstate Brick Co 3100 S 11th E Box 144  
Sugarhouse Sta Salt Lake City Utah  
Jenkins Brick Co Montgomery Ala  
Kalamazoo Tank & Silo Co 508 Harrison  
Kalamazoo Mich  
Kalo Brick & Tile Co 1230 1st Av S Fort  
Dodge Iowa  
Kraftile Co Niles Cal  
Lovell Clay Prods Lovell Wyo  
Mason City Brick & Tile Co Mason City Iowa  
Metropolitan Brick Inc 1017 Renkert Bldg  
Canton 2 Ohio  
Milliken Brick Co 2100 Montier Pittsburgh  
21 Pa  
Minneapolis Builders Supply Co 927 Second  
Av Minneapolis Minn  
Moorhead Brick & Tile Co 5th Av & 11th  
St Joseph Mo  
New Bethlehem Tile Co New Bethlehem Pa  
Oconee Clay Prods Co Box 262 Milledgeville  
Ga  
Peoria Brick & Tile Co Box 515 Peoria Ill  
Redfield Brick & Tile Co Redfield Iowa  
Red River Valley Brick Corp Grand Forks  
ND  
Reno Press Brick Co Box 116 Reno Nev  
Rockford Brick & Tile Co Rockford Iowa  
Robinson Clay Prod Co Second National Bank  
Bldg Akron 9 Ohio  
St Anne Brick & Tile Co St Anne Ill  
Schneider Brick & Tile Co Inc Pere Mar-  
quette New Orleans La  
Sheffield Brick & Tile Co Sheffield Iowa  
Sheridan Press Brick & Tile Co Sheridan  
Wyo  
Standard Brick & Tile Corp 123 NW Fourth  
Evanville 8 Ind  
Stark Brick Co Canton 1 Ohio  
Summit Pressed Brick & Tile Co 13th &  
Erie Pueblo Colo  
Texas Brick Co Box 510 Brownwood Tex  
United Brick & Tile Co 903 McGee Kansas  
City 42 Mo  
Washington Brick & Lime Co Box 2198 Spo-  
kane 8 Wash  
Wisconsin Face Brick & Supply Corp 4485 N  
Green Bay Av Milwaukee Wis  
Yankee Hill Brick Mfg Co 728 Stuart Bldg  
Lincoln Neb

### ► TILE, WALL, ALUMINUM, PLASTIC COATED

Alloy Tile Corp 109 Roosevelt Av Belleville  
NJ  
Bentile Mfg Co State & Sultana Ontario Cal  
Color Craft Prods Inc 5035 Belleville De-  
troit 11 Mich  
Metal Tile Prods Inc 225 E Walnut Hastings  
Mich

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

### ▶ TILE, WALL, BOARD

**A & F TILEBOARD CO LEE & ROY BOX**  
4045 ALEXANDRIA LA

Aetna Plywood & Veneer Co 1752 Elston Av Chicago 22 Ill

**ARMSTRONG CORK CO 1010 CONCORD**  
LANCASTER PA

Barclay Mfg Co Inc 385 Gerard Av Bronx NY

Bestile Mfg Co State & Sultana Ontario Cal  
**CELOTEX CORP 120 S LASALLE CHICAGO**  
3 ILL

Color-Craft Prods Inc 5035 Belleville Detroit 11 Mich

Colotyle Tyle-Bord Div Tyle-Bord Co Inc  
Seattle Wash

**DANT & RUSSELL INC 711 EQUITABLE**  
BLDG PORTLAND ORE

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East Coast Tileboard Corp 41-59 Wyckoff Av  
Brooklyn 37 NY

**FLINTKOTE CO 30 ROCKEFELLER PLAZA**  
NEW YORK 20 NY

Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill

Homasote Co Fernwood Rd Trenton 3 NJ

**INSULITE DIV MINNESOTA & ONTARIO**  
PAPER CO 500 BAKER ARCADE BLDG  
MINNEAPOLIS 2 MINN

**JOHNS-MANVILLE CORP 22 E 40TH NEW**  
YORK 16 NY

**MARSH WALL PRODS INC 5032 MAIN**  
DOVER OHIO

**MASONITE CORP 111 W WASHINGTON**  
CHICAGO 2 ILL

Milwaukee Plywood Co 1227 W Bruce Milwaukee 5 Wis

Miratile Mfg Co 600 W 81st Chicago 20 Ill

**NATIONAL GYPSUM CO 325 DELAWARE**  
AV BUFFALO 2 NY

National Plywoods Inc 2710 Throop Chicago Ill

National Tileboard Corp 1314 Blondell Av  
New York 61 NY

Plastergon Wall Board Co 196 Philadelphia  
Av Buffalo 7 NY

Plytex Corp 1731 Elston Av Chicago 22 Ill

Prestile Mfg Co 5850 Ogden Av Chicago 50 Ill

Simpson Logging Co White Bldg Seattle 1 Wash

Superior Wall Prods Co 4401 N American  
Philadelphia 40 Pa

Tex-A-Panel Mfg Co 10848 Harry Hines Blvd  
Dallas Tex

Tylac Co Monticello Ill

**UNITED STATES GYPSUM CO 300 W**  
ADAMS CHICAGO 6 ILL

**US Mengel Plywoods Inc Box 1612 Louisville**  
1 Ky

Wallace Mfg Co 10th & Fayette North Kansas  
City 16 Mo

Wall-Tile Mfg Co 5850 W Ogden Cicero Ill

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ▶ TILE, WALL, BOARD, GYPSUM

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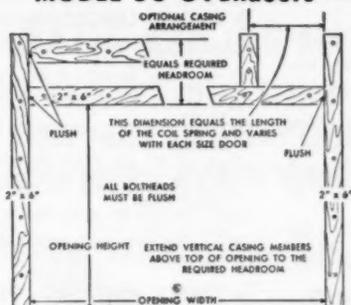
Circo Tool Co 3805 W Lisbon Milwaukee Wis

**CUSTOM MACHINERY CO BOX 1803 FORT WORTH TEX**



# OVERdoors · OPERATORS · RADIO CONTROL

## MODEL 50 OVERdoors



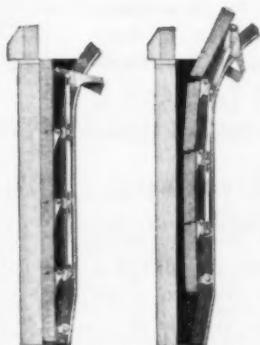
### Sizes and Space Required—Standard

Model 50 sizes go up to 265 sq. ft. not exceeding 20' wide, 20' high. Model 100 (extra-heavy Model 50 hardware) sizes go up to 400 sq. ft. not exceeding 28'2" wide, 21'6" high.  
Headroom—16" (13 3/8" min.)  
Sideroom—4" Center Post—8"  
Backroom—Door Height plus 18" (12" min.)

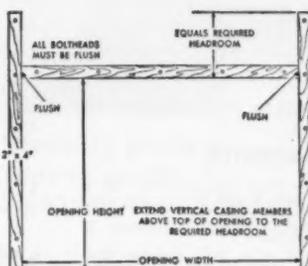
#### Cam Closing Action

1. Weather-tight closing because cam action locks door snugly against stop strips.
2. Easy-working because cam action releases door instantly. Full 1/2" clearance prevents sticking or binding.

**OTHER FEATURES:** Self-latching night lock, continuous track mounting, rubber weather-stripping, ball-bearing rollers. Douglas fir sections in flush and panel designs, and torsion springs.



## MODEL 31 OVERdoors



### Sizes and Space Required—Standard

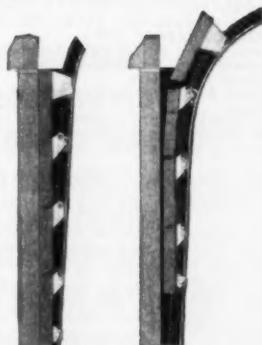
Model 31 sizes go up to 150 sq. ft. not exceeding 16' wide and 12'6" high.  
Headroom—14" (12 1/4" min.)  
Sideroom—3 1/2"  
Center Post—7"  
Backroom—Door Height plus 14" (12" min.)

#### Wedge-Set Roller System

(Patent applied for)

Provides tighter closing than with gradual wedge track alone. Yet sticking and binding are prevented because rollers have offset mounting and are positioned to provide more opening space.

**OTHER FEATURES:** Douglas fir sections, self-latching night lock, extension springs, guide rope, ball-bearing rollers. Attractive flush and panel designs.



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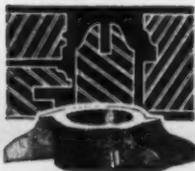
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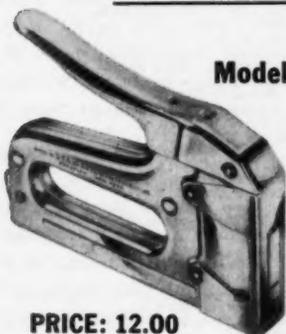
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- All steel construction
- All chrome finish

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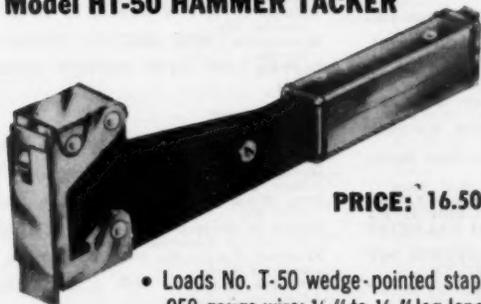


**Model T-50 GUN TACKER**

- Loads 85 No. T-50 wedge-pointed staples, .050 gauge wire; 1/4", 3/8", 1/2", 5/8" leg lengths
- All steel construction
- All chrome finish

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 Hood Bros 4327 Orchard Frankford Philadelphia 24 Pa  
 Mephisto Tool Co Inc Box 16 Hudson NY  
**MILWAUKEE ELECTRIC TOOL CORP 5364 W STATE MILWAUKEE 8 WIS**  
 Nash (J M) Co 31350 Detroit Rd Westlake Ohio  
 P & C Hand Forged Tool Co Portland 22 Ore  
 Peck Stow & Wilcox Co Mill St Southington Ill  
 Proto Tool Co 2209 Santa Fe Av Los Angeles 14 Cal  
 Rainey-Tools Grove City Pa  
 Stortz (John) & Son Inc 210 Vine Philadelphia 6 Pa  
 Tipp Mfg Co N Fourth Tipp City Ohio  
 Vernontown Mfg Co Inc 338 W Lincoln Av Mount Vernon NY  
 Wilde Drop Forge & Tool Co 2942 Fairmount Av Kansas City 8 Mo

### ► TOOLS, PNEUMATIC

Chicago Pneumatic Tool Co Six E 44th New York 17 NY  
 Gardner Denver Co 100 Williamson Quincy Ill  
 Ingersoll Rand Co 11 Broadway New York 4 NY  
**SKIL CORP 5933 ELSTON AV CHICAGO 30 ILL**  
 Thor Power Tool Co 175 N State Aurora Ill  
 Vulcan Tool Mfg Co 41 Liberty Quincy 69 Mass  
 Worthington Corp S Second Plainfield NJ  
 Wright Power Saw & Tool Co 292 Longbrook Av Stratford Conn

### ► TOOLS, ROOFING

Belden Machine Co 1108 Whalley New Haven 15 Conn  
 Burritt (O F) & Bro Weedsport NY  
 Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
**GOLDBLATT TOOL CO 1922 WALNUT KANSAS CITY 8 MO**  
 Hood Bros 4336 Orchard Frankford Philadelphia 24 Pa  
 Hydraulic Mfg Co Kiel Wis  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 Nash (J M) Co 31350 Detroit Rd Westlake Ohio  
 Peck Stow & Wilcox Co Mill St Southington Conn  
**RCS TOOL SALES CORP BOX 1434 JOLIET ILL**  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
 Stortz (John) & Sons Inc 210 Vine Philadelphia 6 Pa

Tri States Building Materials Co Inc 6100 Camp Bowie Blvd Fort Worth 2 Tex  
 Vernontown Mfg Co Inc 338 W Lincoln Av Mount Vernon NY

### ► TOOLS, WEATHERSTRIP

Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio  
 Central Metal Strip Co 4343 N Western Av Chicago 18 Ill  
 Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo  
 Protex Weatherstrip Mfg Co 4508 S Western Av Chicago 111  
 Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**

### ► TOPS, CABINET, TABLE, COUNTER

**AMERICAN KITCHENS DIV AVCO MFG CORP 1878 & COLUMBIA CONNERSVILLE IND**  
 Angel Novelty Co 340 Broad Fitchburg Mass  
 Arborite Co Ltd 385 Lafeur Av Ville LaSalle Montreal 32 Que Canada  
**ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA**  
 Boro Wood Co Maspath LI NY  
 Bradley Lumber Co of Ark Warren Ark  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Consolidated Water Power & Paper Co Abingwagaw Div Wisconsin Rapids Wis  
 Consoweld Inc Wisconsin Rapids Wis  
 Continental Can Co Conolite Dept 16th & Locust Wilmington Del  
**CURTIS COMPANIES INC 1200 S SECOND AV CLINTON IOWA**  
 Douglas Crestlyn International Inc 901 Girard Av NE Washington 17 DC  
**ELKAY MFG CO 1874 S 54TH AV CHICAGO 56 ILL**  
 Enamel Prods Co Korok Div & Tepeco Div Eddy Rd & Taft Av Cleveland 6 Ohio  
 Engineers Plywood Prods Co Box 1326 Tacoma Wash  
 Farley & Loetscher Mfg Co Dubuque Iowa  
**FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO**  
 Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
**GENERAL ELECTRIC CO CHEMICAL DIV 1 PLASTICS AV PITTSFIELD MASS**  
 Hyde Murphy Co Murphy Bldg Ridgway Pa  
 Hyde Park Prods Co Burch Av & NWRR Cincinnati 8 Ohio  
 Ingram-Richardson Mfg Co 32nd St Beaver Falls Pa  
 IXL Furniture Co Goshen Ind  
 Just Mfg Co 9233 King Av Franklin Park Ill  
**KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH**  
**KITCHEN MAID CORP 541 SNOWDEN ANDREWS IND**  
**LEGION STAINLESS SINK CORP 21-07 40TH AV LONG ISLAND CITY 1 NY**  
 Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
**MARSH WALL PRODS INC 5032 MAIN DOVER OHIO**  
 Midwest Mfg Co Galesburg Ill  
 Murdock Mfg & Supply Co 426-30 Plum Cincinnati 2 Ohio  
**NATIONAL PLASTIC PRODS CO ODENTON MD**  
 National Tile & Mfg Co E 26th St Anderson Ind  
 Ohio Rubber Co 102 Ben Hur Willoughby Ohio  
 Palley Mfg Co 1103-07 W North Av Pittsburgh 33 Pa  
 Paragon Utilities Corp 50 Van Dam Brooklyn NY  
 Parkwood Corp 24 Water Wakefield Mass  
**PITTSBURGH PLATE GLASS CO 432 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
**ST REGIS SALES CORP PANELYTE DIV 230 PARK AV NEW YORK 17 NY**  
 Sandura Co Inc Architects Bldg 17th & Sanson Philadelphia 3 Pa  
 Tennessee Enamel Mfg Co 4104 Park Av Nashville 9 Tenn  
**TRACY KITCHENS DIV EDGEWATER STEEL CO BOX 1137 3125 PREBLE AV PITTSBURGH 30 PA**  
 Tuco Work Shops Inc 43 Upson Point Lockport NY  
 US Mengel Plywood Inc Box 1612 Louisville 1 Ky  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 18 NY**  
 US Rubber Co 407 N Main Mishawaka Ind  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
**WOODALL INDUSTRIES INC 3500 OAKTON SKOKIE ILL**  
 Zahner Mfg Co 1213 Walnut Kansas City Mo

### ► TORCHES, BLOW

Aerofil Prods Co Inc 69 Wesley Av South Hackensack NJ  
 Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
 Bernz (Otto) Co Inc 280 Lyell Rochester 6 NY  
 Cetzarberg Mfg Co 545 S 4th Minneapolis 15 Minn  
 Clayton & Lambert Mfg Co 1701 Dixie Hwy Louisville 10 Ky  
 Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill  
 Detroit Torch & Mfg Co 12011 Cardoni at Horn Detroit Mich  
 Everhord Mfg Co 57 S 19th Av Maywood Ill  
 Hauke Mfg Co 124-36 10th Brooklyn NY  
 International Mfg Co 2249 S Delaware Denver 19 Colo  
 Kinetic Laboratories 1720 Sansom Philadelphia Pa  
 Lenk Mfg Co 30-38 Cummington Boston 15 Mass  
**PITTSBURGH PLATE GLASS CO 432 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Sandvik Saw & Tool Corp 47 Warren New York 7 NY  
 Turner Brass Works 821 Park Av Sycamore Ill  
 Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa  
 Wall (P) Mfg Co 200 Erie Grove City Pa

### ► TOWERS, SELF-RAISING

Beaver Art Metal Corp Ellwood City Pa  
 Bil-Jax Inc 100 Wyse Rd Archbold Ohio  
**JAEGER MACHINE CO 500 W SPRING CO-LUMBUS 16 OHIO**  
 Mixermobile Mfrs 8027 NE Killingsworth Portland 2 Ore  
 Patent Scaffolding Co 38-21 12th Long Island City 1 NY

### ► TRACTORS

**ALLIS CHALMERS MFG CO 1126 S 70TH MILWAUKEE 1 WIS**  
**AMERICAN TRACTOR CORP TERRA DRIVE CHURUBUSCO IND**  
 Automatic Transportation Co 101 W 87th Chicago 20 Ill  
 Buda Co 15424 Commercial Av Harvey Ill  
 Case (J I) Co 702 State Racine Wis  
 Caterpillar Tractor Co 600 W Washington East Peoria 8 Ill  
 Clark Equipment Co Industrial Truck Div Battle Creek 67 Mich  
 Deere & Co Moline Ill  
 Detroit Hoist & Machine Co 8207 Morrow Detroit 11 Mich  
 Elwell-Parker Electric Co 4156 St Clair Av Cleveland 3 Ohio  
 Ford Tractors Div Ford Motor Co 2500 E Maple Rd Birmingham Mich  
 Four Wheel Drive Auto Co E 12th Clintonville Wis  
 Hough (Frank G) Co 811 Sunnyside Av Libertyville Ill  
 Industrial Truck Div Clark Equipment Co Battle Creek 41 Mich  
 International Harvester Co 180 N Michigan Chicago 1 Ill  
 Mack Trucks Inc Empire State Bldg New York 1 NY  
 Market Forge Co 35 Garvey Everett 49 Mass  
 Massey-Harris Co Racine Wis  
 Midland Co 1200 W Rawson Av South Milwaukee Wis  
 Mixermobile Mfrs 8027 NE Killingsworth Portland 2 Ore  
**OLIVER CORP 400 W MADISON CHICAGO ILL**

### ► TRAILERS

Beall Pipe & Tank Corp 12005 N Burgard Portland 3 Ore  
 Daybrook Hydraulic Corp Bowling Green Ohio  
 Dorsey Trailers Elba Ala  
 Four Wheel Drive Auto Co E 12th Clintonville Wis  
 French & Hecht Div Kelsey-Hayes Wheel Co 50 Farnam Davenport Iowa  
 Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
 Kingham Trailer Co 15th & Hill Louisville Ky  
 Knox Corp Knox Bldg Thomson Ga  
 Lansing Co 603 N Cedar Lansing Mich  
 Market Forge Co 35 Garvey Everett 49 Mass  
 Mustang Trailer Co 6114 Forest Park Dallas 19 Tex  
 Nabors (W C) Co Mansfield La  
 Perfection Steel Body Co Gallion Ohio  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S NINTH LOUISVILLE 1 KY**  
 Texas Sheet Metal & Mfg Co Dallas 2 Tex  
 Trailmobile Co 31st & Robertson Cincinnati 9 Ohio  
 Utility Trailer Mfg Co Box 3608 Terminal Annex Los Angeles 54 Cal  
 Wentworth & Irwin Inc 128 NE Oregon Portland 14 Ore  
 Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

## ▶ TRANSITS

Brunson Instrument Co 1405 Walnut Kansas City Mo  
Starrett (L S) Co 101 Crescent Athol Mass  
WARREN-KNIGHT CO 136 N 12TH PHILADELPHIA 7 PA  
WHITE (DAVID) CO 315 W COURT MILWAUKEE WIS

## ▶ TRAPS, GREASE

Boston Brass Co Inc 137 Beacon Waltham 54 Mass  
Clow (James B) & Sons 201-99 N Talman Av Chicago 80 Ill  
CRANE CO 836 S MICHIGAN AV CHICAGO ILL  
Evens & Howard Sewer Pipe Co 5200 Manchester Av St Louis 10 Mo  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
NATIONAL CLAY PIPE MFRS INC 100 N LASALLE CHICAGO 2 ILL  
Richmond Engineering Co Inc 7th & Hospital Richmond 5 Va  
Vestal Mfg Co Box 152 Sweetwater Tenn  
Zurn (J A) Mfg Co Erie Pa

## ▶ TREADS, STAIR, BRASS

CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN

## ▶ TREADS, STAIR, SAFETY

American Mason Safety Tread Co 125 Perry Lowell Mass  
BEHR-MANNING CORP DIV NORTON CO 1554 SEIFERT TROY NY  
Boston Woven Hose & Rubber Co Box 1071 Boston 3 Mass  
Bradley Lumber Co of Ark Warren Ark  
BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN  
Camp Co Inc 6958 S State Chicago 21 Ill  
CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO  
CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN  
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA  
Decorite Inc 2116 Peachtree Rd NW Atlanta Ga  
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
Logan Co 201 Cabel Louisville 6 Ky  
MOORE (GOODLOE E) CO BOX 846 DANVILLE ILL  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Safe Tread Co Inc 30 Vesey New York 7 NY  
Servicised Prods Corp 6051 W 65th Chicago 38 Ill  
Standard Bronze Co 179 W 5th Bayonne 20 NJ  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
Wheeling Corrugating Co Wheeling W Va  
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa  
Wooster Prods Inc Leohr & Wyant Wooster Ohio  
YOUNGSTOWN MFG INC 66-76 S PROSPECT YOUNGSTOWN OHIO

## ▶ TREADS, STAIR, STEEL

American Abrasive Metals Co 460 Coit Irvington NJ  
American Mason Safety Tread Co 125 Perry Lowell Mass  
Blaw-Knox Equipment Div Blaw Knox Co Farmers Bank Bldg Pittsburgh 30 Pa  
Decatur Iron & Steel Co 2nd St W Decatur Ala  
Fremont Rubber Co 165 McPherson Hwy Fremont Ohio  
Industrial Iron Wks Box 4625 6011 SW Macadam Portland 1 Ore  
International Steel Co 1321 Edgar Evansville 7 Ind  
Logan Co 201 Cabel Louisville 6 Ky  
Metal Crafters East Av at 18th NE Cedar Rapids Iowa  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Smith (E P) Wire & Iron Wks 2340 Clybourn Av Chicago 14 Ill  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
Wagner Iron Wks 1905 S 1st Milwaukee 1 Wis  
Western Foundry Co 2400 SW Water Av Portland 1 Ore  
Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa

## ▶ TREADS, STAIR, WOOD

Anderson Tully Co Box 28 Memphis Tenn  
Angelina Hardwood Sales Co Box 1020 (Wilson St) Lufkin Tex  
Arkansas Oak Flooring Co 2200 W Fifth Av Pine Bluff Ark

Bradley Lumber Co of Ark Warren Ark  
BRUCE (E L) CO 1648 THOMAS AV MEMPHIS 1 TENN  
Burke Millwork Co Fremont Bridge Seattle 3 Wash  
CURTIS COS INC 1200 S SECOND AV CLINTON IOWA  
Dierks Lumber & Coal Co 700 Dierks Bldg Kansas City 6 Mo  
FAIR (D L) LUMBER CO BOX 309 LOUISVILLE MISS  
Farley & Leetscher Mfg Co Dubuque Iowa  
Farrin (M B) Lumber Co Spring Grove & Sta Av Cincinnati Ohio  
Frost Lumber Industries Drawer 1125 Shreveport 90 La  
Georgia-Pacific Plywood Co 600 N Capitol Way Olympia Wash  
Goshen Sash & Door Co E Purl Goshen Ind  
Hardwood Corp of America Box 1091 Asheville NC  
Harris Mfg Co Grover at Walnut Johnson City Tenn  
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
Hyde Murphy Co Murphy Bldg Ridgeway Pa  
Kendall Lumber Corp Grant Bldg Box 1467 Pittsburgh 19 Pa  
MacMillan & Bloedel Ltd 837 Hastings Vancouver BC Canada  
Marquart Millwork Co Oshkosh Wis  
Memphis Hardwood Flooring Co 1591 Thomas Memphis 7 Tenn  
Memphis Oak Flooring Co Memphis Tenn  
Midwest Jobbers Inc 3300-08 S Racine Av Chicago 8 Ill  
Miller Bros Co Box 540 Johnson City Tenn  
Morgan Co 520 Oregon Oshkosh Wis  
Nickey Bros Inc 2700 Summer Av Memphis Tenn  
Phillips-Wood Prods Inc Box 699 Brookhaven Miss  
Scottdale Wood Prods Inc Box 32 Scottdale Pa  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
Spokane Sash & Door Co Spokane Wash  
Triplett Lumber Co Inc Box 738 Lenoir NC  
Virginia Oak Flooring Co Inc 414 Dora Hwy Box 969 Pulaski Va

## ▶ TRENCHERS

ARPS CORP NEW HOLSTEIN WIS  
Charles Machine Wks 625-30 Birch Perry Okla  
Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio  
Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
Kwik-Mix Co Port Washington Wis  
Northwest Engineering Co 135 S LaSalle Chicago 3 Ill  
OLIVER CORP 400 W MADISON CHICAGO 6 ILL  
Schild Bantam Co 221 Park Waverly Iowa  
SHERMAN PRODS INC 14 MILE & COOLIDGE RDS ROYAL OAK MICH  
Unit Crane & Shovel Corp 6411 W Burnham Milwaukee 14 Wis  
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

## ▶ TRIM, METAL SIDING

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY  
MACLANBURG DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA  
Penn Supply & Metal Corp 1831 N Fifth Philadelphia 22 Pa  
Southern States Iron Roofing Co Stiles Av & Louisville Rd Savannah Ga  
Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn

## ▶ TRUCK BODIES

Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill  
Beall Pipe & Tank Corp 12005 N Burgard Portland Ore  
Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa  
Fordyce-Crossett Lumber Co Fordyce Ark  
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
Gaynor (E S) Lumber Co Sioux City Iowa  
General Implement Corp Terminal Tower Cleveland 13 Ohio  
Hercules Steel Prods Corp Galion Ohio  
Indiana Body Co 615 S H St Richmond Ind  
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL  
MCABE POWERS AUTO BODY CO 5900 N BROADWAY ST LOUIS 15 MO  
MORRISON STEEL PRODS INC 601 AMHERST BUFFALO 7 NY  
Perfection Steel Body Co Galion Ohio  
Pointer-Willamette Co 240 NE Oregon Portland 14 Ore  
Schaefer Body 5009 Superior Cleveland 3 Ohio

Spokane Sash & Door Co Spokane Wash  
Stahl Metal Prods 3490 W 140th Cleveland Ohio  
Stoughton Cab & Body Co Stoughton Wis  
Wentworth & Irwin Inc 128 NE Oregon Portland 14 Ore  
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

## ▶ TRUCK BODIES, CONCRETE, DUMP

Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
Maxon Construction Co Inc 131 N Ludlow Dayton 2 Ohio  
Supremix 401 Grace Adrian Mich

## ▶ TRUCK BODIES, DUMP

Anthony Co Streator Ill  
Daybrook Hydraulic Corp Bowling Green Ohio  
Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa  
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
Galion All-Steel Body Co Galion Ohio  
Heil Co 3000 W Montana Milwaukee Wis  
Hercules Steel Prods Corp Galion Ohio  
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex  
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL  
Marion Metal Prods Co Cheney Av at Otis Marion Ohio  
Maxon Construction Co Inc 131 N Ludlow Dayton 2 Ohio  
Perfection Steel Body Co Galion Ohio  
Pointer-Willamette Co 240 NE Oregon Portland 14 Ore  
St Paul Hydraulic Hoist Div Wood (Gar) Industries Inc 2207 University Av SE Minneapolis 14 Minn  
Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

## ▶ TRUCK BODIES, ROLLOFF

Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
Honeyman Mfg Co Portland Ore  
R-B Company 1919 Guinotte Av Kansas City Mo  
Schaefer Body 5009 Superior Cleveland 3 Ohio  
Wentworth & Irwin Inc 128 NE Oregon Portland 14 Ore

## ▶ TRUCKS, MOTOR

Autocar Co Lancaster Pike Ardmore Pa  
Brockway Motor Co Inc 106 Central Av Cortland NY  
CHEVROLET MOTOR DIV GENERAL MOTORS CORP GENERAL MOTORS BLDG DETROIT 2 MICH  
Chrysler Corp 12200 E Jefferson Detroit 14 Mich  
Diamond T Motor Car Co 4401 W 26th Chicago 23 Ill  
DODGE BROS DIV CHRYSLER CORP 7900 JOSEPH CAMPAU AV DETROIT MICH  
Federal Motor Truck Div Federal Awick Corp 5780 Federal Av Detroit 8 Mich  
FORD MOTOR CO DEARBORN MICH  
Four Wheel Drive Auto Co E 12th Clintonville Wis  
GMC Truck & Coach Div General Motors Corp Pontiac Mich  
International Harvester Co 180 N Michigan Av Chicago 1 Ill  
Kenworth Motor Truck Corp 8801 E Marginal Way Seattle 11 Wash  
Mack Trucks Inc Empire State Bldg New York 1 NY  
Marmon Herrington Co Inc 1545 W Washington Indianapolis 7 Ind  
Milford Crane & Machine Co Milford Conn  
Prime Mover Co Muscatine Iowa  
Reo Motors Inc 1331 S Washington Lansing 20 Mich  
Studebaker Corp 635 S Main South Bend 27 Ind  
Ward La France Truck Corp Grand Central Av Elmira NY  
White Motor Co 842 E 79th Cleveland 1 Ohio  
Willys-Overland Motors Inc Wolcott Bldg Toledo 1 Ohio

## ▶ TRUSSES, ROOF, STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Bridge Div US Steel Sub Corp 525 William Penn Pl Pittsburgh 30 Pa  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich  
Houston Blow Pipe & Sheet Metal Wks Box 1692 Houston Tex

International Steel Co 1321 Edgar Evansville 7 Ind  
 Macomber Inc 1925 Tenth Canton Ohio  
**MESKER (GEORGE L) STEEL CORP 400 NW FIRST EVANSVILLE 8 IND**  
 Metropolitan Greenhouse Mfg Corp 1851 Flushing Av Brooklyn 37 NY  
 St Paul Foundry & Mfg Co 500 Como Av St Paul 3 Minn  
 Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
 Southern Wire & Iron Wks 441 Memorial Dr SE Atlanta Ga  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**

### ▶ TRUSSES, ROOF, WOOD

**AMERICAN ROOF TRUSS CO 1030 E 87TH CHICAGO ILL**  
 Green Lumber Co Inc Magnolia St Laurel Miss  
 Illinois Lumber Mfg Co Inc Cairo Ill  
 McKeown Bros Co 5303 S Keeler Av Chicago 32 Ill  
**RILCO LAMINATED PRODS INC 2680 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**  
 Roof Structures Inc 45 W 45th New York NY  
 Super-Structures Inc 1015 S Jefferson Albert Lea Minn  
 Tacoma Lumber Fabricating Co Tacoma 1 Wash  
**TIMBER ENGINEERING CO 1319 18TH ST NW WASHINGTON 6 DC**  
 Timber Structures Inc Box 3782 Portland 8 Ore  
 Timber-Tech Corp Box 327 Lebanon Ore  
 Unit Structures Inc Peashtigo Wis  
**WEYERHAEUSER SALES CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ▶ TUBS, LAUNDRY

Alberene Stone Corp of Va 417 Fourth Av New York NY  
**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
**ELJER CO FORD CITY PA**  
 General Ceramics & Steatite Corp Sanitary Ware Div 21 Crows Mill Rd Keasbey NJ  
**KOHLER CO KOHLER WIS**  
**RICHMOND RADIATOR CO BOX 111 METCHEN NJ**  
 Ruslander & Sons Inc 18 Letchfield Buffalo 13 NY  
 Standard-Elsmere Granite Co 1754 N Spaulding Chicago Ill  
 Vermont Soapstone Co Perkinsville Vt

### ▶ UNITS, UTILITY

Dwyer Prods Corp Calumet & Holiday Michigan City Ind  
 Earle Kitchen Unit Co 116 E 63rd New York 21 NY  
 Rock Island Millwork Co Rock Island Ill

### ▶ VALLEYS, METAL, ROOF

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Badger Corrugating Co 1801-39 West Av S La Crosse Wis  
**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV NE CANTON 5 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Central Prods Co 57 Forest Battle Creek Mich  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
 Continental Steel Corp 1109 S Main Kokomo Ind  
**FOLLANSBEE STEEL CORP 140 STANWIX GATEWAY CENTER BLDG #2 PITTSBURGH 22 PA**  
 Gary Pioneer Steel Corp Gary Ind  
 Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
 Illinois Zinc Co 2959 W 47th Chicago 32 Ill  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
 LaCrosse Steel Roofing & Corrugating Co 227 Jay LaCrosse Wis  
 Newport Steel Corp 9th & Lowell Newport Ky  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
 Penn Supply & Metal Corp 1831 N 5th Philadelphia Pa  
 Potts Farrington Co 1224 Cherry Philadelphia 7 Pa  
 Quaker State Metals Co Manheim Pike at City Bypass Lancaster Pa  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY**  
**ST PAUL CORRUGATING CO SOUTH END WABASHA BRIDGE ST PAUL 1 MINN**

Tennessee Coal & Iron Div United States Steel Corp Fairfield Ala  
 Tennon Bros Inc 450 N Bellevue Memphis 1 Tenn  
 United States Steel Co 525 William Penn Pl Pittsburgh 30 Pa  
 Wheeling Corrugating Co Wheeling W Va

### ▶ VALVES, PLUMBING, HEATING, ETC

**AMERICAN RADIATOR & STANDARD SANITARY CORP BESSEMER BLDG PITTSBURGH 30 PA**  
**BELL & GOSSETT CO 8200 AUSTIN MORTON GROVE ILL**  
 Boston Brass Co Inc 137 Beacon Waltham 54 Mass  
 Bridgeport Brass Co 30 Grand Bridgeport 2 Conn  
 Bristol Co Waterbury Conn  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
 Coyne & Delaney Co 828 Kent Av Brooklyn 5 NY  
**CRANE CO 836 S MICHIGAN AV CHICAGO ILL**  
 Detroit Brass & Malleable Wks 100 S Campbell Detroit 9 Mich  
 Dick Bros Inc 3rd & Buttonwood Reading Pa  
 Dole Valve Co 1923 Carroll Av Chicago 12 Ill  
**DUNKIRK RADIATOR CORP 85 MIDDLE RD DUNKIRK NY**  
 Durst Mfg Co 409 Lafayette New York 3 NY  
 Eddy Valve Co Box 363 Waterford NY  
**ELJER CO FORD CITY PA**  
 Fairbanks Co 395 Lafayette New York 3 NY  
 Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
 Hoffman Specialty Co 1001 York Indianapolis 7 Ind  
 Imperial Brass Mfg Co 1200 W Harrison Chicago Ill  
 Jenkins Bros 100 Park Av New York 17 NY  
 Locke Regulator Co Salem Mass  
 McDonnell & Miller Inc 3500 N Spaulding Av Chicago 18 Ill  
**MINNEAPOLIS HONEYWELL REGULATOR CO 2747 S FOURTH AV MINNEAPOLIS 8 MINN**  
 Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
 Mueller Co Decatur Ill  
 Parker (Charles) Co 50 Hanover Meriden Conn  
 Perflex Corp 500 W Oklahoma Milwaukee Wis  
 Powers Regulator Co 3400 Oakton Skokie Ill  
 Price Pfister Brass Mfg Co 3011 Humboldt Los Angeles 31 Cal  
 Rockford Brass Wks 700 S Main Rockford Ill  
 Rockwood Sprinkler Co 38 Harlow Worcester 5 Mass  
 Schaible Co 1086 Summer Cincinnati 4 Ohio  
 Sloan Valve Co 4300 W Lake Chicago Ill  
 Taco Heaters Inc 137 South Providence RI  
**THRUSH (H A) CO PERU IND**  
 Trane Co 3rd & Cameron LaCrosse Wis  
 Triplex Heating Specialties Co 242-68 Grant Peru Ind  
 Walworth Co 60 E 42nd New York 17 NY  
 Zurn (J A) Mfg Co Erie Pa

### ▶ VANES, WEATHER

Bantam Mfg Co Inc 290 Rutherford Av Boston 11 Mass  
 Burkett Lightning Rod Co Park Av & Vine Fremont Ohio  
 Davis & Siehl Co 3042 Hamilton Av Box 78 Sta A Cincinnati 23 Ohio  
 Electra Protection Co 11 N Pearl Albany 7 NY  
 Fiske (J W) Iron Wks 87 Park Pl New York 7 NY  
**INDEPENDENT PROTECTION CO INC 1603-09 S MAIN GOSHEN IND**  
 James Mfg Co Fort Atkinson Wis  
 Morgan Wightman Supply Co 1541 Salzman Av St Louis Mo  
 National Lightning Protection Co 2340 Eugene St Louis 3 Mo  
**SAMCOE (WM J) IRON CO 917 MILITARY RD KENMORE 17 NY**  
 Starline Inc 300 W Front Harvard Ill  
 Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
 Whitehall Metal Studios Inc 469 E Ohio Chicago Ill

### ▶ VAPOR BARRIERS

Air-O-Cel Co 22000 Woodward Av Detroit 20 Mich  
 American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio  
**AMERICAN SISALKRAFT CORP ATTLEBORO MASS**  
 Angier Corp Fountain St Framingham Mass  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC 47 WILSON EAST WALPOLE MASS**

**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA**  
**INFRA INSULATION INC 10 MURRAY NEW YORK NY**  
 Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill  
 Kimberly-Clark Corp 128 N Commercial Neenah Wis  
 Meadows (W R) Inc 2 Kimball Elgin Ill  
 Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
 Protective Papers Inc Union Ill  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE KY**  
**RICKKRAFT CO 510 N DEARBORN CHICAGO 10 ILL**  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**

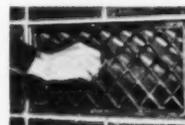
### ▶ VENEERS, HARDWOOD

Aetna Plywood & Veneer Co 1732 Elston Av Chicago 22 Ill  
 Albany Plywood Co Albany Ore  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
 Braund Harmon Co Wabek Bldg Birmingham Mich  
**HIGGINS INC BOX 8001 NEW ORLEANS LA**  
 Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich  
 Nickey Bros Inc 2700 Summer Av Memphis Tenn  
 Pearl City Plywood Co Inc 1 Elam Jamestown NY  
 Plytex Corp 1731 Elston Av Chicago 22 Ill  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**  
 Weber Veneer & Plywood Co Shawano Wis

### ▶ VENTILATORS, FOUNDATION

Adams Co Box 268 Dubuque Iowa  
 Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City 6 Okla  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Arex Co 612 N Michigan Av Chicago 11 Ill  
**BENNETT-IRELAND INC 23 STATE NORTH NY**  
**BRUCE (E L) CO BOX 397 1648 THOMAS AV MEMPHIS 1 TENN**  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Fiske (J W) Iron Wks 80 Park Pl New York 7 NY  
**HAMLIN PRODS INC BOX 2016 LITTLE ROCK ARK**  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
**LEIGH BLDG PRODS DIV AIR CONTROL PRODS INC GLADE AT LARCH COOPERSVILLE MICH**  
**LESLIE WELDING CO INC 2943 W CARROLL AV CHICAGO 12 ILL**  
**MACKLANBURG DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

## M-D FOUNDATION VENT WITH ADJUSTABLE SHUTTER



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See Pages 14-17  
**SOLD BY HARDWARE & LUMBER DEALERS**



**MACKLANBURG-DUNCAN CO. OKLAHOMA CITY, OKLA.**

**MAJESTIC CO HALL ST HUNTINGTON IND**  
 Moore Specialties Inc Div Insul Mastics Lab 3152 N Miami Av Miami Fla  
 Morgan Wightman Supply Co 1541 Salzman Av St Louis Mo  
 Sin Jn Prods Co 5236-40 Fairlawn Av Baltimore 15 Md  
 Skillman Hdwe Co Edgewood Av Trenton 4 NJ  
 Standard Steel Cabinet Co 3701 Milwaukee Av Chicago 41 Ill  
 Sweet (A L) Iron Wks 151 Glenwood Av Medina NY

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Wiremold's  
big  
4  
for better  
homes  
and  
buildings!**

## WIREMOLD One-Piece Surface Raceways

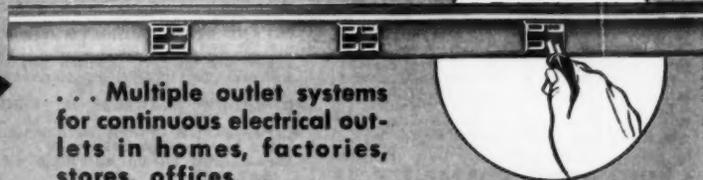
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carry electrical power any-  
where—right on the surface!



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... Multiple outlet systems  
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stores, offices.

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carry power or communica-  
tion lines overfloor to the  
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Tennessee Fabricating Co 1490 Grimes Mem-  
phis Tenn  
**UNITED STATES GYPSUM CO 300 W**  
**ADAMS CHICAGO 6 ILL**  
Vestal Mfg Co Box 152 Sweetwater Tenn  
Weatherguard Service Inc 564 Jackson Av  
New York 55 NY

### ▶ VENTILATORS, GLASS BLOCK, WALL

Airolite Co Marietta Ohio  
**AIR RECTIFIERS INC 3734 SOUTHPORT**  
**AV CHICAGO 13 ILL**  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Arex Co 612 N Michigan Av Chicago 11 Ill  
Blue M Electric Co 306 W 69th Chicago 21 Ill  
Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Consumers Co 79 W Monroe Chicago 3 Ill  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Kaptor (Joseph J) & Co 121st & 90th St  
Palon Park Ill  
**KIMBLE GLASS CO SUBSID OWENS-ILLI-**  
**NOIS GLASS CO BOX 1035 TOLEDO 1**  
**OHIO**  
Modern Stainless Specialties Co 306 W 69th  
Chicago 21 Ill  
Monarch Metal Weatherstrip Corp 6333 Etzel  
Av St Louis 14 Mo  
**PITTSBURGH PLATE GLASS CO 632 FORT**  
**DUESNE BLVD PLYSBURG 22 PA**  
Winco Ventilator Co 4725 Goodfellow St  
Louis 20 Mo  
Wisconsin Face Brick & Supply Corp 4485  
N Green Bay Av Milwaukee Wis

### ▶ VENTILATORS, PORTABLE

Aerovent Fan Co Inc Ash & Beacon Piqua  
Ohio  
**HERMAN NELSON 215 CENTRAL AV**  
**LOUISVILLE KY**

### ▶ VENTILATORS, ROOF REVOLVING

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
**CECO STEEL PRODS CORP 5601 W 26TH**  
**CHICAGO 50 ILL**  
Clay Equipment Corp 1148 Blake Cedar Falls  
Iowa  
Danzer Metal Wks Hagerstown Md  
Ilg Electric Ventilating Co 2850 N Pulaski Av  
Chicago 41 Ill  
**INLAND STEEL PRODS CO 4045 W BURN-**  
**HAM MILWAUKEE 1 WIS**  
James Mfg Co Fort Atkinson Wis  
Klauser Mfg Co 9th & Washington Dubuque  
Iowa  
Louden Machinery Co 1120 Broadway Fair-  
field Iowa  
Penn Supply & Metal Corp 1831 N 5th Phila-  
delphia 22 Pa  
Robbins & Myers Inc 1345 Lagonda Av  
Springfield Ohio  
**ST PAUL CORRUGATING CO SOUTH END**  
**WABASHA BRIDGE ST PAUL 1 MINN**  
Simplex Brooder Stove Co 220 Grandville Av  
SW Grand Rapids 2 Mich  
Sioux Steel Co Sioux Falls SD  
Starline Inc 300 W Front Harvard Ill  
**UNITED STATES GYPSUM CO 300 W**  
**ADAMS CHICAGO 6 ILL**  
Warner Ventilator Co 217 E Spring La-  
Grange Ind

### ▶ VENTILATORS, ROOF, WALL & WINDOW

Adams Co Box 268 Dubuque Iowa  
Aerovent Fan Co Inc Ash & Beacon Piqua  
Ohio  
Air Devices Inc 185 Madison Av New York  
16 NY  
Airmaster Corp 4317 Ravenswood Av Chi-  
cago 13 Ill  
Airolite Co Marietta Ohio  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
American Blower Corp Div American Ra-  
diator & Standard Sanitary Corp Detroit  
32 Mich  
American Sheet Metal Wks 325 N Alexander  
New Orleans La  
Arex Co 612 N Michigan Av Chicago 11 Ill  
Atkinson Mfg Co 502 S James Ludington Mich  
Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis  
Berns Mfg Co 3050 N Rockwell Chicago 18  
Ill  
Brower Mfg Co Box 251 Quincy Ill  
Busch (A G) & Co 2632 N Central Av Chi-  
cago 39 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE**  
**LOCKLAND CINCINNATI 15 OHIO**  
**CECO STEEL PRODS CORP 5601 W 26TH**  
**CHICAGO 50 ILL**  
Chelsea Fan & Blower Co Inc 639 South Av  
Plainfield NJ

Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Damp Vent Co 210 17th Box 203 Bettendorf  
Iowa  
Diehl Mfg Co 1185 Funderne Av Somerville  
NJ  
Dopley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
**EMERSON ELECTRIC MFG CO 8100 FLO-**  
**RISSANT AV ST LOUIS 21 MO**  
Farwell Ozmun Kirk & Co 108 Fairfield Av  
W St Paul 1 Minn  
**FASCO INDUSTRIES INC 255 N UNION**  
**ROCHESTER 2 NY**  
Franklin Equipment Co Monticello Iowa  
**HAMLIN PRODS INC BOX 2016 LITTLE**  
**ROCK ARK**  
Harris Inc 200 E Long Columbus 15 Ohio  
**HERMAN NELSON 215 CENTRAL AV**  
**LOUISVILLE KY**  
Hohmann & Barnard Inc 204 E 33rd New  
York 16 NY  
**HOPE'S WINDOWS INC 84 HOPKINS AV**  
**JAMESTOWN NY**  
Houston Blow Pipe & Sheet Metal Wks Box  
1692 Houston Tex  
Hudson (H D) Mfg Co Dept D 16 589 E  
Illinois Chicago 11 Ill  
Ideal Ventilator Co 160 Atlantic Av Provi-  
dence 7 RI  
Ilg Electric Ventilating Co 2850 N Crawford  
Av Chicago 41 Ill  
**INLAND STEEL PRODS CO 4045 W BURN-**  
**HAM MILWAUKEE 1 WIS**  
James Mfg Co Fort Atkinson Wis  
Kerchen Co 612 N Michigan Av Chicago 11  
Ill  
Krauser-Boyd 553 River Rd North Tona-  
wanda NY  
LaCrosse Steel Roofing & Corrugating Co  
227 Jay LaCrosse Wis  
Larson (Chas O) Co Av "G" & C&NW Ry  
Sterling Ill  
**LESLIE WELDING CO INC 2943 W CAR-**  
**ROLL AV CHICAGO 12 ILL**  
**LAU BLOWER CO 2001 HOME AV DAYTON**  
**7 OHIO**  
**LEIGH BUILDING PRODS DIV AIR CON-**  
**TROL PRODS INC GLADE AT LARCH**  
**COOPERSVILLE MICH**  
Louden Machinery Co 1120 Broadway Fair-  
field Iowa  
Modern Stainless Specialties Co Div Modern  
Electric Laboratory 306-08 W 69th Chi-  
cago 21 Ill  
National Screen Co Inc Madison Av Extended  
Suffolk Va  
Olson Mfg Co 620-24 S Broadway Albert  
Lea Minn  
Paasche Airbrush Co 1909 W Diversey Pkwy  
Chicago 14 Ill  
Penn Supply & Metal Corp 1831 N 5th Phila-  
delphia 22 Pa  
Pennsylvania Wire Glass Co 1612 Market  
Philadelphia 3 Pa  
Plymouth Stamped Metal Co Gallion Ohio  
**PRYNE & CO INC 140 N TOWNE PO-**  
**MONA CAL**  
Rene Craft Prods 406 Linden Av Wilmette  
Ill  
Riesner Vent Brick Corp 353 E 78th New  
York 21 NY  
Rudeen (N H) Co 1645 Hennepin Av Min-  
neapolis 3 Minn  
St Louis Blow Pipe & Heater Co 1948 N  
9th St Louis 6 Mo  
**ST PAUL CORRUGATING CO SOUTH END**  
**WABASHA ST BRIDGE ST PAUL 1**  
**MINN**  
**SAMCOE (W J) IRON CO 917 MILITARY**  
**RD KENMORE 17 NY**  
Schumacher (F E) Co 200 Mill Hartville  
Ohio  
Seco Lite Mfg Co 4916 Easton Av St Louis  
Mo  
Signal Electric Mfg Co 1821 13th Menominee  
Mich  
Smith (F A) Mfg Co 255 N Union Rochester  
5 NY  
Standard Steel Cabinet Co 3701 Milwaukee  
Av Chicago 41 Ill  
Starline Inc 300 W Front Harvard Ill  
Stewart Mfg Co 3205-7 E Washington In-  
dianapolis 1 Ind  
Sutton (O A) Corp 1812 W 2nd Wichita Kan  
Swartwout Co 18568 Euclid Av Cleveland 12  
Ohio  
Trane Co 3rd & Cameron LaCrosse Wis  
**UNITED STATES GYPSUM CO 300 W**  
**ADAMS CHICAGO 6 ILL**  
Uno Ventilator Co 1236 Eastern Av Malden  
48 Mass  
Van Noorden (E) Co 100 Magazine Boston  
19 Mass  
Vesta Mfg Co Box 152-A Sweetwater Tenn  
Wayne Agricultural Wks Inc Box 1006  
Goldsboro NC  
Western Appliance Co Inc 5646-50 Grand  
River Av Detroit 8 Mich  
**WESTINGHOUSE ELECTRIC CORP BOX**  
**868 PITTSBURGH 30 PA**  
Willis Steel Corp Box 149 Galesburg Ill  
Winco Ventilator Co 4725 Goodfellow St  
Louis Mo

### ▶ VERMICULITE

Badger Corrugating Co 1801-39 West Av S  
LaCrosse Wis

Baker-Thomas Line & Cement Co Phoenix  
Ariz  
California Zonolite Co Sacramento Cal  
Graybeal (C R) & Sons Box 198 Roan  
Mountain Tenn  
Intermountain Insulation Co Salt Lake City  
Utah  
Mikolite Sales Corp Encampment Wyo  
Robinson Insulation Co Box 1419 Great Falls  
Mont  
Schundler (F E) & Co Inc 504 Railroad  
Joliet Ill  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chi-  
cago 1 Ill  
Texas Vermiculite Co 303 Brazos Austin Tex  
Vermiculite Prods Corp Washington DC  
Vermiculite Prods Inc 515 Madison Kansas  
City Mo  
Western Mineral Prods Co 1720 Madison NE  
Minneapolis Minn  
**ZONOLITE CO 135 S LASALLE CHICAGO**  
**3 ILL**

### ▶ VISES

Armstrong Bros Tool Co 5300 W Arm-  
strong Chicago 30 Ill  
Athol Machine & Foundry Co 82 South St  
Athol Mass  
Billings & Spencer Co 12 Laurel Hartford  
Ohio  
Birtman Electric Co 4140 W Fullerton Chi-  
cago 39 Ill  
Capewell Mfg Co 60 Governor Hartford 2  
Conn  
Champion Blower & Forge Co 1947 Char-  
lotte Lancaster Pa  
Champion Hardware Co 3300 Miller Geneva  
Ohio  
Columbian Vise & Mfg Co 9020 Bessemer  
Av Cleveland 4 Ohio  
Desmond-Stephan Mfg Co 425 S Walnut Ur-  
bana Ohio  
General Hdwe Co 3618 W Pierce Milwaukee  
4 Wis  
General Hdwe Mfg Co Inc 80 White New  
York 13 NY  
Graham (John H) & Co Inc 105 Duane New  
York 8 NY  
Grand Specialties Co 3101 W Grand Av Chi-  
cago 22 Ill  
Littletown Hdwe Co Littletown Pa  
Millers Falls Co Wells & Devens Greenfield  
Mass  
Milwaukee Hay Tool Co 2773 S 29th Mil-  
waukee 46 Wis  
North Bros Mfg Co 228 Lehigh Av Phila-  
delphia 33 Pa  
Parker (Charles) Co 50 Hanover Meriden  
Conn  
Peck, Stow & Wilcox Co Mill St Southington  
Conn  
Reid Tiger Prods Inc 20 N Wacker Dr Chi-  
cago 6 Ill  
**RICHARDS-WILCOX MFG CO 220 THIRD**  
**AURORA ILL**  
St Paul Foundry & Mfg Co 500 Como Av  
St Paul 3 Minn  
**SARGENT & CO WATER ST NEW HAVEN**  
**CONN**  
**STANLEY WKS 111 ELM AV NEW BRIT-**  
**AIN CONN**  
Tesco Inc 110 S Norfolk Tulsa Okla

### ▶ WALL COPING

Aeme Brick Co Box 425 Fort Worth Tex  
American Vitrified Prods Co 701 National  
City Bond Bldg Cleveland 14 Ohio  
Bowerston Shale Co Bowerston Ohio  
Cannelton Sewer Pipe Co 4th & Washington  
Cannelton Ind  
Clay City Pipe Co Uhrichsville Ohio  
Columbia Pipe Co Columbia SC  
Dennison Sewer Pipe Corp 3334 Prospect  
Av Cleveland 14 Ohio  
Denver Sewer Pipe & Clay Co 4501 Fox Box  
2329 Denver 1 Colo  
Dickey (W S) Clay Mfg Co 607 Commerce  
Trust Bldg Kansas City 6 Mo  
Evans Pipe Co Uhrichsville Ohio  
Evans & Howard Sewer Pipe Co 5200 Man-  
chester Av St Louis 10 Mo  
Gagnon Clay Prods Co 526 S Broadway  
Green Bay Wis  
Interstate Brick Co 3100 S 11th E Box 144  
Sugarhouse Sta Salt Lake City 6 Utah  
Iowa Pipe & Tile Co Des Moines Iowa  
Junction City Clay Co 3334 Prospect Av  
Cleveland 15 Ohio  
Kaul Clay Mfg Co Spring St Box 128 To-  
ronto Ohio  
**LACLEDE CHRISTY 2801 HEREFORD ST**  
**LOUIS 9 MO**  
Lehigh Sewer Pipe & Tile Co Box 728 Fort  
Deige Iowa  
Logan Clay Prods Co Logan Ohio  
Lovell Clay Prods Co Lovell Wyo  
Minneapolis Builders Supply Co 927 Second  
Av Minneapolis Minn  
**NATIONAL CLAY PIPE MFRS INC 100 N**  
**LASALLE CHICAGO 2 ILL**  
Owensboro Sewer Pipe Co Owensboro Ky  
Paton Clay Mfg Co Foot of Terra Cotta  
Av Patton Pa  
Pomona Terra-Cotta Co Pomona NC  
Red Wing Sewer Pipe Corp Box 115 Red  
Wing Minn

Robinson Clay Prods Co Second National Bank Bldg Akron 9 Ohio  
Stillwater Clay Prods Co 3334 Prospect Av Cleveland 15 Ohio  
Streator Drain Tile Co Streator Ill  
Superior Clay Corp Uhrichville Ohio  
Texas Vitriified Pipe Co Box 111 Mineral Wells Tex  
Union Clay Mfg Corp Upper Broad Binghamton NY  
Universal Sewer Pipe Corp 1500 Union Commerce Bldg Cleveland 14 Ohio  
Washington Brick & Lime Co Box 2198 Spokane 8 Wash  
What Cheer Clay Prods Co What Cheer Iowa  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ▶ WALLBOARD, ALUMINUM FOIL COVERED

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ WALLBOARD, ASBESTOS CEMENT

Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO  
HOMASOTE CO 1935 HARVEY RD TRENTON 3 NJ  
JOHNS-MANVILLE CORP 22 E 40TH BOX 290 NEW YORK 16 NY  
KEASBEY & MATTISON CO BUTLER AV AMBLER PA  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
RUBEROID CO 500 FIFTH AV NEW YORK 36 NY

### ▶ WALLBOARD, FIBER CANE

CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL

### ▶ WALLBOARD, FIBER INSULATING

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Barclay Mfg Co 385 Gerard Av New York NY  
BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
Cole Mfg Co Box 2657 Memphis 2 Tenn  
East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY  
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
National Plywoods Inc 2710 Throop Chicago Ill  
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Simpson Logging Co White Bldg Seattle 2 NY  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
UPSON CO 43 UPSON PT LOCKPORT NY  
WOOD CONVERSION CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN

### ▶ WALLBOARD, FIBER, WATERPROOFED

UPSON CO 43 UPSON PT LOCKPORT NY

### ▶ WALLBOARD, FIBER, WOOD

A & F TILEBOARD CO LEE & ROY BOX 4085 ALEXANDRIA LA  
ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
BIRD & SON INC 47 WILSON EAST WALPOLE MASS  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
Cornell Paperboard Prods Co 230 N Michigan Chicago 1 Ill

### DANT & RUSSELL INC 711 EQUITABLE BLDG PORTLAND ORE

East Coast Tileboard Corp 41-59 Wyckoff Av Brooklyn 37 NY  
Fir-Tex Insulating Board Co US Natl Bank Bldg Portland Ore  
FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY  
Forest Fiber Prods Corp Box 68 Forest Grove Ore  
Hardboard Fabricators 59 Branch St Louis 7 Mo  
HOMASOTE CO FERNWOOD RD TRENTON 3 NJ  
INSULITE DIV MINNESOTA & ONTARIO PAPER CO 500 BAKER ARCADE BLDG MINNEAPOLIS 2 MINN  
JOHNS-MANVILLE CORP BOX 290 22 E 40TH NEW YORK 16 NY  
Lehwood Corp 1703 Ironwood Dr South Bend Ind  
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO  
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
National Plywoods Inc 2710 Throop Chicago Ill  
National Tileboard Corp 1314 Blondell Av New York 61 NY  
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Simpson Logging Co White Bldg Seattle 1 Wash  
SOUTHERN PLASWOOD CORP BOX 123 HOPE ARK  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
US Mengel Plywoods Inc Box 1612 Louisville 1 Ky  
UNITED STATES PLYWOOD CORP 55 WEST 44TH NEW YORK 36 NY  
UPSON CO 43 UPSON PT LOCKPORT NY  
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo  
WOOD CONVERSION CO 1ST NATIONAL BANK BLDG ST PAUL 1 MINN  
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

### ▶ WALLBOARD, GYPSUM

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Blue Diamond Corp 1650 S Alameda Los Angeles Cal  
CELOTEX CORP 120 S LASALLE CHICAGO 3 ILL  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
Grand Rapids Plaster Co Peoples National Bank Bldg Grand Rapids Mich  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
PABCO PRODS INC 475 BRANNAN SAN FRANCISCO 19 CAL  
Schreiber (Wm C) Lumber Co 2271 S Lumber Chicago 16 Ill  
Schumacher Wall Board Corp South Gate Cal  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL

### ▶ WALLBOARD, LEATHER FINISH

Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bestile Mfg Co State & Sultana Ontario Cal  
Hardboard Fabricators 59 Branch St Louis 7 Mo  
MASONITE CORP 111 W WASHINGTON CHICAGO 2 ILL  
Miratile Mfg Co 600 W 81st Chicago 20 Ill  
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY  
Wallace Mfg Co 10th & Fayette North Kansas City 16 Mo

### ▶ WALLBOARD, MARBLE FINISH

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
Barclay Mfg Co 385 Gerard Av New York NY  
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill  
JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY  
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO  
Miratile Mfg Co 600 W 81st Chicago 20 Ill  
Prestile Mfg Co 5850 W Ogden Av Chicago Ill  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

### ▶ WALLBOARD, PAPER

CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
Cornell Paperboard Prods Co 230 N Michigan Av Chicago 1 Ill

Fleming & Sons Inc 1120 E 12th Dallas Tex  
Plastergon Wall Board Co 196 Philadelphia Av Buffalo 7 NY  
UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY  
UPSON CO 43 UPSON PT LOCKPORT NY

### ▶ WALLBOARD, WOODGRAIN FINISH

ARMSTRONG CORK CO 1010 CONCORD LANCASTER PA  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
CERTAIN-TEED PRODS CORP 120 E LANCASTER AV ARDMORE PA  
FORMICA CO 4514 SPRING GROVE AV CINCINNATI 32 OHIO  
Gibbs Boardtile Corp 615 N Aberdeen Chicago 22 Ill  
HOMASOTE CO FERNWOOD RD TRENTON NJ  
MARSH WALL PRODS INC 5032 MAIN DOVER OHIO  
NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY  
Prestile Mfg Co 5850 W Ogden Av Chicago Ill  
UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
WOODALL INDUSTRIES INC 3500 OAKTON AV SKOKIE ILL

### ▶ WALLPAPER

Birge Co Inc 390 Niagara Buffalo 1 NY  
Buffalo Wallcraft Co Inc Buffalo 7 NY  
Buffalo Wall Paper Mfg Co Tonawanda NY  
Century Wallpaper Mills Decatur Ill  
Cook Paint & Varnish Co 1412 Knox North Kansas City Mo  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
Di-Noc Co 1700 London Rd Cleveland Ohio  
Globe Mills Inc 4860 N Halsted Chicago Ill  
Ideal Co Waco Tex  
Imperial Paper & Color Corp Glens Falls NY  
Joliet Wall Paper Mills Joliet Ill  
Kimberly-Clark Corp 128 N Commercial Neenah Wis  
Lennon Wallpaper Co 807 Fourth Av Joliet Ill  
Midwest Wall Paper Co Joliet Ill  
Peaslee-Gaulbert Paint & Varnish Co 223 N 15th Louisville Ky  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA  
Plattsburg Wallpaper Co Plattsburgh NY  
Prager Co Worcester Mass  
Preservative Paint Co 5410 Airport Way Seattle 8 Wash  
Sandura Co Inc Architects Bldg 17th & Sansom Philadelphia 3 Pa  
Sherwin-Williams Co 101 Prospect Av Cleveland 1 Ohio  
Stamford Wallpaper Co Inc Taylor & Manin Stamford Conn  
Standard Coated Prods Inc 67 W 44th New York 36 NY  
Star-Peerless Wallpaper Mills Joliet Ill  
Stotter Wallpaper Mills Crystal Lake Ill  
Trimz Co Inc Merchandise Mart Plaza Chicago Ill  
United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill  
Varlar Div United Wallpaper Inc 6154 Merchandise Mart Chicago 54 Ill  
Watson (Geo E) Co 417 S Wabash Av Chicago Ill  
York Wall Paper Co 750 Linden Av York Pa

### ▶ WALLPAPER, READY-PASTED

Imperial Paper & Color Corp Glens Falls NY  
Preservative Paint Co 5410 Airport Way Seattle 8 Wash  
Trimz Co Inc Merchandise Mart Plaza Chicago 54 Ill  
United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill

### ▶ WALLPAPER REMOVERS

BARR (W M) & CO BOX 3518 MEMPHIS 6 TENN  
Boyer Chemical Laboratory Co 2232 S Wabash Chicago 16 Ill  
Consumers Glue Co 1515 N Hadley St Louis 6 Mo  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
Fuller (H B) Co 181 W Kellogg Blvd St Paul 2 Minn  
Glidden Co Madison & Beren Rd Cleveland 2 Ohio  
Le Page's Inc 40 Swanson Gloucester 41 Mass  
Linck (O E) Co Inc Route 46 & Valley Rd Clifton NJ  
Patent Cereals Co Bradford St Geneva NY  
PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA

Pyramid Process Co Inc East Rochester NY  
**RED DEVIL TOOLS 136 COIT IRVINGTON NJ**  
 Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill  
 Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
 Tammis Industries Inc 228 N LaSalle Chicago Ill  
 United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
 Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn

### ▶ WARDROBES

Austral Sales Corp 101 Park Av New York 17 NY  
**BERGER MFG DIV REPUBLIC STEEL CORP 1038 BELDEN AV N CANTON 5 OHIO**  
 Carnahan Mfg Co Logansport Ind  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
 Decorative Cabinet Corp 261 5th Av New York 16 NY  
 Deluxe Metal Furniture Co 402 Struthers Warren Pa  
 Equipment Mfg Co Inc 1208-10 E Ninth Kansas City 6 Mo  
 Gardner Mfg Co 2740 Barstow Horicon Wis  
 Kenarobe Corp 8721 Darby Av Northridge Cal  
 Lee Metal Prods 918 E Fort Baltimore 30 Md  
 Lyon Metal Prods Inc 25 Montgomery Aurora Ill  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
**MENGEL CO 4TH & COLORADO LOUISVILLE 1 KY**  
 Midwest Mfg Co Galesburg Ill  
 Morgan Co 520 Oregon Oshkosh Wis  
 Revolver International Inc 420 Market San Francisco 11 Cal  
 Richards-Wilcox Mfg Co 220 Third Aurora Ill  
 Weisberg-Baer Co 405 26th Av Long Island City 2 NY  
 Woodcraft Mfg Co Farmington Minn

### ▶ WASHERS, CLOTHES

Altorf Bros Co East Peoria Ill  
 Apex Electrical Mfg Co 1020 E 152nd Cleveland 10 Ohio  
 Automatic Washer Co Newton Iowa  
 Bendix Home Appliances Inc Div Avco Mfg Co 3300 W Sample South Bend Ind  
 Blackstone Corp 1032-88 Allen St Ext Jamestown NY  
 Conlon Bros Mfg Co 4512 W Fillmore Chicago 50 Ill  
 Conlon-Moore Corp 1824 S Laramie Cicero Ill  
**CROSLLEY DIV AVCO MFG CORP 1329 ARLINGTON CINCINNATI OHIO**  
 Easy Washing Machine Corp Solar & Spencer Syracuse 1 NY  
 Frigidaire Div General Motors Corp 300 Taylor Dayton 1 Ohio  
**GENERAL ELECTRIC CO MAJOR APPLIANCE DIV 310 W LIBERTY LOUISVILLE 2 KY**  
 General Implement Corp Terminal Tower Cleveland 13 Ohio  
 Hamilton Mfg Co 1316 18th Two Rivers Wis  
**HOTPOINT CO 5600 W TAYLOR CHICAGO 44 ILL**  
**KELVINATOR DIV NASH-KELVINATOR CORP 14250 PLYMOUTH RD DETROIT 32 MICH**  
 Landers Frary & Clark Center St New Britain Conn  
 Maytag Co Newton Iowa  
 Monitor Equipment Corp 640 W 249th New York 71 NY  
 Naxon Utilities Corp 3600 W Touhy Av Chicago 45 Ill  
 Norge Div Borg-Warner Corp 670 E Woodbridge Av Detroit 26 Mich  
 Speed Queen Corp Ripon Wis  
**THOR CORP 2115 S 54TH AV CHICAGO 50 ILL**  
 Universal Major Elec Appliance Co Box 119 Lima Ohio  
**WESTINGHOUSE ELECTRIC CORP ELECTRIC APPLIANCE DIV 246 E 4TH MANSFIELD OHIO**  
**WESTINGHOUSE ELECTRIC CORP BOX 868 PITTSBURGH 30 PA**  
 Whirlpool Corp St Joseph Mich

### ▶ WATER CONDITIONERS

American Water Softener Co 4th & Lehigh Av Philadelphia 33 Pa  
 Calgon Inc 323 Fourth Av Pittsburgh Pa  
 Culligan Inc 1657 Shermer Av Northbrook Ill  
 Elgin Softener Corp 142 N Grove Av Elgin Ill  
 Johnson & Carlson 848 W Eastman Chicago 22 Ill  
 Permutit Co 330 W 42nd New York 36 NY  
 Uniflow Mfg Co 1525 E Lake Rd Erie Pa  
 Wayne Home Equipment Co Inc 801 Glasgow Fort Wayne 4 Ind

### ▶ WATER SUPPLY SYSTEMS

Aermotor Co 2500 Roosevelt Rd Chicago 8 Ill  
 Aurora Pump Co 789 Dearborn Aurora Ill  
 Baker Mfg Co 133 Enterprise Evansville Wis  
 Barnes Mfg Co 651 N Main Mansfield Ohio  
 Chicago Pump Co 2336 W Wolfram Chicago Ill  
**CRANE CO 836 S MICHIGAN AV CHICAGO 5 ILL**  
 Dayton Pump & Mfg Co 500 N Webster Dayton 1 Ohio  
 Decatur Pump Co 2750 Nelson Park Rd Decatur Ill  
**DELCO APPLIANCE DIV GENERAL MOTORS CORP LYELL & WHITNEY ROCHESTER NY**  
 Deming Co 42 Broadway Salem Ohio  
 Dempster Mill Mfg Co 711 S 6th Bentrice Neb  
 Edwards Co Sanford NC  
 Everite Pump & Mfg Co Inc 617-19 N Price Lancaster Pa  
 Fairbanks Morse & Co 600 S Michigan Av Chicago 5 Ill  
**FLINT & WALLING MFG CO INC 95 OAK KENDALLVILLE IND**  
 Gardner-Denver Co 100 Williams Quincy Ill  
 Goulds Pumps Inc 75 Fall Seneca Falls NY  
**GRAINGER (W W) INC 118 S OAKLEY BLVD CHICAGO ILL**  
 Heller-Allen Co Napoleon Ohio  
 Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
 Hummer Mfg Co Springfield Ill  
 Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn  
 Jacuzzi Bros Inc 5327 Jacuzzi Av Richmond Cal  
 Johnson & Carlson 848 W Eastman Chicago 22 Ill  
 Lancaster Pump & Mfg Co Inc Manheim Pike Lancaster Pa  
 McDonald (A Y) Mfg Co 1200 Pine Dubuque Iowa  
 Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
 Piqua Machine & Mfg Co 441 S College Piqua Ohio  
 Red Jacket Mfg Co 1051 S Rolff Davenport Iowa  
 Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio  
 Shetler (M) & Sons Co Clio Mich  
 Wayne Home Equipment Co 801 Glasgow Fort Wayne 4 Ind  
 Worthington Corp S Second St Plainfield NJ

### ▶ WATERPROOFING COMPOUNDS, BASEMENT, CISTERN

Abesto Mfg Corp 131 Wabash Michigan City Ind  
 Adensite Co 37-19 23rd St Long Island City NY  
 American Fluoresit Co 4011 Red Bank Rd Cincinnati 27 Ohio  
**AMERICAN STA-DRI CO 4019 38TH ST BRENTWOOD MD**  
 Anti Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
 Asbestos Co of Texas Div Carey (Philip) Mfg Co Box 1082 Houston 1 Tex  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 40 RECTOR NEW YORK 6 NY**  
 Belmont Smelting & Refining Wks 330 Belmont Av Brooklyn 7 NY  
 Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass  
 Camp Chemical Co Inc 170 Second Av Brooklyn NY  
**CAREY (PHILIP) MFG CO 316 S WAYNE CINCINNATI 15 OHIO**  
 Ceresit Waterproofing Corp 3226 Shields Av Chicago 7 Ill  
 Coddington (E D) Mfg Co 5024 N 37th Milwaukee 9 Wis  
**COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH**  
 Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY  
 Coopers Creech Chemical Corp West Conshohocken Pa  
 Coppox Sales Inc 1270 6th Av New York City NY  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Evercrete Corp 424 W 42nd New York 36 NY  
**FLINTKOTE CO 30 ROCKEFELLES PLAZA NEW YORK 20 NY**  
 Forman-Ford & Co 111 S Second Minneapolis 1 Minn  
 Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 Haynes Prods Co 4007 Farnam Omaha 3 Nebr  
 Hollingshead (R M) Corp 844 Cooper Camden NJ  
 Horn (A C) Co Tenth & 44th Av Long Island 1 NY

**KAY-TITE CO 46 LEXINGTON DR LIV-INGSTON NJ**  
 Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va  
 Materials & Treatment Co 2326 N Third Milwaukee 12 Wis  
 Nova Sales Inc Trenton 3 NJ  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**  
 Penn Crete Prods Co 20th & Lippincott Philadelphia 32 Pa  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Prima Prods Inc 10 E 40th New York 16 NY  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH**  
 Ranetite Mfg Co 1917 S Broadway St Louis Mo  
 Reilly Tar & Chemical Corp 1615 Merchants Bank Bldg Indianapolis 4 Ind  
 Rox Prods Co 9930 Freeland Detroit 27 Mich  
 Sika Chemical Corp 35 Gregory Av Passaic NJ  
 Smooth-On Mfg Co 568-74 Communipaw Av Jersey City 4 NJ  
 Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA**  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Tammis Industries Inc 228 N LaSalle Chicago Ill  
 Technical Supply Co 1911 University Av Palo Alto Cal  
 Truseon Laboratories Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tufferete Co 502 E Locust Des Moines 9 Iowa  
 Tuffall Inc 137 Bausman Pittsburgh 10 Pa  
 Vita-Vor Corp 10 Commerce Ct Newark NJ  
 Waterlox Div Empire Varnish Co 2636 E 76th Cleveland 4 Ohio  
 Weather Seal Co 10 E Pearl Cincinnati 2 Ohio  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ▶ WATERPROOFING, INTEGRAL

Adensite Co Inc 37-19 23rd St Long Island City NY  
 American Bitumuls & Asphalt Co 200 Bush San Francisco Cal  
 American Fluoresit Co Inc 4011 Red Bank Rd Cincinnati 29 Ohio  
**AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD**  
 Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
 Blue Ridge Talc Co Inc Henry Va  
 Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill  
**COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH**  
 Coppox Sales Inc 1270 Sixth Av New York City NY  
 Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
 Evercrete Corp 424 W 42nd New York 36 NY  
 Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ  
 Horn (A C) Co Inc 10th & 44th Av Long Island City 1 NY  
**JOHN-S-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KAY-TITE CO 46 LEXINGTON DR LIV-INGSTON NJ**  
 Lehon Co 4425 S Oakley Av Chicago 9 Ill  
 Linde Air Prods Co 30 E 42nd New York 17 NY  
 Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va  
**MEDUSA PORTLAND CEMENT CO 1090 MIDLAND BLDG CLEVELAND 15 OHIO**  
 Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn  
**OHIO HYDRATE & SUPPLY CO WOODVILLE OHIO**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
 Prima Prods Inc 10 E 40th New York NY  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH**  
 Ranetite Mfg Co 1917 S Broadway St Louis Mo  
 Sika Chemical Corp 35 Gregory Av Passaic NJ  
 Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 Spray-O-Bond Co 2225 N Humboldt Milwaukee 12 Wis  
**STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA**  
 Steelco Mfg Co 3418 Gratiot St Louis 3 Mo  
 Stonehard Co 1306 Spring Garden Philadelphia 8 Pa  
 Sullivan Co 212 E Trigg Memphis 2 Tenn  
 Tammis Industries Inc 228 N LaSalle Chicago 1 Ill  
 Toch Bros Inc 2600 Richmond Ter Staten Island NY  
 Truseon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
 Tuffall Inc 137 Bausman Pittsburgh 10 Pa

# YOU NAME IT... ROBERTS-GORDON



# HAS IT!

- Nationally-Known Products - AGA Approved
- Complete line of gas-fired Home Heating Equipment
- Quality Designed, Engineered, Produced
- Simple Installation plus Minimum Service

**PLUS** the famous patented Roberts-Gordon Spreader Flame Gas Burner . . .  
"The standard of the industry" . . .  
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## ROBERTS-GORDON

Manufacturers of Gas Heating Equipment

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Spreader Flame

BUFFALO 6, N. Y. DEPARTMENT AB

APRIL 1954

## Ez-Way stairways

### 3 ways to make more profits

The disappearing stairways famous for easy attic access—and easy sales!

With quality features proven to satisfy the most particular buyers—at a low, sales compelling price. Packaged COMPLETE and ready to install.

### EZ-WAY

#### Folding Attic Stairway

Ideal for remodeling or new construction. Touch controlled, balanced spring action—no troublesome counterweights. Non-slip treads and handrail. Sturdily built. Handsome, modern styling.

SPECIFICATIONS	Model 22 (heavy duty)	
	Model 18	
Rough opening	26" x 54"	30" x 62"
Stringers	4" x 5"	5" x 5"
Steps	4" x 18"	5" x 22"
Run	5"	6"
Rise	9"	9"
Ceiling Heights	7' to 9'	7' to 10'



### EZ-WAY

#### Sliding Stairway

Developed especially for truss roof construction and the mass housing market. When not in use as a stairway, it is easily demounted for use as a utility ladder. Simplest, safest stairway in its low price range!

SPECIFICATIONS—Model 20

Finished opening	24" x 36"
Stringers	1½" x 3½"
Rise	10"
Steps	4" x 15"
Maximum floor to floor height	9"
Maximum vertical clearance in attic	4' 6"
Clearance on attic floor	6' 1"



### EZ-WAY

#### Economy Ladder

Costs little more than a large step ladder, requires no alteration to the attic scuttle hole. Rigidity and sure-footing are built-in safety features. Easily operated by a woman or child.

SPECIFICATIONS—Model 15

Any opening	18" x 24" or larger
Maximum floor to floor height	9'2"
Minimum vertical clearance in attic	4'7"
Clearance on attic floor	4' 1½"



Sell the stairway with the industry-wide reputation for creating more sales with more customer satisfaction—EZ-Way stairway units.

Write for name of nearest distributor

## EZ-WAY SALES, Inc.

BOX 300 • ST. PAUL PARK, MINN.

Vita-Var Corp 10 Commerce Newark NJ  
Wayne Chemical Prods Co Copeland &  
MCRD Detroit 17 Mich  
Weatherguard Service Inc 564 Jackson Av  
New York 55 NY  
Weather Seal Co 10 E Pearl Cincinnati 2  
Ohio

### ▶ WATERPROOFING, MEMBRANE

**AMERICAN SISALKRAFT CORP ATTLEBORO MASS**  
Asbestos Asphalt Insulation Inc 2100 Fullerton Av Chicago 47 Ill  
**BARRETT DIV ALLIED CHEMICAL & DYE CO 49 RECTOR NEW YORK 6 NY**  
Cabot (Samuel) Inc 1371 Oliver Bldg Boston 9 Mass  
**CAREY (PHILIP) MFG CO LOCKLAND CINCINNATI 15 OHIO**  
Celadri Corp of New York Columbus Av North Bellmore NY  
Evercrete Corp 424 W 42nd New York 36 NY  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
**JOHNS-MANVILLE CORP 22 E 40TH BOX 250 NEW YORK 16 NY**  
**KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ**  
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
Koppers Co Inc Koppers Bldg Pittsburgh 19 Pa  
Lehon Co 4425 S Oakley Av Chicago 9 Ill  
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn  
Minwax Co Inc 11 W 42nd St New York NY  
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Presatite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
Ranette Mfg Co Inc 1917 S Broadway St Louis Mo  
Rubber & Plastic Coated Prods Co Inc 30 Rockefeller Plaza New York NY  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Texas Co 135 E 42nd New York 17 NY  
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY  
Tremco Mfg Co 8701 Kinaman Rd Cleveland 4 Ohio  
Vita-Var Corp 10 Commerce Ct Newark NJ  
Waseco Flashing Co 87 Fawcett Cambridge Mass  
Weatherguard Service Inc 564 Jackson Av New York 55 NY

### ▶ WATERPROOFING, METALLIC

**AMERICAN SISALKRAFT CORP ATTLEBORO MASS**  
Belmont Smelting & Refining Wks Inc 330 Belmont Av Brooklyn 7 NY  
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill  
Connelly Inc 3152 S California Chicago 8 Ill  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
Evercrete Corp 424 W 42nd New York 36 NY  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio  
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
Lehon Co 4425 S Oakley Av Chicago 9 Ill  
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn  
Ranette Mfg Co Inc 1917 S Broadway St Louis Mo  
Sika Chemical Corp 35 Gregory Av Passaic NJ  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY  
Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio

### ▶ WATERPROOFING, SURFACE-TYPE

Abeto Mfg Corp 131 Wabash Michigan City Ind  
Adensite Co Inc 37-19 23rd Long Island City NY  
American Fluoresit Co Inc 4011 Red Bank Rd Cincinnati 29 Ohio  
**AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD**

Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Armor Laboratories Inc Commercial & Doran Glendale 3 Cal  
**BARRETT DIV ALLIED CHEMICAL & DYE CORP 49 RECTOR NEW YORK 6 NY**  
**BIRD & SON INC 47 WILSON EAST WALPOLE MASS**  
Breinig Bros Inc 223 Adams Hoboken NJ  
Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
**CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA**  
Camp Chemical Co Inc 170 Second Av Brooklyn NY  
Camp Co Inc 6958 S State Chicago 21 Ill  
**CAREY (PHILIP) MFG CO 316 S WAYNE LOCKLAND CINCINNATI 15 OHIO**  
Cemix Co 433 Maple Av Downers Grove Ill  
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill  
**CERTAIN-TEED PRODS CORP 120 E LANCASTER ARDMORE PA**  
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn  
**COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH**  
Con-Cor Co 4550 Main Kansas City Mo  
Coopers Creek Chemical Corp West Conshohocken Pa  
Devoe & Reynolds Co Inc 787 First Av New York 17 NY  
Dunley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Evercrete Corp 424 W 42nd New York 36 NY  
**FLINTKOTE CO 30 ROCKEFELLER PLAZA NEW YORK 20 NY**  
Forman-Ford & Co 111 S 2nd Minneapolis 1 Minn  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio  
Glastic Corp North Kansas City 16 Mo  
Glidden Co Berea Rd at Madison Cleveland Ohio  
Harrop Chemical Co 135 Hoboken Av Jersey City 2 NJ  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Hydrozo Prods Inc Madison 5 Wis  
**JOHNS-MANVILLE CORP 22 E 40TH NEW YORK 16 NY**  
**KAY-TITE CO 46 LEXINGTON DR LIVINGSTON NJ**  
Lastik Prods Co Inc Keenan Bldg Pittsburgh 22 Pa  
Lasting Prods Co Franklinton Rd Baltimore 23 Md  
Lehon Co 4425 S Oakley Chicago 9 Ill  
Linde Air Prods Co 30 E 42nd New York 17 NY  
Lockrey Co Southampton NY  
Lowebe Inc 1525 E 53rd Chicago Ill  
Mar-Kay Mfg Co 2715 S Second St Louis Mo  
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va  
**MEDUSA PORTLAND CEMENT CO 1008 MIDLAND BLDG CLEVELAND 15 OHIO**  
Minneapolis Builders Supply Co 927 Second Av Minneapolis 2 Minn  
Minwax Co Inc 11 W 42nd New York 18 NY  
**MIRACLE ADHESIVE CORP 214 E 53RD NEW YORK 23 NY**  
Mixtite Corp North Haven Conn  
Old American Roofing Mills Div Ruberoid Co 500 Fifth Av New York 36 NY  
Pavinochem Inc 1239 St Nicholas Av New York 32 NY  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**  
Pioneer Mfg Co 3052 E 87th Cleveland 4 Ohio  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Presatite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
Prima Prods Inc 10 E 40th New York 17 NY  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH**  
Protective Papers Inc Union Ill  
Ranette Mfg Co 1917 S Broadway St Louis Mo  
Reardon Co 7501 Page Av St Louis 14 Mo  
Roebond Prods Co Van Wert Ohio  
Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
**RUBEROID CO 500 FIFTH AV NEW YORK 36 NY**  
Rust-Oleum Corp 2425 Oaktown Evanston Ill  
Sika Chemical Corp 35 Gregory Av Passaic NJ  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Spray-O-Bond Co 2255 N Humboldt Milwaukee 12 Wis  
**STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA**  
Steelcote Mfg Co 3418 Gratiot Av St Louis 3 Mo  
Stonhard Co 1306 Spring Garden Philadelphia 3 Pa  
Stopall Waterproofing Mfrs Inc 212 Commerce Bldg Kalamazoo Mich  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Super Concrete Emulsions 1372 E 15th Los Angeles 21 Cal

Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
Texas Co 135 E 42nd New York 17 NY  
Truscon Laboratories Div Devoe & Reynolds Co Inc Caniff at Grand Trunk Ry Detroit 11 Mich  
Tufcrete Co Inc 502 E Locust Des Moines Iowa  
Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
United Gilsontite Laboratories 1396 Jefferson Av Scranton 1 Pa  
Vita-Var Corp 10 Commerce Ct Raymond Commerce Bldg Newark NJ  
Waseco Waterpaints Inc Varnish Co 2636 E 76th Cleveland 4 Ohio  
Wayne Chemical Prods Co Copeland & MCRD Detroit 17 Mich  
Weather Seal Co 10 E Pearl Cincinnati 2 Ohio  
Webster (W F) Cement Co 224 Thorndike Cambridge 41 Mass  
Wesco Waterpaints Inc Matteson Ill  
Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis  
X-Pando Corp 43-15 36th Long Island City 1 NY

### ▶ WATERPROOFING, TRANSPARENT

Adensite Co Inc 37-19 23rd Long Island City NY  
**AMERICAN CEMENT PRODS 7306 PURITAN AV DETROIT MICH**  
American Fluoresit Co Inc 4011 Red Bank Rd Cincinnati 27 Ohio  
**AMERICAN STA-DRI CO 4019 38TH BRENTWOOD MD**  
Anti-Hydro Waterproofing Co 265 Badger Av Newark 8 NJ  
Cabot (Samuel) Inc 1271 Oliver Bldg Boston 9 Mass  
**CALBAR PAINT & VARNISH CO 2612 N MARTHA PHILADELPHIA 25 PA**  
Celadri Corp of New York Columbus Av North Bellmore NY  
Ceresit Waterproofing Corp 3227 S Shields Av Chicago 7 Ill  
**COLORCRETE INDUSTRIES INC 563 OTTAWA AV HOLLAND 1 MICH**  
Con-Cor Paint Co 45th & Main Kansas City Mo  
Consumers Co 79 W Monroe Chicago 3 Ill  
Continental Asbestos & Refining Corp 1 Madison Av New York 10 NY  
Coopers Creek Chemical Corp River Rd West Conshohocken Pa  
Evercrete Corp 424 W 42nd St New York 36 NY  
Forman-Ford & Co 111 S Second Minneapolis 1 Minn  
Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
General Paint Corp 2627 Army San Francisco 19 Cal  
Gibson-Homans Co 2366 Woodhill Rd Cleveland 6 Ohio  
Glidden Co Berea Rd at Madison Cleveland Ohio  
Harrop Chemical Co 135 Hoboken Av Jersey City NJ  
Haynes Prods Co 4007 Farnam Omaha 3 Neb  
Horn (A C) Co Tenth & 44th Av Long Island City 1 NY  
Kedmont Mfg Co Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
Keystone Asphalt Prods Co 101 E Ontario Chicago 11 Ill  
Linde Air Prods Co 30 E 42nd New York 17 NY  
Lumino Co 515 Madison Av New York 22 NY  
Made-Rite Prods Co 2410 S 7th St Louis Mo  
Mar-Kay Mfg Co 2715 S Second St Louis Mo  
Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
Masonry Waterproofing Co Inc Box 1061 North Sta Arlington 7 Va  
Minneapolis Builders Supply Co 927 Second Av S Minneapolis 2 Minn  
Minwax Co Inc 11 West 42nd New York NY  
Mobile Paint Co Box 1686 Mobile Ala  
**PECORA PAINT CO INC 4TH & RDG RR PHILADELPHIA 40 PA**  
Prima Prods Inc 10 E 40th New York 16 NY  
**PROTECTION PRODS MFG CO 2305 SUPERIOR KALAMAZOO 99 MICH**  
Ranette Mfg Co 1917 Broadway St Louis Mo  
Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
Sika Chemical Corp 35 Gregory Av Passaic NJ  
Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
Surface Protection Co 16799 Euclid Cleveland 12 Ohio  
**STANDARD DRY WALL PRODS INC 77 HUDMONT NEW EAGLE PA**  
Sullivan Co 212 E Trigg Memphis 2 Tenn  
Tamm Industries Inc 228 N LaSalle Chicago 1 Ill  
Toch Bros Inc 2600 Richmond Ter Staten Island 3 NY

Truscon Laboratories Div Devco & Raynolds Co Inc Caniff at Grand Trunk Ry Detroit Mich  
 Tufcrete Co Inc 502 E Locust Des Moines 9 Iowa  
 United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio  
 Vita-Var Corp 10 Commerce Ct Newark NJ  
 Waterlox Div Empire Varnish Co 2636 E 76th Cleveland Ohio  
 Weatherguard Service Inc 564 Jackson Av New York 55 NY  
 Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis  
 Wurdack Chemical Co 4977 Fyler Av St Louis 9 Mo  
 X-Pando Corp 43-15 36th Long Island City 1 NY

### ▶ WEATHERSTRIPPING

Accurate Metal Weatherstrip Co 218 E 26th New York 10 NY  
 Alden Mfg Co 201 W Walnut Painesville Ohio  
 ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
 Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
 Aluminum Home Prods Co Carr at Southern Ry Box 10021 Knoxville Tenn  
 American Metal Weather Strip Co Grand Rapids Mich  
 BALTZ (R N) & CO 1009 HARVARD TER EVANSTON ILL  
 Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio  
 Bridgeport Fabrics Inc 195 Holland Av Bridgeport 1 Conn  
 Central Metal Strip Co 4343 N Western Av Chicago Ill  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
 CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL  
 Dennis (W J) & Co 4444 Irving Park Rd Chicago 41 Ill  
 Durbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill  
 Durkee-Atwood Co 215 7th NE Minneapolis 13 Minn  
 Dyke Bros 309 Center Little Rock Ark  
 E-Z Tight 611 S Broadway Albuquerque NM  
 Formetal Inc 109 W Water Oak Harbor Ohio  
 Gardner Wire Co 1325 S Cicero Chicago 50 Ill  
 Goshen Sash & Door Co E Purl Goshen Ind

Lock Joint Window Co 817 NW 61st Oklahoma City Okla  
 MACKLANBURG-DUNCAN CO 4041 N

## America's Most Complete Weather Strip Line

Numetal Door & Window Sets

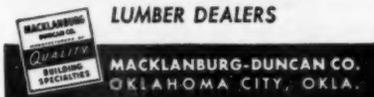
Twin-Cushion Full Jamb Sets or Bulk

On-GARD COIL for doors and Windows

Dixie Rib Interlocking

See Pgs. 14-17

SOLD BY HARDWARE & LUMBER DEALERS



MACKLANBURG-DUNCAN CO.  
 OKLAHOMA CITY, OKLA.

SANTA FE OKLAHOMA CITY 1 OKLA  
 MASTER METAL STRIP SERVICE INC  
 1720 N KILBOURN AV CHICAGO 39 ILL  
 Milwaukee Strip Service Inc 4621-23 W Lisbon Av Milwaukee 8 Wis  
 Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo  
 MORTELL (J W) Co 550 N HOBIE KAN-KAKEE ILL  
 N S W Co 12930 Auburn Detroit 23 Mich  
 National Guard Prods 767 Madison Memphis 7 Tenn  
 National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa  
 Nichols Metal Strip Service 2108 Gilbert Cincinnati 6 Ohio

Presatite Engineering Co 3900 Chouteau Av St Louis 10 Mo  
 Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill  
 Reese Metal Weatherstrip Co 712 Park Av Minneapolis Minn  
 Rhodes (James H) & Co 157 W Hubbard Chicago 10 Ill  
 Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
 R O W SALES CO 1365 ACADEMY ROYAL OAK 5 MICH  
 Samson Prods Co 3219 Armitage Av Chicago 47 Ill  
 SCHLEGEL MFG CO 227 N GOODMAN ROCHESTER NY  
 Security Co 1757 Puritan Av Detroit 3 Mich  
 Sentry Stop-A-Draft 20 N Wacker Dr Chicago 6 Ill  
 Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn  
 Spanjers (A J) Co 1915 Lilac Dr Minneapolis 12 Minn  
 Van Cleef Bros Inc 7800 S Woodlawn Chicago 19 Ill  
 Warnica Prods 6416 S Ashland Chicago 36 Ill  
 WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO  
 Window Conditioning Co 32 Brown Barberton Ohio  
 Winsulite Mfg Co 725 N Central Av Baltimore 2 Md  
 ZEGERS INC 5090 SOUTH CHICAGO AV CHICAGO 17 ILL

### ▶ WEATHERSTRIPPING, COMBINATION SASH BALANCE

ALLMETAL WEATHERSTRIP CO 2241 N KNOX AV CHICAGO 39 ILL  
 Central Metal Strip Co 4343 N Western Av Chicago, Ill  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
 CHICAGO METAL STRIP CO 4521 N CLARK CHICAGO 40 ILL  
 MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA  
 MASTER METAL STRIP SERVICE INC 1720 N KILBOURN AV CHICAGO 39 ILL  
 Milwaukee Strip Service Inc 4621-23 W Lisbon Av Milwaukee 8 Wis  
 Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn

**Chromould**

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Complete pre-packaged units available with weatherproof J-hooks, all screws and nails. Easy-to-sell, ready to install.

You make a generous margin when you feature the National line. Guaranteed quality in Chromalite or industrial finish. Write today!

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- Aluminum trim
- Stainless steel channels
- Stainless steel trim and mouldings.

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 from the growing market in "DO-IT-YOURSELF"  
 Chromould can double your income! FREE CATALOGUE

**national aluminum co.**  
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## ORNAMENTAL RAILINGS and PORCH COLUMNS

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 "Railing Specialists"

- Attractive Designs
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and Built to fit—No cutting or assembly before installation

WRITE FOR FREE CATALOG

## METAL CRAFTERS

"Railing Specialists"

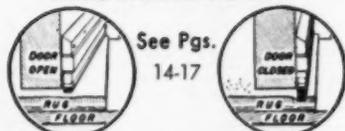
P. O. Box 830 . . . Cedar Rapids, Iowa  
 In Canada: Ramson Metal Crafters, Ltd.  
 1558 Howard Avenue, Windsor, Ontario, Canada

**WEATHERPROOF PRODS CORP WALDO**  
STA BOX 8498 KANSAS CITY 5 MO  
ZEGERS INC 8090 SOUTH CHICAGO AV  
CHICAGO 17 ILL

**▶ WEATHERSTRIPPING, DOOR & DOOR BOTTOM**

Accurate Metal Weatherstrip Co 218 E 26th New York 10 NY  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Ames Metal Moulding Co 225 E 144th New York 51 NY  
**BALTZ (R N) & CO 1009 HARVARD TER EVANSTON ILL**  
Brainard Industries Inc 152 S 15th Lindenhurst LI NY  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
Central Metal Strip Co 4343 N Western Av Chicago 18 Ill  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Dennis (W J) & Co 4444 W Irving Park Chicago 39 Ill  
Dorbin Metal Strip Mfg Co 2408 S Cicero Av Chicago 50 Ill  
Gardner Wire Co 1325 S Cicero Chicago 50 Ill  
**MACKLANBURG-DUNCAN CO 4041 N SANTA FE OKLAHOMA CITY 1 OKLA**

**NU-GARD**  
**AUTOMATIC DOOR BOTTOM**  
**ENDS DRAFTY DOORS!**



**SOLD BY HARDWARE & LUMBER DEALERS**



**MACKLANBURG-DUNCAN CO.**  
OKLAHOMA CITY, OKLA.

**MASTER METAL STRIP SERVICE INC** 1729 N KILBOURN AV CHICAGO 39 ILL  
National Metal Prods Co 1001 Ridge Av Pittsburgh 33 Pa  
Parker (S) Hdwe Mfg Corp 27 Ludlow New York 2 NY  
Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn  
**SCHLEGE MFG CO 227 N GOODMAN ROCHESTER NY**  
Sentry Stop-A-Draft Co 20 N Wacker Dr Chicago 6 Ill  
Thermal Co 45 W Durham Philadelphia Pa  
**WAGNER MFG CO FIRST & WASHINGTON CEDAR FALLS IOWA**  
Waterloo Sales Co Cleveland 19 Ohio  
**WEATHERPROOF PRODS CORP WALDO STA BOX 8498 KANSAS CITY 5 MO**  
**ZEGERS INC 8090 SOUTH CHICAGO AV CHICAGO 17 ILL**

**▶ WHEELBARROWS**

American Steel Scraper & Wheelbarrow Co Wilkinson Av Sidney Ohio  
Buch Mfg Co 800 S Market Elizabethtown Pa  
Chattanooga Wheelbarrow Co 1311 E Main Chattanooga 2 Tenn  
Concord Woodworking Co Inc 10 Behariel West Concord Mass  
**GOODYEAR TIRE & RUBBER CO 1485 E ARCHWOOD AV AKRON OHIO**  
Jackson Mfg Co Lochiel Rd Harrisburg Pa  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
Kwik-Mix Co Port Washington Wis  
Lansing Co 503 N Cedar Lansing 3 Mich  
Newark Ladder & Bracket Co Inc 17 Walnut Av Clark (Rahway) NJ  
Novo Engine Co Ballantine St Lansing 5 Mich  
Prime Mover Co Sampson St Muscatine Iowa  
Sterling Wheelbarrow Co 7036 W Walker Milwaukee Wis  
Western Wheel Barrow Mfg Co South Fort Smith Ark  
Wood Shovel & Tool Co Piqua Ohio

**▶ WHEELS, GRINDING**

Abrasive Prods Inc 100 Pearl South Braintree Mass  
Albertson & Co Inc Sioux City 3 Iowa  
American Emery Wheel Wks 1 Richmond Sq Providence 1 RI  
Bay State Abrasive Prods Co Union St Westboro Mass

**BEHR-MANNING CORP DIV NORTON CO** 1554 SEIFERT TROY NY  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
**BRADFORD MACHINE TOOL CO 456-671 EVANS CINCINNATI 4 OHIO**  
Bridgeport Safety Emery Wheel Co Bridgeport Conn  
Carborundum Co Buffalo Av Niagara Falls NY  
Chicago Wheel & Mfg Co 1101 W Monroe Chicago 7 Ill  
Cortland Grinding Wheels Corp 1 Huntington Chester Mass  
**DREMEL MFG CO 2420 18TH RACINE WIS**  
General Hardware Co 3618 W Pierce Milwaukee 15 Wis  
Goodrich Grinding Wheel Co 1500 W Madison Chicago Ill  
Hanchett Mfg Co 906 N State Big Rapids Mich  
Macklin Co 2914 Wildwood Rd Jackson Mich  
Mid-West Abrasive Co 500 S Washington Owosso Mich  
Norton Co 1 New Bond Worcester 6 Mass  
Simonds Abrasive Co Tacony & Fraley Philadelphia 37 Pa  
**SKIL CORP 5033 ELSTON CHICAGO 30 ILL**  
Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio  
Thor Power Tool Co 175 N State Aurora Ill  
Vitrified Wheel Co Westfield Mass  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY  
Wisota Mfg Co 1301 S 3rd Minneapolis Minn

**▶ WINCHES, HAND**

**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 11 MO**  
C&H Electric Co 436 W Juneau Av Milwaukee 3 Wis  
Clyde Iron Wks Inc 29th Av & W Michigan Duluth 1 Minn  
Dobbie Foundry & Machine Co 150 Portage Rd Niagara Falls NY  
Downs Crane & Hoists Co 540 W Vernon Av Los Angeles 37 Cal  
Erie Hoist Co Erie Pa  
Little Giant Prods Inc 1530 N Adams Peoria 3 Ill  
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn  
Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
Stephens-Adamson Mfg Co 274 Ridgeway Av Aurora Ill

**▶ WINCHES, TRACTOR & TRUCK**

American Hoist & Derrick Co 63 S Robert St Paul 1 Minn  
Four Wheel Drive Auto Co E 12th Clintonville Wis  
Fruehauf Trailer Co 10941 Harper Av Detroit 32 Mich  
Hyster Co 2902 NE Clackamas Portland 8 Ore  
**OLIVER CORP 400 W MADISON CHICAGO ILL**  
Original Enderes Co Guttenburg Iowa  
Robbin & Myers Inc 1345 Lagonda Av Springfield Ohio  
Round Bridgeport Chain & Mfg Co 964 Crescent Av Bridgeport Conn  
Sasgen Derrick Co 3101 W Grand Av Chicago 22 Ill  
Shepard Niles Crane & Hoist Corp 410 Schuyler Av Montour Falls NY  
Silent Hoist & Crane Co 860 63rd Brooklyn 20 NY  
Stimmel Winch Co 37-24 33rd Long Island City 1 NY  
Wood (Gar) Industries Michigan Blvd Wayne Mich

**▶ WINDOW OPERATORS**

Adams Co Box 268 Dubuque Iowa  
Bayley (William) Co 1200 Warder Springfield 99 Ohio  
Barrows Lock Wks 24th & Commonwealth Av North Chicago Ill  
Bommer Spring Hinge Co Inc 263 Classon Av Brooklyn 5 NY  
Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**  
Croft Steel Prods Inc 10 Market Jamestown NY  
**GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA**  
**GRAND RAPIDS HDWE CO 560 ELEVENTH NW GRAND RAPIDS 2 MICH**  
Horton Div Aveo Mfg Corp Circleville Ohio  
**IVES (H B) CO 5 ARTIZAN NEW HAVEN 8 CONN**  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
Kinneer Mfg Co Fields Av Columbus 16 Ohio  
New England Mfg & Supply Corp 42 Church New Haven Conn  
Norwalk Lock Co Div Segal Lock & Hardware Co 397 Broadway New York 13 NY  
Pacific Brass & Hdwe Mfg Co 2442 N Chico Av El Monte Cal

**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
Sager-Barrow Div Yale & Towne Mfg Co Berrien Springs Mich  
**SARGENT & CO 45 WATER NEW HAVEN 9 CONN**  
Segal Lock & Hdwe Co Inc 395 Broadway New York 13 NY  
Shelby Spring Hinge Co Shelby Ohio  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**  
**STERLING HDWE MFG CO 2345 NELSON CHICAGO 18 ILL**  
Whitney (Vincent) Co Box 335 Sausalito Cal  
**YALE & TOWNE MFG CO HENRY ST STAMFORD CONN**

**▶ WINDOW SASH PULLEYS**

Champion Hdwe Co 3300 Miller Geneva Ohio  
Chantrell Hdwe & Tool Co Fitchburg Mass  
Cleveland Lock Wks 1292 E 53rd Cleveland 14 Ohio  
**CORBIN (P&F) DIV AMERICAN HDWE CORP 67 PARK NEW BRITAIN CONN**  
**GETTY (H S) & CO INC 3360 N 10TH PHILADELPHIA 40 PA**  
**GRAND RAPIDS HDWE CO 560 11TH NW GRAND RAPIDS MICH**  
**HAGER (C) & SONS HINGE MFG CO 139 VICTOR ST LOUIS 4 MO**  
Industrial Iron Wks 6011 SW Macadam Box 4625 Portland 1 Ore  
Penn Hardware Co Spruce St Reading Pa  
Phoenix Lock Co 327 3rd Av Newark 7 NJ  
Protex Weatherstrip Mfg Co 4508 S Western Av Chicago Ill  
**RUSSELL & ERWIN DIV AMERICAN HDWE CORP 102 WASHINGTON NEW BRITAIN CONN**  
**STANLEY WKS 111 ELM AV NEW BRITAIN CONN**

**▶ WINDOW SCREENS, ALUMINUM FRAME**

A B C Steel Equipment Co 211 E 22nd New York NY  
A B C Steel Equipment Co Inc 17th & First Av Tampa 5 Fla  
Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
All Weather Jalousies Inc State Hwy 46 Teterboro NJ  
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
**ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS**  
Alwintite Div General Bronze Corp 50 Stewart Garden City NY  
**AMERICAN SCREEN PRODS CO 807 NW 20TH MIAMI 37 FLA**  
**B&W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX**  
Barnhart (A W) Co 140 Highland Port Chester NY  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
General Woodcraft Co Inc 34th & Paterson Plank Rd North Bergen NJ  
Kane Mfg Corp Box 641 Kane Pa  
Kaufmann Corp 17210 Gable Detroit 12 Mich  
**KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY**  
Lato Prods Co 909 New Boston Rd Texarkana Tex  
**LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA**  
Metalcraft Screen Co 1171 Tremont Boston 20 Mass  
Orange Div Eagle Picher Co American Bldg Cincinnati Ohio  
Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind  
**REYNOLDS METALS CO BUILDING PRODS DIV 2001 S 9TH LOUISVILLE 1 KY**  
Rudiger-Lang Co 2701 8th Berkeley 10 Cal  
Screens & Fabricated Metals Corp 3323 Paterson Plank Rd North Bergen NJ  
Security Sash & Screen Co 385 Midland Detroit 3 Mich  
Southern Metal Prods Corp 921 Rayner Memphis 6 Tenn  
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
Universal Fabricators 1785-1829 Boone Av New York 60 NY  
V-Seal Corp 1300 Batavia Rd Royal Oak Mich  
Vulcan Metal Prods 2801 6th Av S Birmingham Ala  
Wilson (L S) Mfg Co 7421 S Loomis Blvd Chicago 36 Ill

**▶ WINDOW SCREENS, ROLLING**

Barnhart (A W) Co 140 Highland Port Chester NY  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Kane Mfg Corp Box 641 Kane Pa  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**

Lockhart Mfg Corp 6350 E Davison Detroit Mich  
 Metalcraft Screen Co 1171 Tremont Boston 20 Mass  
**ROLSCREEN CO PELLA IOWA**  
 Rudiger-Lang Co 2701 8th Berkeley 10 Cal  
 Rylock Co Ltd San Leandro Cal  
 Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
 Universal Roller Screen Co 2055 N Racine Av Chicago Ill

► **WINDOW SCREENS, STEEL FRAME**

A B C Steel Equipment Co 211 E 22nd New York NY  
 Adams Co Box 268 Dubuque Iowa  
 Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN SCREEN PRODS CO 807 NW 29TH MIAMI 37 FLA**  
 Atkinson Mfg Co 502 S James Ludington Mich  
 Barnhart (A W) Co 140 Highland Port Chester NY  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
 Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich  
 Cincinnati Fly Screen Div Russell (F C) Co Union Commerce Bldg Annex Cleveland 2 Ohio  
 Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
 Continental Screen Co 1249 Washington Blvd Detroit 26 Mich  
 Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
 Croft Steel Prods Inc 10 Market Jamestown NY  
 Dennis (W J) & Co 4444 W Irving Pk Chicago Ill  
 Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
 Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
 Gabriel Steel Co 13700 Sherwood Av Detroit 12 Mich  
 Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich  
 Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
 Kane Mfg Corp Box 641 Kane Pa  
**KEWANEE MFG CO 150 BURLINGTON KEWANEE ILL**  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**  
 Lato Prods Co 909 New Boston Rd Texarkana Tex  
 Malibu Mfg Corp 8438 Melrose Av Los Angeles 48 Cal  
 Mesker Bros 6th Poplar & 7th St Louis 15 Mo  
**METAL ARTS MFG CO INC HARWELL & OAKCLIFF RDS SW BOX 4144 ATLANTA GA**  
**NEW MONARCH MACHINE & STAMPING CO 466 SW 9TH DES MOINES 9 IOWA**  
 Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind  
 Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill  
 Rudiger-Lang Co 2701 8th Berkeley 10 Cal  
**RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO**  
**STEELCRAFT MFG CO 9850 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO**  
 Stewart Screen Co 32 S Raymond Av Pasadena 1 Cal  
**THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO**  
 Universal Fabricators 1801 Boone Av Bronx 60 NY

► **WINDOW SCREENS, SUN-REFLECTING**

**B&W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX**  
 Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
 Flex-O-Glass Inc 1100 N Cicero Av Chicago 51 Ill  
**INGERSOLL PRODS DIV BORC-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
 Kaiser Aluminum & Chemical Corp 1924 Broadway Oakland 12 Cal  
 US Mangel Plywoods Inc Box 1612 Louisville 1 Ky

► **WINDOW SCREENS, WOOD FRAME**

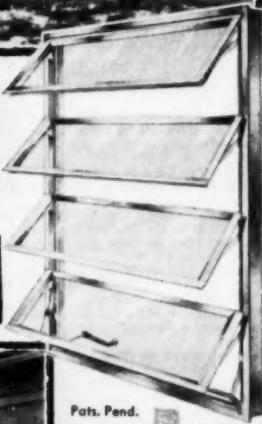
Angel Novelty Co Fitchburg Mass  
 Barnhart (A W) Co Fort Chester NY  
 Burke Millwork Co Fremont Bridge Seattle 3 Wash

APRIL 1954



**Sells on SITE!**

**AIR-VUE** aluminum AWNING WINDOWS



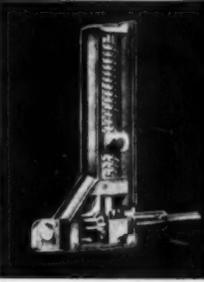
Pats. Pend.  
 AIR-VUE's Standard Window Comes Equipped With 1 More Ventilator Than Those of Most Other Manufacturers.



The fast-selling house is the extra-value house... and AIR-VUE Aluminum Awning Windows represent added value that buyers recognize. Good looks, easy operation, low maintenance, helps you close deals.

**POWER-TURN OPERATOR**

Only 3 moving parts—automobile-jack principle delivers full power for opening and closing cycle. FULLY GUARANTEED.



- Heavy-Gauge All-Aluminum Construction
- Fast Installation—Easy Glazing
- Shipped Complete with Operator Built In
- Designed for Interchangeable Screen and Storm Sash

COMPLETELY WEATHERSTRIPPED

**EXCLUSIVE TERRITORIES OPEN**  
 Write, wire Dept. AB-4, R. B. Leonard, Inc., for full details

**R. B. Leonard, inc.**  
 5775 N. W. 35th COURT • MIAMI, FLORIDA

R. B. Leonard, Inc., Dept. AB-4  
 5775 N. W. 35th Court, Miami, Florida  
 Gentlemen: Please give me full facts about the AIR-VUE Aluminum Awning Window.

Check one: Builder  Dealer

Name: .....  
 Address: .....  
 City: ..... Zone: .....  
 State: ..... Phone: .....

**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Chamberlin Co of America 1254 LaBrosse  
Detroit 26 Mich  
**COFFMAN (R G) CO INC BOX 1113 ORLANDO FLA**  
Cole Mfg Co Box 2657 Memphis 2 Tenn  
Continental Screen Co 1323 Book Bldg Detroit 26 Mich  
**CROSSETT LUMBER CO CROSSETT ARK**  
Crown Shade & Screen Co 44 Lochdale Rd Boston Mass  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
Dennis (W J) & Co 4444 Irving Park Blvd Chicago 41 Ill  
Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY  
Farley & Loetscher Mfg Co Dubuque Iowa  
Fordyce-Crosssett Lumber Co Fordyce Ark  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Holster Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Huttig Sash & Door Co 1206 Vandeventer Av St Louis 10 Mo  
Ideal Co 24th & Mary Waco Tex  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**  
Kinzua Pine Mills Co Kinzua Ore  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Morjan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
National Screen Co Inc Suffolk Va  
National Screen Door Co Montgomery 3 Ala  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Phenix Mfg Co Inc 4129 N Port Washington Rd Milwaukee Wis  
Prentice (F W) & Co Adrian Mich  
Roach & Musser Co Muscatine Iowa  
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
Robinson Mfg Co Everett Wash  
Rock Island Millwork Co Rock Island Ill  
**R. O. W. SALES CO 1365 ACADEMY FERNDALE MICH**  
**RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO**  
Schumacher (F E) Co 200 Mill Hartville Ohio  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio  
Silcrest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
Universal Fabricators 1801 Boone Av Bronx 60 NY  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**  
Weather Proof Co 1409 E 49th Cleveland 3 Ohio  
Wheeler Osgood Co Box 1629 Tacoma 1 Wash  
White Pine Sash Co Spokane 7 Wash

### ▶ WINDOW SILLS & STOOLS, METAL

Accurate Metal Weather Strip Co 216 E 26th New York 10 NY  
**AETNA STEEL PRODS CORP 730 FIFTH AV NEW YORK 19 NY**  
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa  
**BUILDERS MFG CO 1514 BROWN-MARX BLDG BIRMINGHAM ALA**  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
Knapp Bros Mfg Co 16 E 72nd Cincinnati 16 Ohio  
**THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**

### ▶ WINDOW STOOLS, LAMINATE COVERING

Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash

### ▶ WINDOW SURROUNDS, STEEL

Bayley (William) Co 1200 Warder Springfield 99 Ohio  
**BUILDERS MFG CO 1514 BROWN-MARX BLDV DETROIT 11 MICH**  
**DETROIT STEEL PRODS 2250 E GRAND BLVD DETROIT 11 MIC H**

Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
**RUSSELL (F C) CO 1100 CHESTER AV CLEVELAND 1 OHIO**  
**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE OHIO**  
**THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**

### ▶ WINDOWS, ALUMINUM, GLASS LOUVRES

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Clearview Louver Window Corp 2625 Elm Dallas 1 Tex  
**KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY**  
Marmet Corp Box 208 Wausau Wis  
Universal Corp 6710 Denton Dr Dallas Tex

### ▶ WINDOWS, AWNING, METAL

**ADAMS ENGINEERING CO BOX 936 LITTLE RIVER BRANCH MIAMI 38 FLA**  
Air Control Prods Inc Glade at Larch Coopersville Mich  
All-Lite Metal Window Co Box 11 Bristol Pa  
Altex Mfg Co Summerville SC  
Alwintite Div General Bronze Corp 50 Stewart Garden City NY  
Brown & Grist 112 Todds Lane Warwick Va  
Clearview Louver Window Co 2625 Elm Dallas 1 Tex  
Croft Steel Prods Inc 10 Market Jamestown NY  
Decatur Iron & Steel Co 2nd St W Decatur Ala  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
Fenestra Building Prods Co 2250 E Grand Blvd Detroit 11 Mich  
Fentron Steel Wks Inc 2801 Market Seattle Wash  
**FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA**  
Harris Inc 200 E Long Columbus 15 Ohio  
**KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY**  
**LEONARD (R B) INC 5775 NW 35TH CT MIAMI FLA**  
**LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA**  
Metal Trims Inc Box 1072 Youngstown 1 Ohio  
**MIAMI WINDOW CORP 5200 NW 37TH AV MIAMI FLA**  
Ron-del Inc 1026 Reserve Loan Life Bldg Dallas Tex  
Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati 1 Ohio  
Superior Window Co 5300 NW 37th Av Miami Fla  
Super-Vent Co 905 W North Av Chicago Ill  
Tru-Seal Window Div Industrial Machine Tool Co Inc 301 S Oak Fenton Mich  
Trim-Set Corp 2801 Market Seattle 7 Wash  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
Union Aluminum Co Sheffield Ala  
Universal Window Co 950 Parker Berkeley 10 Cal  
Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

### ▶ WINDOWS, AWNING, WOOD

Air-Vue Prods Corp 3649 NW 50th Miami Fla  
**ANDERSEN CORP BAYPORT MINN**  
Builders Prods Inc 7555 Bessemer Cleveland Ohio  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Fox Bros Mfg Co 2717 Sliney St Louis 4 Mo  
**GATE CITY SASH & DOOR CO 15 SW THIRD AV FORT LAUDERDALE FLA**  
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen Nj  
Hurd Millwork Corp Medford Wis  
Ideal Co 24th & Mary Waco Tex  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
**LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA**  
**R O W SALES CO 1365 ACADEMY FERNDALE 20 MICH**  
**ROLSCREEN CO PELLA IOWA**  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis

**SUPER-VENT CO 905 W NORTH AV CHICAGO ILL**

## CUSTOM-SIZED, PRE-ASSEMBLED Super-Vent



### WOOD AWNING WINDOWS

- No external hardware—locks automatically.
- Inside screens—100% draft-free ventilation.
- Shipped open or glazed. Completely assembled at factory.
- 24 standard sizes plus picture window combinations.

### SUPER-VENT CO.

905 W. North Ave., Chicago, Ill.  
Write for brochure and specifications

Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa  
Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio

### ▶ WINDOWS, BARN, PLASTIC

Kohl Co 54 American Av Elkhardt Lake Wis

### ▶ WINDOWS, BARN, STEEL

Adams Co Box 268 Dubuque Iowa  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
Clay Equipment Corp 1148 Blake Cedar Falls Iowa  
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Crittall Inc 1319 Lincoln Waukesha Wis  
Croft Steel Prods Inc 10 Market Jamestown NY  
**DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH**  
Donley Bros Co 13910 Miles Av Cleveland 5 Ohio  
Fenestra Building Prods Co 2250 E Grand Blvd Detroit 11 Mich  
Goodcraft Metal Prods Co 2526 Fifth Detroit 1 Mich  
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
James Mfg Co Fort Atkinson Wis  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
**KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL**  
Klauser Mfg Co 9th & Washington Dubuque Iowa  
Louden Machinery Co 261 S Court Fairfield Iowa  
Mesker Bros 6th Poplar & 7th St Louis 15 Mo  
Ney Mfg Co 948 High Av SW Canton 4 Ohio  
Olson Mfg Co 620-24 S Broadway Albert Lea Miss  
Starline Inc Harvard Ill  
**STEELCRAFT MFG CO 9107 BLUE ASH RD ROSSMOYNE OHIO**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
Union Aluminum Co Sheffield Ala  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY**

**▶ WINDOWS, BARN, WOOD**  
American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo  
**ANDERSEN CORP BAYPORT MINN**  
Buffelen Lumber & Mfg Co Box 1595 Tacoma 1 Wash  
Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Cole Mfg Co Box 2652 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**

AMERICAN BUILDER

Marquart Millwork Co Oshkosh Wis  
Midwest Jobbers Inc 3300-08 S Racine Av  
Chicago 8 Ill  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan Sash & Door Co 2287 S Blue Island  
Av Chicago 8 Ill  
National Screen Door Co Box 1887 Mont-  
gomery 3 Ala  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Roach & Musser Co Muscatine Iowa  
Roberson (A) & Son Inc Box 111 Bingham-  
ton NY  
Rock Island Millwork Co Rock Island Ill  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse  
Wis  
Silerest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
WABASH SCREEN DOOR CO 310 S MICHIGAN  
AV CHICAGO 4 ILL  
White Pine Sash Co E 4005 Broadway Spo-  
kane Wash

### ▶ WINDOWS, BASEMENT, ALUMINUM

Adams Co Box 268 Dubuque Iowa  
Alcasco Prods Inc 1780 Creston Muskegon  
Heights Mich  
Alwintite Div General Bronze Corp 50  
Stewart Garden City NY  
Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Compo-Miracle Prods Co 15221 W Eleven  
Mile Rd Berkley Mich  
Croft Steel Prods Inc 10 Market Jamestown  
NY  
Goshen Sash & Door Co E Purl Goshen Ind  
Kaufmann Corp 17210 Gable Detroit 7 Mich  
MAJESTIC CO INC HUNTINGTON IND  
Mueller Brass Co 1925 Lapeer Av Port  
Huron Mich  
PER-FIT PRODS CORP 1200 E 52ND IN-  
DIANAPOLIS 5 IND  
THORN (J S) CO ALLEGHENY AV & 20TH  
PHILADELPHIA 32 PA  
Union Aluminum Co Sheffield Ala  
Valley Metal Prods Co Bridge St Plainwell  
Mich  
Windalume Corp Route 46 Kenvil NJ

### ▶ WINDOWS, BASEMENT, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

### ▶ WINDOWS, BASEMENT, STEEL

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Bogert & Carlough Co Washington Av Pat-  
erson NJ  
Cleveland Steel Specialty Co Inc 3771 E 91st  
Cleveland 5 Ohio  
Decatur Iron & Steel Co 2nd Street W Deca-  
tur Ala  
DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH  
Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich  
FLYNN (MICHAEL) MFG CO 700 E GOD-  
FREY AV PHILADELPHIA 24 PA  
Fries & Son Steel Construction & Engineer-  
ing Co Covington Ky  
HOPE'S WINDOWS INC 84 HOPKINS AV  
JAMESTOWN NY  
International Steel Co 1321 Edgar Evansville  
7 Ind  
KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL  
MAJESTIC CO INC HUNTINGTON IND  
NEW MONARCH MACHINE & STAMPING  
CO 406 SW NINTH DES MOINES 9 IOWA  
THORN (J S) CO ALLEGHENY AV & 20TH  
PHILADELPHIA 32 PA  
TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1050 ALBERT YOUNGSTOWN 1  
OHIO  
UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL  
VENTO STEEL PRODS INC 250 COLO-  
RADO AV BUFFALO 15 NY

### ▶ WINDOWS, BASEMENT, WOOD

ANDERSON CORP BAYPORT MINN  
Anderson (V E) Mfg Co 1515 E 18th Owens-  
boro Ky  
Angel Novelty Co 340 Broad Fitchburg Mass  
Burke Millwork Co Fremont Bridge Seattle  
3 Wash  
CARR ADAMS & COLLIER CO 11TH &  
JACKSON DUBUQUE IOWA  
Cole Mfg Co Box 2652 Memphis 2 Tenn  
CURTIS COS INC 1200 S SECOND AV  
CLINTON IOWA  
Etling Window 24 Huston Barberton Ohio  
Farley & Loetscher Mfg Co Dubuque Iowa  
General Woodcraft Co Inc 3323 Paterson  
Plank Rd North Bergen NJ  
GREGG & SON INC 21-31 BLANDIN AV  
FRAMINGHAM MASS  
Hines (Edward) Lumber Co 77 W Washing-  
ton Chicago 2 Ill  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa

Kinzua Pine Mills Co Kinzua Ore  
LONG-BELL LUMBER CO R A LONG  
BLDG KANSAS CITY 6 MO  
Long Lake Lumber Co Spokane Wash  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Morgan-Wrightman Supply Co 1541 Salzman  
Av St Louis Mo  
Morgan Co 520 Oregon Oshkosh Wis  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Pacific Mutual Door Co Tacoma Bldg Tacoma  
Wash  
Roach & Musser Co Muscatine Iowa  
Rock Island Millwork Co 2525 Fourth Av  
Rock Island Ill  
ROLSCREEN CO PELLA IOWA  
Segelke & Kohlhaus Co 600 S 2nd St LaCrosse  
Wis  
Silerest Co 100 Thomas Wausau Wis  
WABASH SCREEN DOOR CO 310 S MICHIGAN  
AV CHICAGO 4 ILL  
WEATHER-SEAL INC 34 HUSTON BAR-  
BERTON OHIO  
WEYERHAEUSER SALES CO 1ST NA-  
TIONAL BANK BLDG ST PAUL 1 MINN  
White Pine Sash Co E 4005 Broadway Spo-  
kane Wash

### ▶ WINDOWS, BASEMENT & UTILITY, STEEL

Adams Co Box 268 Dubuque Iowa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Bayley (William) Co 1200 Warder Spring-  
field 99 Ohio  
CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL  
Clay Equipment Corp 1148 Blake Cedar Falls  
Iowa  
Copco Steel & Engineering Co 14035 Grand  
River Av Detroit 27 Mich  
Crittall Inc 1319 Lincoln Waukesha Wis  
Croft Steel Prods Inc 10 Market Jamestown  
NY  
DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH  
Donley Bros Co 13910 Miles Av Cleveland 5  
Ohio  
Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich  
FLYNN (MICHAEL) MFG CO 700 E GOD-  
FREY AV PHILADELPHIA 24 PA  
Gabriel Steel Co 13700 Sherwood Av Detroit  
12 Mich  
Goodcraft Metal Prods Co 2526 Fifth Detroit  
1 Mich  
H & R Mfg Co 20080 St Clair Cleveland 17  
Ohio  
HOPE'S WINDOWS INC 84 HOPKINS AV  
JAMESTOWN NY  
Kaptur (Joseph J) & Co 121st & 90th Palos  
Park Ill  
KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL  
INLAND STEEL PRODS CO 4045 W BURN-  
HAM MILWAUKEE 1 WIS  
MAJESTIC CO HALL ST HUNTINGTON  
IND  
Mesker Bros 6th Poplar & 7th St Louis 15  
Mo  
Modern Stainless Specialties Co Div Modern  
Electric Laboratory 306-8 W 69th Chicago  
21 Ill  
NEW MONARCH MACHINE & STAMPING  
CO 406 SW NINTH DES MOINES 9 IOWA  
Soule Steel Co 1750 Army San Francisco 24  
Cal  
STEELCRAFT MFG CO 9017 BLUE ASH RD  
ROSSMOYNE CINCINNATI OHIO  
THORN (J S) CO ALLEGHENY AV & 20TH  
PHILADELPHIA 32 PA  
TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1050 ALBERT YOUNGSTOWN 1  
OHIO  
UNITED STATES GYPSUM CO 300 W  
ADAMS CHICAGO 6 ILL  
VENTO STEEL PRODS CO INC 245 COLO-  
RADO BUFFALO 15 NY

### ▶ WINDOWS, CASEMENT, ALUMINUM

ABC Steel Equipment Co 211 E 22nd New  
York NY  
ABC Steel Equipment Co Inc 17th & First  
Av Tampa 5 Fla  
Adams & Westlake Co Safford St Elkhart Ind  
Alcasco Prods Inc 1780 Creston Muskegon  
Heights Mich  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
All-Lite Metal Window Co Bristol Pa  
Aluminum Home Prods Co Carr & Southern  
Ry Knoxville Tenn  
Aluminum Prods Co 1901 Franklin Av Hous-  
ton Tex  
Bayley (William) Co 1200 Warder Springfield  
99 Ohio  
CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL  
Croft Steel Prods Inc 10 Market Jamestown  
NY  
Fentron Industries Inc 2801 Market Seattle  
7 Wash  
Flour City Ornamental Iron Co 2635 27th  
Av S Minneapolis Minn  
FLYNN (MICHAEL) MFG CO 700 E GOD-  
FREY AV PHILADELPHIA 24 PA

Folmar (R H) Co 205 E Riverside Dr Aust-  
in Tex  
GENERAL BRONZE CORP STEWART AV  
GARDEN CITY NY  
Harris Inc 200 E Long Columbus Ohio  
HIGGINS INC BOX 8001 NEW ORLEANS LA  
Holister Coll Spring Mfg Co 955 E Slauson  
Av Los Angeles Cal  
Huttig Sash & Door Co 1206 S Vanderventer  
Av St Louis 10 Mo  
International Safety Window Corp 121-127  
30th Brooklyn 32 NY  
KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL  
Maco Corp 1345 Henry Huntington Ind  
Marmet Corp Box 208 Wausau Wis  
METAL ARTS MFG CO INC HARWELL &  
OAKCLIFF RDS SW BOX 4144 ATLANTA  
7 GA  
Mueller Brass Co 1925 Lapeer Av Port  
Huron Mich  
Pennsylvania Wire Glass Co 1612 Market  
Philadelphia 3 Pa  
Peterson Window Corp 1341 E Eight-Mile Rd  
Ferndale 20 Mich  
REYNOLDS METALS CO BUILDING  
PRODS DIV 2601 S 9TH LOUISVILLE 1  
KY  
Soule Steel Co 1750 Army San Francisco 24  
Cal  
STEELCRAFT MFG CO 9017 BLUE ASH RD  
ROSSMOYNE OHIO  
Sterling Windows Inc 369 Lexington Av New  
York 17 NY  
Storms (Albert) & Co 101 Park Av New  
York 17 NY  
Superior Window Co 5300 NW 37th Av Miami  
Fla  
THORN (J S) CO ALLEGHENY AV & 20TH  
PHILADELPHIA 22 PA  
Timm Industries Inc 5245 San Fernando Rd  
Los Angeles 39 Cal  
Trim-Set Corp Sub Fentron Steel Wks Inc  
2501 Market Seattle 7 Wash  
TRUSCON STEEL DIV REPUBLIC STEEL  
CORP 1050 ALBERT YOUNGSTOWN 1  
OHIO  
Union Aluminum Co Inc Sheffield Ala  
Universal Corp 6710 Denton Dr Dallas Tex  
Universal Window Co 950 Parker Berkeley  
10 Cal  
Valley Metal Prods Co Bridge St Plainwell  
Mich  
V-Seal Corp 1300 Batavia Rd Royal Oak Mich  
Wagner Iron Wks 1905 S 1st Milwaukee 1  
Wis  
WARE LABORATORIES INC 1827 DELA-  
WARE PKWY MIAMI FLA  
Weather-Proof Co 1409 E 40th Cleveland 3  
Ohio  
Williams Bros Corp Chamblee Ga

### ▶ WINDOWS, CASEMENT, PLASTIC

Kohl Co 54 American Av Elkhart Lake Wis

### ▶ WINDOWS, CASEMENT, STEEL

ABC Steel Equipment Co 211 E 22nd New  
York NY  
Allen Steel Prods Inc 2941 E Ten-Mile Rd  
Hazel Park Mich  
Bayley (William) Co 1200 Warder Spring-  
field Ohio  
CECO STEEL PRODS CORP 5601 W 26TH  
CHICAGO 50 ILL  
CHALLENGER PRODS INC 2601 PENN AV  
PITTSBURGH 22 PA  
Copco Steel & Engineering Co 14035 Grand  
River Av Detroit 27 Mich  
Crittall Inc 1319 Lincoln Waukesha Wis  
Croft Steel Prods Inc 10 Market Jamestown  
NY  
Decatur Iron & Steel Co 2nd St W Decatur  
Ala  
DETROIT STEEL PRODS CO 2250 E  
GRAND BLVD DETROIT 11 MICH  
Fenestra Building Prods 2250 E Grand Blvd  
Detroit 11 Mich  
FLYNN (MICHAEL) MFG CO 700 E GOD-  
FREY AV PHILADELPHIA 24 PA  
Goodcraft Metal Prods Co 2526 Fifth Detroit  
1 Mich  
HOPE'S WINDOWS INC 84 HOPKINS AV  
JAMESTOWN NY  
International Safety Window Corp 121-127  
30th Brooklyn 32 NY  
International Steel Co 1321 Edgar Evansville  
7 Ind  
Kaptur (Joseph J) & Co 121st & 90th Palos  
Park Ill  
KEWANEE MFG CO 150 BURLINGTON AV  
KEWANEE ILL  
Mesker Bros 6th Poplar & 7th St Louis 15  
Mo  
MESKER (GEO L) STEEL CORP 400 NW  
FIRST EVANSVILLE IND  
MICHEL & PFEFFER IRON WKS INC 212  
SHAW RD SOUTH SAN FRANCISCO CAL  
Potts-Farrington Co 1224 Cherry Philadel-  
phia 7 Pa  
Republic Steel Co 1750 Army San Francisco  
Cal  
RUSSELL (F C) CO 1100 CHESTER  
CLEVELAND 1 OHIO  
Soule Steel Co 1750 Army San Francisco 24  
Cal

**STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO**  
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
**THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA PA**  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY**  
Vincar Sales Co Box 2187 S Annex Sta Van Nuys Cal  
Williams & Williams Prods Corp 326-28 E 44th New York 17 NY

**▶ WINDOWS, CASEMENT, WOOD**

American Sash & Door Co 16th & Bellefontaine Kansas City 1 Mo  
**ANDERSEN CORP BAYPORT MINN**  
Biles-Coleman Lumber Co Inc Omak Wash  
**BROWN-GRAVES CO 191 E MILLER AV AKRON 1 OHIO**  
Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Cole Mfg Co Box 2652 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
Keystone Frame & Mfg Co Box 873 Spokane 3 Wash  
Kinzua Pine Mills Co Kinzua Ore  
**LONG-BELL LUMBER CO R A LONG BLDG KANSAS CITY 6 MO**  
Marquart Millwork Co Oshkosh Wis  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Panel Windows Inc 207 Winchester Av Martinsburg W Va  
Pullum Window Corp 12950 Lyndon Av Detroit 27 Mich  
Quigley (J R) Co Gloucester City NJ  
Roach & Musser Co Muscatine Iowa  
Rock Island Millwork Co Rock Island Ill  
**ROLSREEN CO PELLA IOWA**  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
Silerest Co 100 Thomas Wausau Wis  
Snedaker (Frank C) & Co Inc 3531 N 9th Philadelphia 40 Pa  
Spokane Sash & Door Co Spokane Wash  
Wadsworth Inc 2949 Chrysler Rd Kansas City Kans  
**WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO**  
White Pine Sash Co E 4005 Broadway Spokane Wash

**▶ WINDOWS, COMBINATION SCREEN & STORM SASH, ALUMINUM**

Adams Co Box 268 Dubuque Iowa  
Allied Metal Inc 14 Hamilton New London Conn  
Also Inc 260 S Forge Akron Ohio  
Alto Mfg Co 1647 W Wolfram Chicago 13 Ill  
**ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS**  
Alwintite Div General Bronze Corp 50 Stewart Garden City NY  
**B & W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX**  
Barnhart (A W) Co 141 Highland Port Chester NY  
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus Ohio  
Burrowes Corp 70 Free Portland Me  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
**CHALLENGER PRODS INC 2601 PENN AV PITTSBURGH 22 PA**  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Clark-Babbitt Industries Inc 75 Federal Boston 10 Mass  
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich  
Eagle-Piche: Co American Bldg Cincinnati 1 Ohio  
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich  
**GENERAL BRONZE CORP STEWART AV GARDEN CITY NY**  
Hess Mfg Co Quincy Pa  
Hollister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo

490

**INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
**KOTA PRODS INC NORTH COUNTY RD ROCKY POINT LI NY**  
McKinley (Orman O) Co 4530 N Keystone Indianapolis Ind  
Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
**NATIONAL ALUMINUM CORP 1135 ALUM CREEK DR COLUMBUS 9 OHIO**  
Orange Div Eagle Picher Co American Bldg Cincinnati Ohio  
Res Windows Inc 487 Bonham Av Columbus 3 Ohio  
**RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND 2 OHIO**  
Samson Prods Co 3219 Armitage Av Chicago 47 Ill  
Screens & Fabricated Metals Corp 3323 Paterson Plank Rd North Bergen NJ  
Security Sash & Screen Co 385 Midland Detroit 3 Mich  
Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn  
Spanjers (A J) Co 1915 Lilac Dr Minneapolis 12 Minn  
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
Sterling Windows Inc 369 Lexington Av New York NY  
**THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA**  
V-Seal Corp 1390 Batawin Rd Royal Oak Mich  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**  
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio  
Winstrom Mfg Corp 15-32 127th College Point NY  
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md  
Winter Seal Corp 14575 Meyers Rd Detznl 27 Mich

**▶ WINDOWS, COMBINATION SCREEN & STORM SASH, PLASTIC**

Kohl Co 54 American Av Elkhart Lake Wis

**▶ WINDOWS, COMBINATION SCREEN & STORM SASH, STEEL**

Adams Co Box 268 Dubuque Iowa  
Allied Metal Fabricators Inc 77 Hamilton New London Conn  
Barnhart (A W) Co 140 Highland Port Chester NY  
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich  
Compo-Miracle Prods Co 15221 W Eleven Mile Rd Berkley Mich  
Copeo Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Corry-Jamestown Mfg Corp Corry Pa  
Diamond Building Prods Corp 3650 E 93rd Cleveland Ohio  
**GENERAL BRONZE CORP ALWINTITE DIV 801 STEWART AV GARDEN CITY NY**  
**INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL**  
Kane Mfg Corp Box 641 Kane Pa  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
Kaufmann Corp 17210 Gable Detroit 12 Mich  
**MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL**  
Robbins Mfg Co 1815 N Central Pk Chicago 47 Ill  
**RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO**  
State Storm Windows Co Inc 131 Shommaid Syracuse NY  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**

**▶ WINDOWS, COMBINATION SCREEN & STORM SASH, WOOD**

**ALUMATIC CORP OF AMERICA 2081 S 56TH MILWAUKEE 14 WIS**  
**ANDERSEN CORP BAYPORT MINN**  
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky  
Angel Novelty Co 340 Broad Fitchburg Mass  
Anson & Gilkey Co Logan Av & Sales Merrill Wis  
**BROWN-GRAVES CO 191 E MILLER AV AKRON 1 OHIO**  
Buckeye Screen & Weatherstrip Co 1371 S 22nd Columbus Ohio  
Burke Millwork Co Fremont Bridge Seattle 3 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**

Farley & Loetscher Mfg Co Dubuque Iowa  
Feather-Lite Mfg Co 15889 Schaefer Detroit 27 Mich  
General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Jamaica Sash & Door Co 1655 Jericho Turnpike New Hyde Park NY  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Northern Sash & Door Co Hawkins Wis  
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis  
Prentice (F W) & Co 430 N Dean Adrian Mich  
Roberson (A) & Son Inc Box 111 Binghamton NY  
Rock Island Millwork Co 2525 4th Av Rock Island Ill  
Schumacher (F E) Co 200 Mill Hartsville Ohio  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
Self Storing Window Co 2613 Stephens Av S Minneapolis Minn  
Silerest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**  
**WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO**  
**WESTERN LOCK MFG CO 211 N MADISON AV LOS ANGELES 4 CAL**  
Window Conditioning Co 32 Brown Barberton Ohio

**▶ WINDOWS, DOUBLE-GLAZED, HERMETICALLY SEALED**

**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Kesko Prods Inc Box 98 Bristol Ind  
**LIBBEY-OWENS-FORD GLASS CO NICHOLAS BLDG 12TH FL TOLEDO 3 OHIO**  
**PITTSBURGH PLATE GLASS CO 632 FORT DUESNE BLVD PITTSBURGH 22 PA**  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis

**▶ WINDOWS, DOUBLE-HUNG, ALUMINUM**

Adams & Westlake Co Safford St Elkhart Ind  
Alco Inc Box 270 Akron 8 Ohio  
Altex Mfg Co Inc Summerville SC  
Alwintite Div General Bronze Corp 50 Stewart Garden City NY  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL**  
Clark-Babbitt Industries Inc 75 Federal Boston 10 Mass  
Compo-Miracle Prods Co Berkley Mich  
Croft Steel Prods Inc 10 Market Jamestown NY  
Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo  
Eagle-Picher Co American Bldg Cincinnati 1 Ohio  
**FLEET OF AMERICA INC 507 DUNN BLDG BUFFALO 2 NY**  
Flour City Ornamental Iron Co 2635 27th Av S Minneapolis Minn  
**FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA**  
Gall Reversible Window Co Aurora & Cannon Rd Bedford Ohio  
**GENERAL BRONZE CORP STEWART AV GARDEN CITY NY**

for **DEPENDABLE QUALITY** in  
**ALUMINUM WINDOWS**

DOUBLE-HUNG • SLIDING • AWNING  
PANORAMA • PICTURE-SLIDING • VIEWALL



**ALWINTITE**

by **GENERAL BRONZE CORPORATION**  
GARDEN CITY, N. Y.

**AMERICAN BUILDER**

Harris Inc 200 E Long Columbus Ohio  
**HIGGINS INC BOX 8091 NEW ORLEANS LA**  
 Holister Coil Spring Mfg Co 955 Slauson Av  
 Los Angeles Cal  
**HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY**  
 Huttig Sash & Door Co 1206 S Vandeventer  
 Av St Louis 10 Mo  
 International Safety Window Corp 121-127  
 30th Brooklyn 32 NY  
 Kaufmann Corp 17210 Gable Detroit 7 Mich  
 Kewanee Mfg Co Kewanee Ill  
**KOTA PRODS INC NORTH COUNTY RD ROCKY POINT LI NY**  
 Marmet Corp Box 298 Wausau Wis  
**METAL ARTS MFG CO HARWELL & OAK CLIFF RDS SW BOX 4144 ATLANTA GA**  
 Mueller Brass Co 1925 Lapeer Av Port  
 Huron Mich  
 Paramount Casement Window Corp 180-11 Ja-  
 maica Jamaica 3 NY  
 Pennsylvania Wire Glass Co 1612 Market  
 Philadelphia 3 Pa  
**PER-FIT PRODS CORP 1200 E 52ND INDI-  
 ANAPOLIS 20 IND**  
 Peterson Window Corp 1377 East Eight-Mile  
 Rd Ferndale 20 Detroit Mich  
**REYNOLDS METALS CO BUILDING  
 PRODS DIV 2061 S 9TH LOUISVILLE  
 KY**  
**RUSSELL (F C) CO UNION COMMERCE  
 BLDG ANNEX 1100 CHESTER AV  
 CLEVELAND 1 OHIO**  
 Self Storing Window Co Inc 5901 Wayzata  
 Blvd Minneapolis Minn  
**STEEL RAY MFG CO 9017 BLUE ASH RD  
 ROSSMOYNE OHIO**  
 Sterling Windows Inc 369 Lexington Av New  
 York 17 NY  
**THORN (J S) CO ALLEGHENY AV & 20TH  
 PHILADELPHIA PA**  
 Timm Industries 5245 W San Fernando Los  
 Angeles 39 Cal  
 Union Aluminum Co Inc Sheffield Ala  
**WARE LABORATORIES INC 1827 DELA-  
 WARE PKWY MIAMI FLA**  
 Weather-Proof Co 1409 E 40th Cleveland 3  
 Ohio  
 Window Corp of America 3835 9th New  
 York 34 NY  
 Windalume Corp Route 46 Kenvil NJ  
 Wisco Aluminum Corp 3945 A St Detroit  
 Mich

► **WINDOWS,  
 DOUBLE-HUNG, SAFETY**

International Safety Window Corp 121-127  
 30th Brooklyn 32 NY

► **WINDOWS, DOUBLE-HUNG,  
 STEEL**

Adams & Westlake Co Safford St Elkhart  
 Ind  
 American Sheet Metal Wks 325 N Alexander  
 New Orleans La  
**BINSWANGER & CO 207 N MAIN HOUS-  
 TON 1 TEX**  
 Pomeroy (S H) Co Inc 25 Bruckner Blvd  
 New York NY  
 Potts-Farrington Co 1224 Cherry Philadel-  
 phia 7 Pa  
**RUSSELL (F C) CO UNION COMMERCE  
 BLDG ANNEX CLEVELAND 2 OHIO**  
 Southern Wire & Steel Prods Co 528 N 37th  
 Birmingham Ala  
 Steel Window Prods Co 550 Nassau Rd  
 Roosevelt LI NY  
 Sterling Windows Inc 369 Lexington Av New  
 York 17 NY  
**THORN (J S) CO ALLEGHENY AV & 20TH  
 PHILADELPHIA PA**  
**TRUSCON STEEL DIV REPUBLIC STEEL  
 CORP 1050 ALBERT YOUNGSTOWN 1  
 OHIO**

► **WINDOWS,  
 DOUBLE-HUNG, WOOD**

**ARB WINDOW SALES CO 306 E STATE  
 FAIR AV DETROIT 3 MICH**  
 Ac Seal-Rite Mfg Co 26015 W Warren Rd  
 Garden City Mich  
 Acme Tile & Flooring Co 159 Water New  
 Haven Conn  
 American Sash & Door Co 16th & Bellefon-  
 taine Kansas City 1 Mo  
**ANDERSEN CORP BAYPORT MINN**  
 Anson & Gilkey Co Logan Av & Sales Merrill  
 Wis  
 Bache (Semon) & Co 636 Greenwich New York  
 14 NY  
 Biles-Coleman Lumber Co Inc Omak Wash  
 Buffelen Lumber & Mfg Co Box 1595 Tacoma  
 1 Wash  
 Burke Millwork Co Fremont Bridge Seattle  
 3 Wash  
**CARR ADAMS & COLLIER CO 11TH &  
 JACKSON DUBUQUE IOWA**  
 Cole Mfg Co Box 2651 Memphis 2 Tenn  
**CURTIS COS INC 1200 S SECOND AV  
 CLINTON IOWA**  
 Deer Park Pine Industry Inc Deer Park  
 Wash

Dierks Lumber & Coal Co 700 Dierks Bldg  
 Kansas City 6 Mo  
 Dixon Industries 315 E Jackson Spokane  
 Wash  
 Etling Window Barberton Ohio  
 Fabrow Mfg Inc 7208 Douglas Rd Toledo  
 Ohio  
 Farley & Loetscher Mfg Co Dubuque Iowa  
 General Woodcraft Co 3323 Paterson Plank  
 Rd North Bergen NJ  
 Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 2131 BLANDIN AV  
 FRAMINGHAM MASS**  
 Hines (Edward) Lumber Co 77 W Washing-  
 ton Chicago 2 Ill  
 Hotchkiss Bros Co Torrington Conn  
 Hurd Millwork Corp Medford Wis  
 Huttig Mfg Co Muscatine Iowa  
 Huttig Sash & Door Co 1206 S Vandeventer  
 Av St Louis 10 Mo  
 Hyde-Murphy Co Murphy Bldg Ridgway Pa  
 Ideal Co 24th & Mary Waco Tex  
 International Safety Window Corp 121-127  
 30th Brooklyn 32 NY  
 Keystone Frame & Mfg Co 3629 E Riverside  
 Spokane 3 Wash  
 Kinzua Fine Mills Co Kinzua Ore  
 Letracon Building Prods 8 Broadway New  
 York 4 NY  
 Lockwood Wood Prods Box 338 Beaverton  
 Ore  
**LONG-BELL LUMBER CO R A LONG  
 BLDG KANSAS CITY 6 MO**  
**MALTA MFG CO 35 ELLIOTT MALTA  
 OHIO**  
 Marquart Millwork Co 50 Ceape Oshkosh Wis  
 Midwest Jobbers Inc 3300-08 S Racine Av  
 Chicago 8 Ill  
 Missoula White Pine Sash Co Scott & Stod-  
 dard Missoula Mont  
 Morgan-Wightman Supply Co 1541 Salzman  
 Av St Louis 10 Mo  
 Morgan Co 529 Oregon Oshkosh Wis  
 Morgan Sash & Door Co 2287 S Blue Island  
 Av Chicago 8 Ill  
 Northern Sash & Door Co Hawkins Wis  
 Northwest Door Co Box 1477 Tacoma 1 Wash  
 Pacific Mfg Co 2610 The Alameda Santa Clara  
 Cal  
 Pacific Mutual Door Co Tacoma Bldg Tacoma  
 Wash  
 Fulum Window Corp 12950 Lyndon Av De-  
 troit 27 Mich  
 Quigley (J R) Co Gloucester City NJ  
**R O W SALES CO 1365 ACADEMY FERN-  
 DALE MICH**  
 Roach & Musser Co Muscatine Iowa  
 Roberson (A) & Son Inc Box 111 Bingham-  
 ton NY  
 Rock Island Millwork Co Rock Island Ill  
 Rockwell Sales Corp 20 N Wacker Dr Chi-  
 cago 2 Ill  
 Segelke & Kohlhaus Co 600 S 2nd LaCrosse  
 Wis  
 Semling-Menke Co S Nast St Merrill Wis  
 Silcrest Co 100 Thomas Wausau Wis  
 Snedaker (Frank C) & Co Inc 3531 N 9th  
 Philadelphia 40 Pa  
**WABASH SCREEN DOOR CO 310 S WA-  
 BASH CHICAGO ILL**  
**WEATHER-SEAL INC 24 HUSTON BAR-  
 BERTON OHIO**  
 Western Pine Mfg Co Ltd 315 E Jackson  
 Spokane Wash  
**WEYERHAEUSER SALES CO 1ST NAT'L  
 BANK BLDG ST PAUL 1 MINN**  
 White Pine Sash Co E 4005 Broadway Spo-  
 kane Wash  
 Williams Prods Co Inc 6127 Cedar Av Phila-  
 delphia 43 Pa

► **WINDOWS, GLASS BLOCK &  
 SLIDING SASH**

Allen Steel Prods Inc 2941 E Ten-Mile Rd  
 Hazel Park Mich  
 Cadillac Glass Co 2100 S Peoria Chicago 8 Ill  
 Gensco Tools 1830 N Kostner Av Chicago 39  
 Ill  
 Kerr (Alexander H) & Co Inc 3440 Wilshire  
 Blvd Suite 816 Los Angeles 5 Cal  
 Marmet Corp Box 208 Wausau Wis  
 Valley Metal Prods Co Bridge St Plainwell  
 Mich

► **WINDOWS, HORIZONTAL  
 GLIDING, METAL**

Glide Windows Inc 7463 Varna Av North  
 Hollywood Cal  
**KOTA PRODS INC N COUNTY RD ROCKY  
 POINT LI NY**  
 Lehman Spraysheld Co 3355 York Rd Phila-  
 delphia 40 Pa  
**PANAVIEW 13434 RAYMER NORTH HOL-  
 LYWOOD CAL**  
**PER-FIT PRODS CORP 1200 E 52ND IN-  
 DIANAPOLIS 5 IND**  
 Peterson Window Corp 1377 E 8-Mile Rd  
 Ferndale 20 Mich  
**RUSSELL (F C) CO UNION COMMERCE  
 BLDG ANNEX 1100 CHESTER AV  
 CLEVELAND 1 OHIO**  
**SLIDE-VIEW DOOR & WINDOW CO 521  
 N LACIENEGA BLVD LOS ANGELES  
 CAL**  
 Steelbilt Inc 18001 S Figueroa Gardena Cal

**Nixalite**  
 TRADE MARK REG  
**BIRD REPELLENT  
 AND CONTROL**



**RIDS BUILDINGS  
 OF BIRDS**

NIXALITE properly installed on stores; office, apartment and public buildings; homes; churches; signs and similar places pigeons, starlings and other obnoxious birds land or roost compels them to fly and stay away.

Inconspicuous \* Spring Tempered \* Nickel Bearing Stainless Steel \* Porcupine like device \* Projecting needle sharp points in the form of a semi-circle \* 120 in every foot \* Myriads of firm resilient prongs welded and embedded in a flexible rust proof base bar.

Can be installed on any type surface and every kind of material to keep your building clean.



Precision engineered • 3-3/4" high • 4-1/4" wide • fabri-  
 cated in four foot lengths •  
 furnished complete with special  
 clips and fasteners for any type  
 construction

When NIXALITE is installed there is no further expense. No electricity. No repairing. No replacement. No labor. No maintenance.

**LASTS INDEFINITELY.**

Also see Sweets Catalog "Metals 5h-Ni".

Write for "Illustrated Installations" giving name of your distributor.

**NIXALITE COMPANY  
 OF AMERICA**

115-119 W. Third St.,  
 Davenport, Iowa, U. S. A.

VISTA SLIDING DOORS 7052 LAUREL CANYON BLVD NORTH HOLLYWOOD CAL  
Vita Automatic Windows Inc 6530 Queens Blvd Woodside LI NY  
Williams Prods Co Inc 6127 Cedar Av Philadelphia 43 Pa

### ▶ WINDOWS, HORIZONTAL GLIDING, WOOD

ARB WINDOW SALES CO 306 E STATE FAIR AV DETROIT 3 MICH  
ANDERSEN CORP BAYPORT MINN  
Anson & Gilkey Co Merrill Wis  
Burke Millwork Co Fremont Bridge Seattle 11 Wash  
Goshen Sash & Door Co E Purl Goshen Ind  
Kinzua Pine Mills Co Kinzua Ore  
Morgan Co 520 Oregon Oshkosh Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Pierson (Ernest) Co 4190 Broadway Eureka Cal

R D W SALES CO 1365 ACADEMY FERNDALE 20 MICH  
Silcrest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
Western Pine Mfg Co 315 E Jackson Spokane 7 Wash  
White Pine Sash Co E 4005 Broadway Spokane Wash

### ▶ WINDOWS, IRON WROUGHT

Menker Bros 6th Poplar & 7th St Louis 15 Mo

### ▶ WINDOWS, LOUVRE, ALUMINUM

Air Control Prods 3601 NW 54th Miami Fla  
Fenton Industries Inc 2801 Market Seattle 7 Wash  
Hollywood Louvre Window Co 3055 N California Burbank Cal  
Kaufmann Corp 17210 Gable Detroit 12 Mich  
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY  
LUDMAN CORP 14100 BISCAYNE BLVD NORTH MIAMI FLA  
Midwest LouvreLite Co 2040 W Washington Blvd Chicago 12 Ill  
Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
Pro-Tect-U Jalousie Corp 4525 Ponce De Leon Blvd Coral Gables Fla  
Trim-Set Corp Sub Fentron Steel Wks Inc 2801 Market Seattle 7 Wash  
Union Aluminum Co Sheffield Ala  
Van Ness Louvre Co 8354 San Fernando Rd Sun Valley Cal  
Ventilite Corp 5556 Biscayne Blvd Miami 37 Fla  
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md

### ▶ WINDOWS, LOUVRE, STEEL

Stewart Iron Wks Co Inc 1645 Stewart Block Cincinnati Ohio  
SUN SASH CO 38 PARK ROW NEW YORK NY

### ▶ WINDOWS, PIVOTED & PROJECTED, ALUMINUM

ABC Steel Equipment Co 211 E 22nd New York NY  
ABC Steel Equipment Co 17th & First Av Tampa 5 Fla  
Adams Co Box 268 Dubuque Iowa  
Alcasco Prods Inc 1780 Creston Muskegon Mich  
Altex Mfg Co Inc Summerville SC  
Aluminum Home Prods Co Carr at Southern Ry Box 10021 Knoxville Tenn  
Bayley (William) Co 1200 Warder Springfield 99 Ohio  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo  
Flour City Ornamental Iron Co 2635 27th Av S Minneapolis 6 Minn  
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA  
R H Folmar Co 205 E Riverside Dr Austin Tex  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
Gall Reversible Window Co Aurora & Cannon Rd Bedford Ohio  
GENERAL BRONZE CORP STEWART AV GARDEN CITY NY  
Marmet Corp Box 208 Wausau Wis  
Storms (Albert) & Co 101 Park Av New York 17 NY  
Superior Window Co 5300 NW 37th Av Miami Fla  
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA  
Timm Industries Inc 5245 W San Fernando Rd Los Angeles 26 Cal  
Union Aluminum Co Sheffield Ala

Valley Metal Prods Co Bridge St Plainwell Mich  
WARE LABORATORIES INC 3700 NW 25TH MIAMI FLA  
Williams Bros Corp Chamblee Ga  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ▶ WINDOWS, PIVOTED & PROJECTED, STEEL

Adams Co Box 268 Dubuque Iowa  
Bayley (William) Co 1200 Warder Springfield Ohio  
Bogert & Carrough Co Washington Av Paterson NJ  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Crittall Inc 1319 Lincoln Waukesha Wis  
Decatur Iron & Steel Co 2nd St W Decatur Ala  
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH  
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA  
Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
H & R Mfg Co 20080 St Clair Cleveland 17 Ohio  
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY  
International Steel Co 1321 Edgar Evansville 7 Ind  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
Marquart Millwork Co 50 Ceape Oshkosh Wis  
Mesker Bros 6th Poplar & 7th St Louis 15 Mo  
MESKER (GEO L) STEEL CORP 400 NW FIRST EVANSVILLE IND  
MICHEL & PFEFFER IRON WKS INC 212 SHAW RD SOUTH SAN FRANCISCO CAL  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Soule Steel Co 1750 Army San Francisco 24 Cal  
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
Stewart Iron Wks Co 1645 Stewart Block Cincinnati 3 Ohio  
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA  
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO  
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY  
Wisconsin Face Brick & Supply Corp 4485 N Green Bay Av Milwaukee Wis

### ▶ WINDOWS, PIVOTED & PROJECTED, WOOD

Farley & Loetscher Mfg Co Dubuque Iowa  
Goodcraft Metal Prods 2526 Fifth Av Detroit 1 Mich  
Hayman Window Co 4401 Race Denver 16 Colo  
Hurd Millwork Corp Medford Wis  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Rock Island Millwork Co Rock Island Ill  
Segelke & Kohlhaus Co 600 E 2nd LaCrosse Wis  
Silcrest Co 100 Thomas Wausau Wis

### ▶ WINDOWS, ROUND, WOOD

CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA  
CURTIS COS INC 1290 S SECOND AV CLINTON IOWA  
Farley & Loetscher Mfg Co Dubuque Iowa  
Goshen Sash & Door Co E Purl Goshen Ind  
Webb Mfg Co Conneaut Ohio

### ▶ WINDOWS, SECURITY, STEEL

Adams Co Box 268 Dubuque Iowa  
Bayley (William) Co 1200 Warder Springfield Ohio  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Copco Steel & Engineering Co 14035 Grand River Av Detroit 27 Mich  
Crittall Inc 1319 Lincoln Waukesha Wis  
Croft Steel Prods Inc 10 Market Jamestown NY  
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH  
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
FLYNN (MICHAEL) MFG CO 700 E GODFREY AV PHILADELPHIA 24 PA  
Gabriel Steel Co 13700 Sherwood Detroit 12 Mich  
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY

International Steel Co 1321 Edgar Evansville 7 Ind  
Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
Mesker Bros 6th Poplar & 7th St Louis 15 Mo  
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA  
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO  
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY

### ▶ WINDOWS, STORM, ALUMINUM

Adams Co Box 268 Dubuque Iowa  
All Weather Jalousies Inc State Hwy 46 Teborbo NJ  
Alcoa Inc 260 S Forge Akron Ohio  
Altex Mfg Co 1647 W Wolfram Chicago 13 Ill  
Alwintite Div General Bronze Corp 50 Stewart Garden City NY  
B & W ENTERPRISES 3521 SWEETWOOD HOUSTON 19 TEX  
Barnhart (A W) Co 140 Highland Port Chester NY  
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus 6 Ohio  
CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 50 ILL  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Eagle-Fischer Co American Bldg Cincinnati 1 Ohio  
Hettrick (W E) & Son Co Toledo 1 Ohio  
INGERSOLL PRODS DIV BORG-WARNER CORP 310 S MICHIGAN AV CHICAGO 4 ILL  
Kane Mfg Corp Box 641 Kane Pa  
KOTA PRODS INC N COUNTY RD ROCKY POINT LI NY  
Plymouth Metal Prods Inc 505 W Harrison Plymouth Ind  
Rex Windows Inc 487 Bonham Av Columbus 3 Ohio  
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX 1100 CHESTER AV CLEVELAND 1 OHIO  
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO  
Steel Window Prods Co 175-34 Hillside Av Jamaica 3 NY  
Sterling Windows Inc 369 Lexington Av New York 17 NY  
Universal Fabricators 1785-1829 Boone Av New York 60 NY  
Vulcan Metal Prods 2801 6th Av S Birmingham Ala  
WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL  
Wilson (L S) Mfg Co 7421 S Loomis Blvd Chicago 38 Ill  
Winsulite Mfg Co 725 N Central Av Baltimore 2 Md  
Wisco Aluminum Corp 3945 "A" St Detroit Mich

### ▶ WINDOWS, STORM, STEEL

Adams Co Box 268 Dubuque Iowa  
Barnhart (A W) & Co 140 Highland Port Chester NY  
Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
Croft Steel Prods Inc 10 Market Jamestown NY  
Decatur Iron & Steel Co 2nd St W Decatur Ala  
DETROIT STEEL PRODS CO 2250 E GRAND BLVD DETROIT 11 MICH  
Fenestra Building Prods 2250 E Grand Blvd Detroit 11 Mich  
Holister Coil Spring Mfg Co 955 E Slauson Av Los Angeles Cal  
HOPE'S WINDOWS INC 84 HOPKINS AV JAMESTOWN NY  
Kane Mfg Corp Box 641 Kane Pa  
KEWANEE MFG CO 150 BURLINGTON AV KEWANEE ILL  
Lockhart Mfg Corp 6350 E Davidson Av Detroit 12 Mich  
Mesker Bros 6th Poplar & 7th St Louis 15 Mo  
NEW MONARCH MACHINE & STAMPING CO 486 SW NINTH DES MOINES IOWA  
Paramount Casement Window Corp 180-11 Jamaica Jamaica 3 NY  
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
RUSSELL (F C) CO UNION COMMERCE BLDG ANNEX CLEVELAND 2 OHIO  
Security Sash & Scream Co 385 Midland Detroit 3 Mich  
STEELCRAFT MFG CO 9017 BLUE ASH RD ROSSMOYNE CINCINNATI OHIO  
Steel Window Prods Co 550 Nassau Rd Roosevelt LI NY  
THORN (J S) CO ALLEGHENY AV & 20TH PHILADELPHIA 32 PA  
TRUSCON STEEL DIV REPUBLIC STEEL CORP 1650 ALBERT YOUNGSTOWN 1 OHIO  
VENTO STEEL PRODS CO INC 245 COLORADO AV BUFFALO 15 NY

WARE LABORATORIES INC 1827 DELAWARE FWY MIAMI FLA  
Weather-Proof Co 1409 E 40th Cleveland 3 Ohio

**▶ WINDOWS, STORM, WOOD**

**ANDERSEN CORP BAYPORT MINN**  
Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky  
Anson & Gelkey Co Logan Av & Sales Merrill Wis  
**BROWN-GRAVES CO 191 E MILLER AV AKRON 1 OHIO**  
Buckeye Screen & Weatherstrip Co 1378 S 22nd Columbus Ohio  
Burke Millwork Co Fremont Bridge Seattle 11 Wash  
**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Chamberlin Co of America Inc 1254 LaBrosse Detroit 26 Mich  
Cole Mfg Co Box 2657 Memphis 2 Tenn  
Continental Screen Co 1323 Book Bldg Detroit 28 Mich  
**CURTIS COS INC 1200 S SECOND AV CLINTON IOWA**  
Farley & Loetscher Mfg Co Dubuque Iowa  
Goshen Sash & Door Co E Purl Goshen Ind  
**GREGG & SON INC 21-31 BLANDIN AV FRAMINGHAM MASS**  
Hines (Edward) Lumber Co 77 W Washington Chicago 2 Ill  
Hoosier Sash & Door Co Anderson Ind  
Hurd Millwork Corp Medford Wis  
Huttig Mfg Co Muscatine Iowa  
Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
Kinzua Pine Mills Co Kinzua Ore  
**LONG-BELL LUMBER CO R A LONG BLDG 926-8 GRAND AV KANSAS CITY 6 MO**  
Marquart Millwork Co 50 Cape Oshkosh Wis  
Missoula White Pine Sash Co Scott & Stoddard Missoula Mont  
Morgan Co 520 Oregon Oshkosh Wis  
Morgan Sash & Door Co 2287 S Blue Island Av Chicago 8 Ill  
National Screen Co Inc Madison Av Extended Suffolk Va  
National Screen Door Co Box 1887 Montgomery 3 Ala  
Northern Sash & Door Co Hawkins Wis  
Northwest Door Co Box 1477 Tacoma 1 Wash  
Pacific Mutual Door Co Tacoma Bldg Tacoma Wash  
Phenix Mfg Co 4129 N Port Washington Rd Milwaukee 12 Wis

Prentice (F W) & Co 430 N Dean Adrian Mich  
Roach & Musser Co Muscatine Iowa  
Robbins Mfg Co 1815 N Central Park Chicago 47 Ill  
Rock Island Millwork Co Rock Island Ill  
Schumacher (F E) Co 200 Mill Hartsville Ohio  
Segelke & Kohlhaus & Co 600 S 2nd LaCrosse Wis  
Semling-Menke Co S Naat St Merrill Wis  
Seneca Lumber & Millwork Co 635-701 W Tiffin Fostoria Ohio  
Silerest Co 100 Thomas Wausau Wis  
Spokane Sash & Door Co Spokane Wash  
Vimcar Sales Co Box 2187 S Annex Sta Van Nuys Cal  
**WABASH SCREEN DOOR CO 310 S MICHIGAN AV CHICAGO 4 ILL**  
**WEATHER-SEAL INC 24 HUSTON BARBERTON OHIO**  
White Pine Sash Co E 4005 Broadway Spokane Wash  
Window Conditioning Co 32 Brown Barberton Ohio

**▶ WINDOWS, VERTICAL GLIDING, ELECTRICALLY OPERATED**

**RUSSELL (F C) CO 1100 CHESTER CLEVELAND 1 OHIO**  
Vita Automatic Windows Inc 6530 Queens Blvd Woodside LI NY

**▶ WINDOWS, WOOD WITH LOUVRES BELOW**

**CARR ADAMS & COLLIER CO 11TH & JACKSON DUBUQUE IOWA**  
Hurd Millwork Corp Medford Wis  
Segelke & Kohlhaus Co 600 S 2nd LaCrosse Wis  
Solar Air-Flor Co 600 E Purl Goshen Ind

**▶ WIRE**

Allegheny Ludlum Steel Co Oliver Bldg Pittsburgh 22 Pa  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
Badger Corrugating Co 1801 West Av S LaCrosse Wis  
**BERGER MFG CO DIV REPUBLIC STEEL CORP 1938 BELDEN AV NE CANTON 5 OHIO**

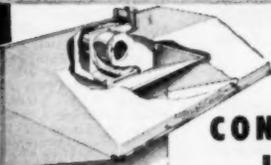
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal  
**KEYSTONE WIRE CLOTH CO FACTORY ST HANOVER PA**  
Mid States Steel & Wire Co Crawfordsville Ind  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill

**▶ WIRE, BARBED**

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Chain Link Fence Co 24 Ship Av Medford Mass  
**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bambrick (Richard J) 125 Broad New York 4 NY  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
Columbia Steel Co Russ Bldg San Francisco 6 Cal  
Continental Steel Corp Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Dare Prods Inc Box 157 Battle Creek Mich  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Jones & Laughlin Corp 3 Gateway Center Pittsburgh Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 7 ILL**  
Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1725 ROCKINGHAM RD DAVENPORT IOWA**  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa

**COOKING VENTILATION BUYERS!**

There's MORE to  
**COOKING VENTILATION**  
Than Just  
Moving Air!



**CONTROL IT!**

**STOP Destructive COOKING GREASE, HEAT and STEAM at the STOVE!**

*Vent-A-Hood*  
**KEEPS THEM FROM SPREADING!**

Make a simple bacon frying test on your stove. With no hood, wall or ceiling fan, your walls and ceiling will have to be your hood... your doors and windows your vents. In seconds your kitchen is hotter and visible grease vapors cloud the room. Bacon is detected in every room and this vapor-odor becomes a rancid film on woodwork, walls and furnishings.

Now imagine a half hood (not covering the skillet) with this hot, buoyant grease racing past it. Imagine a wall fan attempting to deflect this rapidly rising hot vapor! A ceiling fan gets the real challenge because when greasy cooking vapor has risen that high it has saturated the room air... filling the entire room.

How clearly is seen the need for a full covering Vent-A-Hood to TRAP and CONSUME cooking heat, grease and steam before they spread. Vent-A-Hood removes 300 cu. ft. of hood-trapped hot, greasy vapors every cooking minute. It is providing positive, CONTROLLED ventilation in over 325,000 homes. Vent-A-Hood will thoroughly protect your home from cooking grease... its worst enemy.

**WRITE FOR COMPLETE DETAILS TODAY**

Tell me more about this thoroughly engineered domestic cooking heat, grease and steam confinement and removal.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

*Vent-A-Hood*

1903 PLANTATION ROAD DALLAS, TEXAS

**HOME COOKING VENTILATION SPECIALISTS**



**Do more work, make more money with CMC Hoe Type Mixers**



Above, NO. 6 WONDER

**No other mixers can compare in performance, dependability**

CMC Hoe-Type Mixers are real producers. They speed up work, save many man hours on every job and are known everywhere for their quality and rugged construction.

CMC Hoe-Type Mixers are the result of over 40 years of mixer manufacturing experience. There's a complete range from the 3½-4½ foot Hoe Boy through two 6-foot models, an 8 and 12-foot Mechanical Hoeman.



HOE BOY



MECHANICAL HOEMAN

**CONSTRUCTION MACHINERY COMPANY • Waterloo, Iowa**

Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ WIRE, ELECTRICAL

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Anaconda Wire & Cable Co 25 Broadway New York NY  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY  
General Cable Corp 420 Lexington Av New York 17 NY  
**GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN**  
Hazard Insulated Wire Wks Div Okonite Co Wilkes-Barre Pa  
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal  
**NATIONAL ELECTRIC PRODS CORP 2 GATEWAY CENTER PITTSBURGH 22 PA**  
Okonite Co Passaic NJ  
Paranite Wire & Cable Div Essex Wire Corp 1601 Wall Fort Wayne 6 Ind  
Roebbing's (John A) Sons Corp Trenton 2 NJ  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Sparzo Wire Co 560 E Railroad Rome NY  
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal  
United States Rubber Co 1230 Avenue of the Americas New York 20 NY

### ▶ WIRE, GALVANIZED STEEL

Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
American Chain Link Fence Co 24 Ship Av Medford Mass  
**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Armed Steel Corp 703 Curtis Middletown Ohio  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bethlehem Steel Corp 701 E Third Bethlehem Pa  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
Columbia Steel Co Russ Bldg San Francisco 6 Cal  
Continental Steel Corp Kokomo Ind  
Dare Prods Inc Box 157 Battle Creek Mich  
Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
**GULF STEEL & WIRE CO BAYAMON 39 PUERTO RICO USA**  
Johnson Steel & Wire Co Worcester Mass  
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh Pa  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 1 ILL**  
Laclede Steel Co Arcade Bldg St Louis Mo  
Mid States Steel & Wire Co Crawfordsville Ind  
**NICHOLS WIRE & ALUMINUM CO 1729 ROCKINGHAM RD DAVENPORT IOWA**  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Ryerson (Joseph T) & Son 2558 W 16th Chicago 8 Ill  
Seneca Wire & Mfg Co Fostoria Ohio  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**  
Wilson Steel & Wire Co 4840 S Western Av Chicago 9 Ill  
Youngtown Sheet & Tube Co Frank Purnell Bldg Youngstown 1 Ohio

### ▶ WIRE PULLERS & STRETCHERS

**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Bethlehem Steel Co 701 E Third Bethlehem Pa  
Continental Steel Corp Kokomo Ind  
Durbin-Durco 6600 Olive St Louis 5 Mo  
Franklin Equipment Co Monticello Iowa  
Klein (Mathias) & Sons 3200 W Belmont Chicago 18 Ill  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 1 ILL**  
Louden Machinery Co 261 Court Fairfield Iowa

Ney Mfg Co 948 High Av SW Canton 4 Ohio  
Northwestern Steel & Wire Co 1927 Griswold Sterling Ill  
Pittsburgh Steel Prods Co Box 118 Pittsburgh 30 Pa  
Sterling Foundry Co Box 457 Sterling Ill

### ▶ WIRE, TIE

Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham 1 Ala  
Allen Steel Prods Inc 2941 E Ten-Mile Rd Hazel Park Mich  
**AMERICAN STEEL & WIRE DIV US STEEL CORP ROCKEFELLER BLDG CLEVELAND 13 OHIO**  
Badger Corrugating Co 1801-39 West Av S LaCrosse Wis  
Bethlehem Steel Corp 701 E Third Bethlehem Pa  
Bostwick Steel Lath Co 101 Heaton Av Niles Ohio  
**CECO STEEL PRODS CORP 5601 W 26TH CHICAGO 58 ILL**  
**CHASE BRASS & COPPER CO INC 236 GRAND WATERBURY 20 CONN**  
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo  
Columbia-Geneva Steel Div US Steel Corp Russ Bldg San Francisco 6 Cal  
Continental Steel Corp Kokomo Ind  
Copperweld Steel Co 322 Frick Bldg Pittsburgh 19 Pa  
Heckmann Bldg Prods Co 4018 W Lake Chicago 24 Ill  
**INLAND STEEL PRODS CO 4045 W BURNHAM MILWAUKEE 1 WIS**  
International Nickel Co Inc 67 Wall New York 5 NY  
Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Cal  
**KEYSTONE STEEL & WIRE CO 7000 S ADAMS PEORIA 1 ILL**  
Laclede Steel Co Arcade Bldg St Louis Mo  
Mid States Steel & Wire Co Crawfordsville Ind  
**NATIONAL GYPSUM CO 325 DELAWARE AV BUFFALO 2 NY**  
**PENN METAL CO INC 205 E 42ND NEW YORK 17 NY**  
Republic Steel Corp Republic Bldg Cleveland 1 Ohio  
Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo  
Sommer Metalcraft Corp 315 Poston Dr Crawfordsville Ind  
**SYMONS CLAMP & MFG CO 4249 DIVERSEY AV CHICAGO 39 ILL**  
Tennessee Coal & Iron Div US Steel Corp Fairfield Ala  
**TRUSCON STEEL DIV REPUBLIC STEEL CORP 1050 ALBERT YOUNGSTOWN 1 OHIO**  
**UNITED STATES GYPSUM CO 300 W ADAMS CHICAGO 6 ILL**  
**WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP 575 MADISON AV NEW YORK 19 NY**

### ▶ WIRING, ELECTRICAL, MULTI-OUTLET

Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY  
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal  
**WIREFOLD CO STATION A HARTFORD 10 CONN**

### ▶ WIRING SYSTEMS, REMOTE CONTROL

**GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DIV 1285 BOSTON AV BRIDGEPORT 2 CONN**  
Sierra Electric & Mfg Co 544 E 31st Los Angeles Cal  
Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal

### ▶ WOOD, BALSAM

Balsa Ecuador Lumber Corp 500 Fifth Av New York 36 NY  
Johnson & Carlson 848 W Eastman Chicago 22 Ill  
Luthi (F C) & Co 214 Balter Bldg New Orleans 12 La  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
US Challenge & Challenge Co 1441 N Kingsbury Chicago 22 Ill

### ▶ WOOD, PLASTIC

Boyle-Midway Inc 22 E 40th New York 16 NY

Durham (Donald) Co Box 804 Des Moines 4 Iowa  
National Casein Sales 601 W 80th Chicago 20 Ill  
**PITTSBURGH PLATE GLASS CO 632 FORT DUQUESNE BLVD PITTSBURGH 22 PA**  
Schalk Chemical Co 351 E Second Los Angeles 12 Cal  
Webb Prods Co 216 S "G" San Bernardino Cal

### ▶ WOOD SEALERS

Aetna Plywood & Veneer Co 1731 N Elston Av Chicago 22 Ill  
Akron Paint & Varnish Co 1390 Firestone Pkwy Akron Ohio  
**AMERICAN FLOOR SURFACING MACHINE CO 527 S ST CLAIR TOLEDO 3 OHIO**  
**ATLAS PLYWOOD CORP 1432 STATLER BLDG BOSTON 16 MASS**  
**BRUCE (E L) CO 1648 THOMAS BOX 397 MEMPHIS 1 TENN**  
Chapman Chemical Co 707 Dermon Bldg Memphis 2 Tenn  
Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
Devore & Raynolds Co Inc 787 First Av New York 17 NY  
DuPont (E I) de Nemours & Co 1007 Market Wilmington 98 Del  
Forman-Ford & Co 111 E Second Minneapolis Minn  
Gordon Chemical Co Inc 1100 Hickory Kansas City 7 Mo  
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
Horn (A C) Co Inc Tenth & 44th Av Long Island City 1 NY  
Johnson (S C) & Co Inc 1525 Howe Racine Wis  
Kyanize Paints Inc Second & Boston Everett 49 Mass  
Lasting Prods Co Franklinton Rd Baltimore 23 Md  
Linsseed Oil Prods 355 Del Monte Pasadena Cal  
Maas & Waldstein 2121 McCarter Hwy Newark 4 NJ  
Malex Chemical Corp 1107 E 8th Los Angeles 21 Cal  
Moore (Benjamin) & Co 511 Canal New York 13 NY  
National Lead Co 111 Broadway New York 6 NY  
Paxton (Frank) Lumber Co 6311 St John Av Kansas City Mo  
Plytex Corp 1731 Elston Av Chicago 22 Ill  
Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
**RODDIS PLYWOOD CORP 1155 PALMETTO MARSHFIELD WIS**  
Sherwin-Williams Co 101 Prospect Av Cleveland Ohio  
Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
Tufcrete Co Inc 552 Teachout Bldg Des Moines 9 Iowa  
Twin City Hardwood Lumber Co 509 N Cleveland Av St Paul 14 Minn  
**UNITED STATES PLYWOOD CORP 55 W 44TH NEW YORK 36 NY**  
Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo

### ▶ WOOD SEALERS, KNOT

Forman-Ford & Co 111 E Second Minneapolis Minn  
Grand Rapids Varnish Corp 1350 Steele Av SW Grand Rapids 2 Mich  
**WOOD CONVERSION CO FIRST NATIONAL BANK BLDG ST PAUL 1 MINN**

### ▶ WOODWORKING MACHINES

American Woodworking Machinery Co 100 Liberty Hackettstown NY  
**ATLAS PRESS CO 1819 N PITCHER KALAMAZOO MICH**  
Beach Mfg Co Mill & Boyer Montrose Pa  
**BELSAW MACHINERY CO 315 WESTPORT RD KANSAS CITY 1 MO**  
Black Bros Inc 503 9th Av Mendota Ill  
**BOICE-CRANE CO 930 W CENTRAL AV TOLEDO 6 OHIO**  
Buss Machine Wks 8th & Eldon Holland Mich C H & E Mfg Co 3849 N Palmer Milwaukee 2 Wis  
C K L Machinery Co 160 Harrison Oshkosh Wis  
Chase Turbine Mfg Co Orange Mass  
Chattanooga Machinery Co Bennett Av Chattanooga 4 Tenn  
Circo Tool Co 3805 W Lisbon Milwaukee Wis  
Consolidated Machinery & Supply Co Ltd 2031 Santa Fe Av Los Angeles 21 Cal  
Cooke (R F) Mfg Co Cooke Pl Orange Mass  
**CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP 4740 N RAVENSWOOD AV CHICAGO 40 ILL**  
Curtis Machine Corp 1300 E Second Jamestown NY  
Dependable Machine Co Box 1235 Sedgfield Greensboro NC  
**DEWALT INC FOUNTAIN AV BOX 540 LANCASTER PA**

Ekstrom Carlson & Co 1439 Railroad Av  
Rockford Ill  
Enterprise Co S Main Columiana Ohio  
Fay (J A) & Egan Co 2001 Eastern Av Cin-  
cinnati 2 Ohio  
**FORSBERG MFG CO 125 SEAVIEW AV  
BRIDGEPORT 1 CONN**  
Foster Mfg Co 287 Delaware Buffalo 17 NY  
**GREENLEE TOOL CO 2136 12TH ROCK-  
FORD ILL**  
Hanchett Mfg Co 906 N State Big Rapids  
Mich  
Handy Mfg Co 2440 W Lawrence Chicago  
25 Ill  
Hernance Machine Co Campbell & John Sts  
Williamsport Pa  
Heston & Anderson Div St Paul Engineering  
& Mfg Co 601 Kirkwood Av Fairfield Iowa  
Holmes (E B) Machinery Co Inc 59 Chicago  
Buffalo 4 NY  
Hutchinson Mfg Co Norristown Pa  
Jet Tool Co Box 247 Lemon Grove Cal  
Jones Superior Machine Co 1270 W North  
Av Chicago 22 Ill  
Kneisley Electric Co 2501-9 Lagrange Toledo  
3 Ohio  
McDonough Mfg Co 1500-1600 Galloway Eau  
Claire Wis  
**MASTER WOODWORKER MFG CO INC  
409 E FORT DETROIT 26 MICH**  
Mattison Machine Wks 545 Blackhawk Park  
Av Rockford Ill  
Melby Machinery Mfrs 2302 California Av  
Everett Wash  
Merritt-Monsanto Corp 120 S Niagara Lock-  
port NY  
Newman Machine Co Inc 507 Jackson  
Greensboro NC  
Oliver Machinery Co 1025 Clancy Av NE  
Grand Rapids 2 Mich  
Onsrud Machine Wks Inc 3910 W Palmer  
Chicago 47 Ill  
Palmer Machinery Co 2503 Potter Jackson-  
ville 1 Fla  
Parks Woodworking Machine Co 1524  
Knowlton Cincinnati Ohio  
**POOTATUCK CORP 59 SAMMIS PL  
STRATFORD CONN**  
**PORTER-CABLE MACHINE CO 1714 N  
SALINA SYRACUSE 8 NY**  
Powermatic Machine Co McMinnville Tenn  
Pringle & Brodie Machinery Co 566 W Polk  
Chicago 7 Ill  
Richardson (J S) Co Sheboygan Falls Wis  
**ROCKWELL MFG CO DELTA POWER  
TOOL DIV 400 N LEXINGTON AV PITTS-  
BURGH 8 PA**  
Sibley (Edw L) Mfg Co Inc 222 W Main  
Bennington Vt  
**SKIL CORP 5033 ELSTON AV CHICAGO  
30 ILL**  
**STANLEY WKS 111 ELM AV NEW BRIT-  
AIN CONN**  
Stetson-Ross Machine Co 3200 1st Av S  
Seattle 4 Wash  
Turner Mfg Co Wise St Statesville NC  
Vonnegut Moulder Corp Madison Av at Caven  
Indianapolis 2 Ind  
Walker-Turner Div Kearney & Trecker  
Corp 639 South Av Plainfield NJ  
Wallace (JD) & Co 136 S California Av  
Chicago 12 Ill  
Whitney (Baxter D) & Son Inc Winchendon  
Mass  
Wilson Saw Div Media Machine Wks Inc  
620 Park Av Media Pa  
Woods (S A) Machine Co Damrell & Alger  
Boston 27 Mass  
Yates-American Machine Co 701 Fourth Be-  
loit Wis

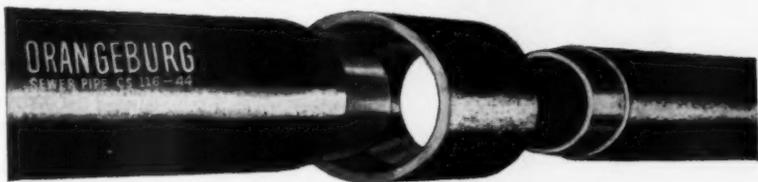
#### ► WRENCHES

Andree Wrench Co Elmhurst Ill  
Armstrong Bros Tool Co 5300 W Armstrong  
Chicago 30 Ill  
Barcelo Mfg Co 225 Louisiana Buffalo 4 NY  
Billings & Spencer Co 12 Laurel Hartford  
1 Conn  
Capewell Mfg Co 60 Governor Hartford 2  
Conn  
Crescent Tool Co 200 Harrison Jamestown  
NY  
Heller Bros Co Heller Dr Newcomerstown  
Ohio  
Ingersoll-Rand Inc 11 Broadway New York  
4 NY  
International Twist Drill Corp 618 Wyan-  
dotte Kansas City 5 Mo  
K D Mfg Co 526 Plum Lancaster Pa  
Owatonna Tool Co 341 Cedar Owatonna Minn  
Ox-Wall Tool Co 928 Broadway New York  
10 NY  
P & C Hand Forged Tool Co Portland 22  
Ore  
Parker (Charles) Co 50 Hanover Meriden  
Conn  
Peck Stow & Wilcox Co Southington Conn  
Penens Corp 3900 Wesley Ter Schiller Park  
Ill  
Proto Tool Co 2209 Santa Fe Los Angeles 54  
Cal  
Sandvik Saw & Tool Corp 47 Warren New  
York 7 NY  
Thor Power Tool Co 175 N State Aurora  
Ill  
Vlicheck Tool Co 3001 E 87th Cleveland 4  
Ohio  
Walworth Co 60 E 42nd New York 17 NY



# ORANGEBURG®

## THE ROOT-PROOF PIPE



### MORE AND MORE BUILDERS AND HOME BUYERS DEMAND ITS MANY, MONEY SAVING ADVANTAGES

When you specify or install Orangeburg Root-Proof Pipe and Fittings, your client gets a pipeline sure to deliver uninterrupted service.

Here are the reasons why the Orangeburg name is the mark of quality—quality you can always depend on.

**ORANGEBURG PIPE AND FITTINGS**—with self sealing Taperweld® Joints—keep roots from entering anywhere along the entire pipeline. Strong, tough, resilient Orangeburg resists corrosive ground waters, traffic tremors, earth deflections, temperature variations. Light weight 8-foot lengths and fewer joints speed assembly and cut costs of handling and laying.

**ORANGEBURG ROOT-PROOF PIPE** is America's most wanted pipe for . . . House-to-sewer (or septic tank) connections, Downspout and Storm Drain lines, other non-pressure outside uses.

Orangeburg Perforated Pipe is widely used for . . . septic tank disposal fields, foundation footing drains—also the draining of wet spots in lawns, drive-in theaters, athletic fields, parking lots, airports.

IT PAYS TO SPECIFY AND INSTALL  
THE LEADER—ORANGEBURG PIPE AND FITTINGS

Informative catalog 306 on request.  
Write Dept. AB44.

**ORANGEBURG MANUFACTURING CO., Inc., ORANGEBURG, N.Y.**  
West Coast Plant: Newark, California



1/2 Bend connected to Orangeburg Pipe making a 45° turn. The famous Orangeburg Taperweld Joints are leak-proof and root-proof.



1/2 Bend connected to this downspout forms a 90° turn. Orangeburg Fittings are quickly and easily connected—save installation costs.

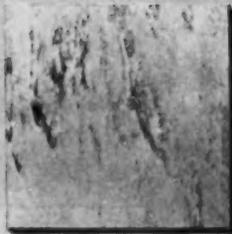


Wye Fitting showing a branch connection. Orangeburg Fittings have the same high quality as Orangeburg Pipe.

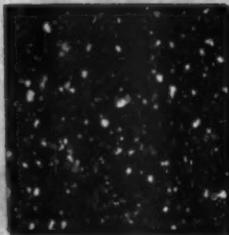


# FLOOR TILE . . .

## FOR EVERY FLOOR REQUIREMENT



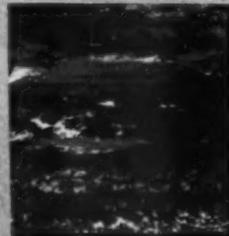
VINYLFLEX PLASTIC FLOOR TILE



POLY-KROME RESILIENT TERRAZZO TYPE TILE



PARQUETRY FLOOR TILE



ASPHALT TILE FLOORING



**DESCRIPTION**—An all purpose floor tile 9"x9" standard gauge (.065) or 1/8" in marbled colors that can be installed on any wood or concrete floor, ON, ABOVE or BELOW grade.

**CHARACTERISTICS**—VINYLFLEX is grease-proof, resistant to oils, acids, alkalis, gasoline and naphtha . . . is non-shrinking and non-curling . . . lasting color, beauty, resilience, and high slip resistance. Easy to trim and install without special tools.

**USES**—Any floor area—residential, institutional or commercial.

**COLORS**—Veined Ebony VM-75, Virgin Green VM-81, Sunrise Yellow VM-87, Bermuda Blue VM-80, Travertine VM-84, St. Michel Gray VM-85, Forest Green VM-86, Cordovan Brown VM-77, Fiesta Red VM-79, Aurisina Marble VM-83, Dover VM-90 and Coralite VM-89

**FEATURE STRIPS**—Available in white, green, yellow and red in 1", and 2" widths; 18" lengths.



**DESCRIPTION**—A 9"x9" floor tile in 1/8" and 3/16" resilient terrazzo-type tile with vivid multi-colored chips, set deep in each tile.

**CHARACTERISTICS**—POLY-KROME is durable and economical, easy to install, and keep clean. Its inherent toughness gives extremely high wear resistance to all types of indoor traffic ON, ABOVE or BELOW grade.

**USES**—Any floor area in a house, institution or business establishment that should have a gay, festive terrazzo-type appearance.

**COLORS**—Brown PK-52, Tan PK-56, Black PK-50, Yellow PK-55, Black PK-58, White PK-59, Green PK-54, Ivory PK-51, Gray PK-53, Red PK-60.



**DESCRIPTION**—A 9"x9" floor tile in 1/8" thickness. Simulates parquet natural oak hardwood beauty at low asphalt tile cost.

**CHARACTERISTICS**—HAKO PARQUETRY FLOOR TILE can be installed ON, ABOVE or BELOW grade at moderate cost, gives years

of service with a minimum of maintenance. Color and veining are completely through entire thickness of each tile.

**USES**—Hotel lobbies, executive offices, foyers, corridors, schools, hospitals—wherever hardwood floor beauty is desired, and low cost durability of asphalt tile is required.

**COLOR**—Veined light oak, walnut, maple, natural



**DESCRIPTION**—An inexpensive 9"x9" floor tile in 1/8" and 3/16" thickness, reinforced with asbestos fibres and styrene plastic, marbled color design.

**CHARACTERISTICS**—Long life, economy, low maintenance cost, scuff and indentation resistance. Meets all requirement of the Federal Specifications SS-T-306b. Install ON, ABOVE or BELOW grade.

**USES**—Schools, hospitals, houses, hotels, offices, stores, apartments, building projects and wherever indoor traffic is very heavy and low initial cost is important.

**COLORS**—Ebony AP-1, Maroon AP-3, Highlight BM-1°, Twilight BM-2, Sunset BM-4, High Noon BM-8°, Sunrise BM-9, Harvest BM-10, Oriental CM-20, Coral Beige CM-21°, Arctic CM-22°, Desert CM-23, Tropical CM-24°, Gray Dawn CM-25°, Spring Green CM-26, Cordova Green CM-264°, Morocco CM-28, Mecca CM-29°, Venetian Red CP-31, Coral Sea DM-30°, Pacific DM-31, Coronation DM-32°, Atlantic DM-33, Dover DM-34, Adriatic DM-35°, White Ruby DM-36°, Sunflower DM-37, Canary EM-46, Tea Rose EM-47, Sea Crest EM-48, French Green EM-49.

**FEATURE STRIPS**—Green, red, white, tan and black in 1" and 2" widths; and 18" lengths . . . also beveled edging (reducing strip).



**COVE BASE**—set-on type, height 4" and 6", length 24" in black and maroon. (Asphalt type) can be used with all HAKO floor tile.

**\*ALSO AVAILABLE IN GREASE-PROOF TILE**

Hachmeister, Inc.  
Pittsburgh 30, Pa.  
Dept. AB-4

Send full color floor tile catalogs and installation procedures.

Name .....

Address .....

City ..... State .....

SINCE 1903

# HACHMEISTER-INC.

PITTSBURGH 30, PA.



# 1954 American Builder Directory

## SECTION II BRAND NAMES

### Alphabetical List of Building Products and Equipment

**B**RAND NAMES used to identify principal building products and equipment of major manufacturers are listed in this section in alphabetical order with the names and addresses of manufacturers using the brand names. Trade and brand names popularly used in the building industry

are listed irrespective of their registration. Every effort has been made to make this an all-inclusive list. Builders, contractors, retail material dealers and architects will find it easy to use for checking names and addresses of brand-name product manufacturers.

#### A

- ABC Adams Engineering Co Box 936 Little River Branch Miami 38 Fla  
ABC Altorfer Bros Co 812 W Washington East Peoria 8 Ill  
A B DICK Dick (A B) Co 5700 W Touhy Av Chicago 31 Ill  
A-C-E Arro Expansion Bolt Co N Boone Av Marion Ohio  
A-AIR-COTE Spray-Flake Co 2727 W Irving Park Rd Chicago Ill  
ABBEON Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY  
ABESTO CHEMICAL TERMITE CONTROL Abesto Mfg Corp Michigan City Ind  
ABESTO FIBERATED Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABESTO-GLOW Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABESTO LUMICLAD Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABESTO QUICK SET PLASTIC Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABESTO SEALER Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABESTO SEMI-PLASTIC Abesto Mfg Corp 131 Wabash Michigan City Ind  
ABSOLUTE Woodfinishing Prods Co 34 Industrial New York 61 NY  
ACCRO-LITE Mayes Bros Tool Mfg Co Port Austin Mich  
ACE American Device Mfg Co Steepleville Ill  
ACE International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
ACKERMAN-JOHNSON Ackerman Johnson Co 625 W Jackson Chicago 6 Ill  
ACME Acme Appliance Mfg Co 35 S Raymond Av Pasadena 1 Cal  
ACME Acme Brick Co Box 425 Fort Worth Tex  
ACME Acme Rubber Mfg Co Box 1001 Trenton NJ  
ACME Acme Sash Balance Co 1626 Long Beach Av Los Angeles 21 Cal  
ACME Certain-tee Prods Corp 120 E Lancaster Av Ardmore Pa  
ACME Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn  
ACME QUALITY Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
ACOSTI-CELOTEX Celotex Corp 120 S LaSalle Chicago 3 Ill  
ACOSTILE Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
ACOSTI-RAIL Midwest Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio  
ACOSTONE United States Gypsum Co 300 W Adams Chicago 6 Ill  
ACRABORE Acrabore Inc Webster Mass  
ACRO Acro Tool & Die Wks 4554 Broadway Chicago 40 Ill  
ACT-EASY Spenkman Co 30th & Spruce Wilmington 99 Del  
ACTINIC Pennsylvania Wire Glass Co 1612 Market Philadelphia 3 Pa  
ACT-O-MATIC Sloan Valve Co 4300 W Lake Chicago 24 Ill  
ACTRITE Pioneer Mfg Co 3053-57 E 87th Cleveland 4 Ohio  
ACUSTI Luminous Ceilings Inc 2500 W North Av Chicago 47 Ill  
AD-AIRE Carter-Waters Corp 2440 Pennway Kansas City Mo  
AD-JUSTRITE Marino Lathing Supply Co 104-15 100th Ozone Park 16 NY  
ADAMANT United States Gypsum Co 300 W Adams Chicago 6 Ill  
ADAPTABEL Edwards Co Inc Post Rd Norwalk Conn  
ADAPT-A-FRAME Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
ADAPTAHORN Edwards Co Inc Post Rd Norwalk Conn  
ADAPT-A-WALL Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
ADD-A-LIFE Linsced Oil Prods Co 1107 S Fremont Av Alhambra Cal  
ADD-A-RACK Autoyre Co Oakville Conn  
ADD-A-UNITS Harrison Steel Cabinet Co 4718 W Fifth Av Chicago 44 Ill  
ADDA-STRIP Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
ADDRESSOGRAPH Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
ADJUSTA-SPRAY Spenkman Co 30th & Spruce Wilmington 99 Del  
ADMIRAL Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
ADMIRAL HOMES Admiral Homes Inc 149 Water West Newton Pa  
ADVENTURER Mansfield Sanitary Pottery Inc Perrysville Ohio  
AERO Boyle Midway Inc 22 E Fortieth New York 16 NY  
AEROFAN Pryne & Co Inc 140 N Towne Pomona Cal  
AEROLITH Sonenborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
AEROVENT Aerovent Fabricators Inc Ash & Benton Piqua Ohio  
AFCO A & F Tileboard Co Inc Lee & Roy Sts Box 4085 Alexandria La  
AGATITE Certain-tee Prods Corp 120 E Lancaster Av Ardmore Pa  
AGTAR Air Devices Inc 185 Madison Av New York 16 NY  
AGRICO American Agricultural Chemical Co 50 Church New York 7 NY  
AIRCRAFT Simplex Brooder Stove Co 220 Grandville Av SW Grand Rapids 2 Mich  
AIR-CRETE Sullivan Co 212 E Trigg Av Memphis Tenn  
AIRDOME ROOF LOUVER Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn  
AIREX Rex Windows Inc 487 Bonham Av Columbus 3 Ohio  
AIR-JET General Prods Co Inc Box 661 Fredericksburg Va  
AIR-LITE BRAND Graybeal (C R) & Sons Box 198 Roan Mountain Tenn  
AIRLOUVER Swartwout Co 18511 Euclid Av Cleveland 12 Ohio  
AIRMASTER Airmaster Corp 4317 Ravenswood Av Chicago 13 Ill  
AIR-O-BLIND Air-O-Blind Metal Awning Co 1940 Linwood Oklahoma City Okla  
AIRO-DOR Weisberg-Baer Co 405 26th Av Long Island City 2 NY  
AIRO-VENT Peerless Products 5415-19 St John Kansas City 23 Mo  
AIR PLUS Jaeger Machine Co 500 W Spring Columbus 16 Ohio  
AIR-SPEED Louisville Cement Co 501 S Second Louisville 2 Ky  
AIRSTRIP Mitchell Rubber Prods Inc 2130 San Fernando Rd Los Angeles 65 Cal  
AJAX Ajax Building Bracket Co 1551 Rydal Mount Rd Cleveland Heights 18 Ohio  
AJAX United Screw & Bolt Corp Cleveland Div 3590 W 58th St Cleveland 2 Ohio  
AJAX BRAND Cincinnati Sheet Metal & Roofing Co 230 E Front Cincinnati 2 Ohio  
AKBAR Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio  
AL SEAL Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn  
ALABAMA Alabama Metal Lath Co Inc 3235 Fayette Av Birmingham Ala  
ALABAX Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY  
ALADDIN READI-CUT HOUSES Aladdin Co 212 Davidson Bldg Bay City Mich  
ALASKA Washington Stove Works Box 919 Everett Wash  
ALCO-LITE Aluminum Ladder Co Box 101 Worthington Pa  
ALDURA New York Wire Cloth Co 63 Park New Canaan Conn  
ALEMITE VERSATAL Stewart Warner Corp 1826 Diversey Pkwy Chicago 14 Ill  
ALENCO JALOUSIES Albritton Engineering Corp 2501 Wronton Rd Houston 5 Tex  
ALFOL Ingersoll Prods Div Borg Warner Corp 310 S Michigan Av Chicago 4 Ill  
ALFOL Reflectal Corp 155 E 44th New York 17 NY  
ALGRID Richards (J Merrill) 25 Huntington Av Boston 16 Mass  
ALIGNA LOCK Sargent & Co 45 Water New Haven 9 Conn  
ALKATITE Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
ALKO Alkeco Mfg Co 424 N Lincoln Av Chicago 18 Ill  
ALL-AMERICAN Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY  
ALLEGHENY METAL Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa  
ALLEN Allen Steel Prods Inc 2941 E Ten Mile Rd Hazel Park Mich  
ALLIANCE WARE Alliance Ware Inc Box 809 Alliance Ohio  
ALLITH Allith Prouty Inc 819 N Bowman Av Danville Ill  
ALL-OVER-DOOR General Door Mfg Co 1786 N Second Milwaukee 12 Wis  
ALL-PURPOSE Autoyre Co Oakville Conn  
ALL-WEATHER CRETE Silbrico Corp 5901 W 66th Chicago 35 Ill  
ALL-WEATHER LOUVERS Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn  
ALLWOOD Oregon Lumber Co Baker Ore  
ALOXITE Carborundum Co Niagara Falls NY  
ALSYNITE Alsynite Co of America 4654 De Soto San Diego 9 Cal  
ALTEX Altex Engineering Co 751 Chestnut St Atlanta Ga  
ALUMA CRAFT Aluma Craft Boat Co Minneapolis Minn  
ALUMAROLL Orchard Bros Inc 63 Meadow Rd Rutherford NJ  
ALUMEX Mexico Refractories Co Love & Cole Mexico Mo  
ALUMI-COUSTIC Cupples Prods Corp 2650 S Hanley Rd St Louis 17 Mo  
ALUMIWALL Bestile Mfg Co State & Sultana Ontario Cal  
ALUNDUM Behr Manning Corp Div Norton Co 1554 Seifert Troy NY  
ALUNDUM Norton Co 1 New Bond Worcester 6 Mass  
ALWINTITE General Bronze Corp Stewart Av Garden City Li NY  
AMBROID Ambroid Co 305 Franklin Boston 10 Mass  
AMBROID Howe & French Inc 99 Broad Boston 10 Mass  
AMCO Algoma Mfg Co Box 252 Algoma Wis  
AMER-GLAS Herman Nelson 215 Central Av Louisville Ky  
AMERICAN American Metal Moulding Co 146 Cott Irvington NJ  
AMERICAN American Well Works 100 No Broadway Aurora Ill  
AMERICAN Columbia Geneva Steel-Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
AMERICAN Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
AMERICAN COLONIAL Johns Manville 22 E 40th New York 16 NY  
AMERICAN DEVICE American Device Mfg Co Steepleville Ill  
AMERICAN DUA-LAPS American Stained Shingle Co 381 W Spruce Columbus Ohio  
AMERICAN HOIST American Hoist & Derrick Co 63 S Robert St Paul 1 Minn  
AMERICAN SWISS Heller Bros Co Heller Dr Newcomerstown Ohio

AMERICAN TRADITIONAL Masury (John W) & Son Inc 1700 Bvard Baltimore 30 Md  
 AMERICAN TUBULAR Universal Mfg Corp W New Castle Zelenople Pa  
 AMERWOOD Southwood Corp Box 391 Fort Worth Tex  
 AMIDON FITTINGS Amidon Engineering Co 38369 Cleveland Rd Elyria Ohio  
 AMPLICALL Rauland-Borg Corp 3515 W Addison Chicago 18 Ill  
 AMTICO American Biltrite Rubber Co Foot of Perrine Av Trenton 2 NJ  
 AMWELD American Welding & Mfg Co 190 Dietz Rd Warren Ohio  
 ANCHOR Anchor Mfg Co 2932 W 26th Chicago 23 Ill  
 ANCHOR Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
 ANCHOR Lufkin Rule Co 1730 Hess Saginaw Mich  
 ANCHOR Merwin Mfg Co 19th & German Erie Pa  
 ANCHOR Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
 ANCHOR-EASY Patton (N E) Co 303 Van Doren Campaign Ill  
 ANCHOR-LOK Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
 ANDROCK Washburn Co 28 Union Worcester Mass  
 ANDRUS Hoe (R) & Co Inc 910 E 138th New York 54 NY  
 ANTCHER Rotenone Prods Co 110 Eaton Pl East Orange NJ  
 ANTHRA-FLO Coal-O-Matic Stoker Co Main St Trucksville Pa  
 ANTI-SWEAT Johns-Manville 22 E 40th New York 16 NY  
 ANTY-CHEK Rockford Paint Mfg Co 200 Sayre Rockford Ill  
 ANYSTREAM Speakman Co 30th & Spruce Wilmington 99 Del  
 APCO Aluminum Prods Co 1901 Franklin Av Houston Tex  
 APEX Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio  
 APEX Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
 APEX 100% WHEAT Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio  
 APMI Associated Plywood Mills Inc Box 672 Eugene Ore  
 APPLETON Appleton Electric Co 1701-59 Wellington Av Chicago 13 Ill  
 APPELLEY LITTLE GIANT Appley (J W) & Son Inc 831 Ninth N St Petersburg Fla  
 AQUAPEL American Cement Prods 15496 Livernois Detroit Mich  
 ARES-AUSTOR Ares Co 612 N Michigan Av Chicago 11 Ill  
 ARID-MIX Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va  
 ARIN Ares Co 612 N Michigan Av Chicago 11 Ill  
 ARISTO Flat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
 ARISTO-BRIC Ruberoid Co 500 Fifth Av New York 36 NY  
 ARISTO-SHAKE Ruberoid Co 500 Fifth Av New York 36 NY  
 ARISTO-STONE Ruberoid Co 500 Fifth Av New York 36 NY  
 ARISTOPAVE Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill  
 ARKANSAS TRAVELER Southwest Mfg Co Box 2339 Little Rock Ark  
 ARKETEX Arketex Ceramic Corp 6 N Walnut Brazil Ind  
 ARKETEX Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 ARLINGTON Gerber Plumbing Fixtures 232 N Clark Chicago 11 Ill  
 ARMASEAL Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
 ARMATOL Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo  
 ARM-GLAZE Armstrong Co 1001 E 103d Chicago 28 Ill  
 ARMOLAC Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
 ARMORBOND Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash  
 ARMORBOND Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash  
 ARMORON Anacortes Veneer Inc Box 71 35th & "V" Av Anacortes Wash  
 ARMORPLY United States Plywood Corp 55 W 44th New York 36 NY  
 ARMORPLY CHALKBOARD United States Plywood Corp 55 W 44th New York 36 NY  
 ARMSTRONG Armstrong Co 1001 E 103d Chicago 28 Ill  
 ARMSTRONG Armstrong Furnace Co 850 W 3rd Av Columbus 8 Ohio  
 ARMSTRONG-BRIDGEPORT Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
 ARMSTRONG PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind  
 ARRO-LOCK United States Gypsum Co 300 W Adams Chicago 6 Ill  
 ARROW Arrow Fastener Co 1 Junius Brooklyn 12 NY  
 ARROW Arrow-Hart & Hegeman Elec Co 103 Hawthorn Hartford 6 Conn  
 ARROW Arrow Tank Co Inc 16 Barnett Buffalo 15 NY  
 ARROW Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY  
 ARROWHEAD Webb Prods Co 216 South "G" San Bernardino Cal

ARROWSMITH Arrowsmith Tool & Die Co 9700 Bellanca Av Los Angeles 45 Cal  
 ARTCRAFT Huntington Industries Inc 2368 Prospect Memphis Tenn  
 ARTCRETE Arterete Prods Co Eagle & Lawrence Rds Oakmont Del Co Havertown Pa  
 ARTRIM Superior Industries Inc 3786 Oakwood Av Youngstown 9 Ohio  
 ASBESTILE Johns-Manville 22 E 40th New York 16 NY  
 ASBESTOCEL Johns-Manville 22 E 40th New York 16 NY  
 ASBESTO-SPONGE Johns-Manville 22 E 40th New York 16 NY  
 ASBESTOS SEAL Verlex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
 ASHTONE Bloomington Limestone Corp 900 S Walnut Bloomington Ind  
 ASHVEYOR Brady Conveyors Corp 20 W Jackson Blvd Chicago 4 Ill  
 ASPCO Anniston Soil Pipe Co Inc Box 191 Anniston Ala  
 ASPHALCRETE Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill  
 ATHOL Athol Machine & Foundry Co 82 South St Athol Mass  
 ATK Atkinson Mfg Co 502-14 S James Ludington Mich  
 ATKINS SILVER STEEL Atkins Saw Div Borg-Warner Corp 402 S Illinois Indianapolis 9 Ind  
 ATLANTIC Portland Stove Foundry Co 57 Kennebec Portland Me  
 ATLAS Atlas Fence Co 3650 Richmond Philadelphia 34 Pa  
 ATLAS Atlas Press Co 1973 N Pitcher Kalamazoo Mich  
 ATLAS Atlas Plywood Corp 1432 Statler Bldg Boston 16 Mass  
 ATLAS Irvington Form & Tank Corp 20 Vesey New York 7 NY  
 ATLAS Tru Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 ATLAS Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
 ATLAS POWER KIND Atlas Press Co 1973 N Pitcher Kalamazoo Mich  
 ATLAS WORKSHOP Atlas Press Co 1973 N Pitcher Kalamazoo Mich  
 AUBURN Auburn Foundry Co Inc Dallas & 11th Auburn Ind  
 AUDITONE United States Gypsum Co 300 W Adams Chicago 6 Ill  
 AUTO-BLOC Round (David & Son Inc) Box 883 Cleveland 22 Ohio  
 AUTOGLIDE Stoddard Mfg Co 617 Fourth SW Mason City Iowa  
 AUTOMATIC Automatic Washer Co Newton Iowa  
 AUTOSHIFT Hamilton Mfg Co 1316 18th Two Rivers Wis  
 AW Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa  
 AW ALGRIP Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa  
 AWNAIR Awair Corporation of American 61 Park Av Paterson NJ  
 AW SUPER-DIAMOND Wood (Alan) Steel Co Ivy Rock Rd Conshohocken Pa  
 AZPHLEX Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex  
 AZROCK Azrock Prods Div Uvalde Rock Asphalt Co Box 531 San Antonio 6 Tex  
 AZTEC Sullivan Co 212 E Trigg Av Memphis Tenn

**B**

B B Boston Brass Co Inc 137 Bacon Waltham 54 Mass  
 BB CONVEYOR New London Engineering Co 1700 Division New London Wis  
 B F GOODRICH Goodrich (B F) Flooring Div 36 Nichols Av Watertown 72 Mass  
 B/H SCHOOL Breneham Hartschorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
 B-K POWDER Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
 BLF Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
 BABCOCK Babcock (W W) Co Delaware Av Bath NY  
 BADGER Plumbers Woodwork Co Algoma Wis  
 BADGER LINE Advance Car Mover Co Inc 112 N Outagamie Appleton Wis  
 BAKELITE Bakelite Co Div of Union Carbide & Carbon Corp 30 E 42nd New York 17 NY  
 BAKER Baker Mfg Co 133 Enterprise Evansville Wis  
 BAKER SCAFFOLDS Baker-Roos Inc 62 W McCarty Indianapolis 6 Ind  
 BALANCED-FLOW Goulds Pumps Inc 75 Falls Seneca Falls NY  
 BALDWIN Baldwin Mfg Corp 1290 Central Av Hillside N J  
 BALL-RITE Cummins Portable Tools Div Cummins Chicago Corp 4740 Ravenswood Av Chicago 40 Ill  
 BALLYMORE Ballymore Co 139 Pennsylvania Av Wayne Pa  
 BALSAM-WOOL Wood Conversion Co 1st National Bank Bldg St Paul 1 Minn  
 BAMBINO DeJong Inc 34-23 36th Long Island City 1 NY  
 BAMBOOFOLD American Bamboo Corp 171-06 Jamaica Av Jamaica NY  
 BANNER Commercial Paste Co Buttes at Michigan Columbus 8 Ohio  
 BANOX W T Calgon Inc 323 Fourth Pittsburgh Pa

BANTAM Grant Pulley & Hdwe Corp 31-63 Whitestone Pkwy Flushing NY  
 BANTAM Schield Bantam Co 221 Park Waverly Iowa  
 BANTAM True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 BARBER Barber Gas Burner Co 3704 Superior Av Cleveland 14 Ohio  
 BARCALO-BUFFALO Barcalo Mfg Co 225 Louisiana Buffalo 4 NY  
 BARCALOY Barcalo Mfg Co 225 Louisiana Buffalo 4 NY  
 BARCOL Barber-Colman Co 120 Mill Rockford Ill  
 BAR-CORODE Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
 BARLATIC Barland Weatherstrip Material Co 1960 E 59th Cleveland 3 Ohio  
 BARNES PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind  
 BAR-N-SET Hollymade Hdwe Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal  
 BARON Root-Lowell Corp 445 N Lake Shore Dr Chicago 10 Ill  
 BARRETT-HOLT Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
 BASOLIT Nukem Prods Corp 111 Colgate Av Buffalo 20 NY  
 BAY CITY Bay City Shovels Inc 2611 Center Bay City Mich  
 BAYFLEX Bay State Abrasive Prods Co Union St Westboro Mass  
 BAYLAUN-BRAND Elliott Bay Mill Co 600 W Spokane Seattle 4 Wash  
 BAY STATE Devco & Reynolds Co Inc 787 First Av New York 17 NY  
 BEACON Root-Lowell Corp 445 N Lake Shore Dr Chicago 10 Ill  
 BEACON TRIPLE-SLIDE Allied Metals Inc 14 Hamilton New London Conn  
 BEADEX CORNER BEND Beadex Sales Inc 4615 Eighth Av NW Seattle 7 Wash  
 BEADEX CORNER-RITE Beadex Sales Inc 4615 Eighth Av NW Seattle 7 Wash  
 BEAM-HUGGER Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
 BEAUTEX Beautex Plaster Mfg Co 13th & Buttonwood Lebanon Pa  
 BEAUTI-DOR Shower Enclosures Inc 1227 W Devon Chicago 40 Ill  
 BEAUTIFLOR Johnson (S C) & Son Inc 1525 Howe Racine Wis  
 BEAUTY BARROW Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
 BEAUTYCRAFT Beautycraft Kitchens Div Miller Metal Prods Inc 2215 Russell Baltimore 30 Md  
 BEAUTYDRYER Dearborn Stove Co 1700 W Commerce Dallas Tex  
 BEAUTY KOTE Kleen Kote Co 601 W 80th Chicago 20 Ill  
 BEAUTY QUEEN Toledo Desk & Fixture Corp 1020 Ford Rd Maume Ohio  
 BEAUTYRANGE Dearborn Stove Co 1700 W Commerce Dallas Tex  
 BEAUTY-TONE Vita-Var Corp 10 Commerce Ct Newark NJ  
 BEAUTY WALL SHAKES Douglas Fir Wholesalers Inc Marysville Wash  
 BEAVER Mansfield Sanitary Pottery Inc Perrysville Ohio  
 BEAVER Western Reserve Mfg Co 3710 E 93rd Cleveland 5 Ohio  
 BEE GEE Brown-Groves Co 191 E Miller Akron Ohio  
 BEHR-CAT Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY  
 BEHR-MANNING Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY  
 BELDEN Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
 BELL PRIME-MOVER Prime-Mover Co Sampson St Muscatine Iowa  
 BELMAR Hough Shade Corp 1203 S Jackson Janesville Wis  
 BE MA CO Beaver Mfg Co 800 S Isis Av Ingleswood 1 Cal  
 BENDIX Crosley Div Avco Mfg Corp 1329 Arlington Cincinnati 25 Ohio  
 BENDIX-FRIEZ Abbeon Supply Co 179-15 Jamaica Av Jamaica 32 NY  
 BENEFIRE Bennett-Ireland Inc 23 State Norwich NY  
 BENEFORM Bennett-Ireland Inc 23 State Norwich NY  
 BEN FRANKLIN United States Gypsum Co 300 W Adams Chicago 6 Ill  
 BENGAL Silver Lake Co 60 Batterymarch Boston 10 Mass  
 BENTON FREEZER Bent-Hur Mfg Co 634 E Keefe Av Milwaukee 12 Wis  
 BENNETT BILT Bennett Mfg Co Railroad St Alden NY  
 BERA SANDSTONE Cleveland Quarries Co Amherst Ohio  
 BERGER Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
 BERKELEY FLEX-SEAL Allied Metals Inc 14 Hamilton New London Conn  
 BERMICO Brown Co 150 Causeway Boston 14 Mass  
 BESSAM Bessam Engineering Co 2528 Overlook Rd Cleveland 8 Ohio  
 BEST-VENT Per-Fit Prods Corp 1200 E 52d Indianapolis 5 Ind  
 BESTILE Beistle Mfg Co State & Sultana Ontario Cal  
 BESTWALL Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
 BETSY ROSS Carey-McFall Co 2156 E Dauphin Philadelphia 25 Pa

BEVADOR Jewett Refrigerator Co Inc 2  
Letchworth Buffalo 13 NY

BI-FLO Aerovent Fan Co Inc Ash & Beacon  
Piqua Ohio

BIANCO KITCHEN HOSTESS NOOKS Bina-  
ceno Mfg Co 2736 Victor St Louis 4 Mo

BIDDLE'S ELASTIC Biddle Co 698-24 S  
Main St Louis 2 Mo

BIG DIPPER Gerber Plumbing Fixtures 232  
N Clark Chicago Ill

BIGMESH Inland Steel Prods Co Box 393  
Milwaukee 1 Wis

BIG TIMBER BRAND Elliott Bay Mill Co  
600 W Spokane Seattle 4 Wash

BILCO Bileco Co Box 1203 New Haven 5 Conn

BILDRITE Insulate Div Minn & Ontario  
Paper Co 500 Baker Arcade Bldg Minne-  
apolis 2 Minn

BILT-RITE Clifton Mfg Co 323 Pleasant E  
Waco Tex

BILTRITE Dome Clifton Mfg Co 323 Pleas-  
ant E Waco Tex

BILT-WELL CARR-DOR Carr Adams & Col-  
lier Co 11th & Jackson Dubuque Iowa

BILT-WELL CLOS-TITE Carr Adams &  
Collier Co 11th & Jackson Dubuque Iowa

BILT-WELL NU-STYLE Carr Adams &  
Collier Co 11th & Jackson Dubuque Iowa

BILT-WELL SUPERIOR Carr Adams &  
Collier Co 11th & Jackson Dubuque Iowa

BINANBATCH Winslow Government Stand-  
ard Scale Wks Inc 25th & Haythorne Av  
Terre Haute Ind

BIN-BATCHER Construction Machinery Cos  
420 Vinton Waterloo Iowa

BIN-VEYOR Bosworth Mfg Co Mills Rd  
Iron Ohio

BIRCHNA Wisconsin Door Co 10101 Lyndon  
Av Detroit 21 Mich

BITUSEAL Cheesman Elliot Co Inc 645 Kent  
Av Brooklyn 11 NY

BLACK ARROW Black Mfg Co 201 Second  
Harrison NJ

BLACK BEAR Gardner Wire Co 1325 S  
Cicero Av Chicago 50 Ill

BLACK CAT Black Cat Corp W Laurel Av  
Hattiesburg Miss

BLACK DIAMOND Barrett Div Allied Chemi-  
& Dye Corp 40 Rector New York 6  
NY

BLACK FLAG Boyle-Midway Inc 22 E 40th  
New York 16 NY

BLACKHAWK DUAL-ACTION DOZER Arps  
Corp New Holstein Wis

BLACKHAWK TRENCH HOG Arps Corp  
New Holstein Wis

BLACKSHIELD Barrett Div Allied Chemi-  
cal & Dye Corp 40 Rector New York 6 NY

BLACK WHALE Astrup Co 2937 W 25th  
Cleveland 13 Ohio

BLACK & DECKER Black & Decker Mfg  
Co 60th E Pennsylvania Av Towson 4 Mich

BLACK & SILVER Hyde Mfg Co Eastford  
& Clemence Southbridge Mass

BLASTFIRE Houston Blow Pipe & Sheet  
Metal Wks Houston 1 Tex

BLAZECRETE Johns-Manville 22 E 40th  
New York 16 NY

BLEND-AIR Coleman Co Inc 250 N St  
Francis Wichita 1 Kan

BLENDETIX United States Gypsum Co 300 W  
Adams Chicago 6 Ill

BLINDFOLD De Jong Inc 34-23 36th Long  
Island City 1 NY

BLOCKEDGE Certain-teed Prods Corp 120 E  
Lancaster Av Ardmore Pa

BLO-FAN Pryne & Co Inc 140 N Towne  
Pomona Cal

BLOK-MESH Carter-Waters Corp 2440  
Pennway Kansas City Mo

BLOK-SEAL Carter-Waters Corp 2440  
Pennway Kansas City Mo

BLOOD BANK REFRIGERATOR Jewett Refri-  
gerator Co Inc 2 Letchworth Buffalo  
13 NY

BLU-BLAZE Tesco Inc 110 S Norfolk Tulsa  
Okla

BLUE BOY Miracle Paint Rejuvenator Co  
500 Robert St Paul 1 Minn

BLUE CIRLCE Dunkirk Radiator Corp 85  
Middle Rd Dunkirk NY

BLUE DIAMOND Hyde Mfg Co Eastford &  
Clemence Southbridge Mass

BLUE RAPIDS Certain-teed Prods Corp 120  
E Lancaster Av Ardmore Pa

BLUE RIBBON Goshen Mfg Co 10th & Rey-  
nolds Goshen Ind

BLUE RIBBON Miner-Hillard Milling Co  
826 Second Natl Bank Wilkes Barre Pa

BLUE SPRUCE Shuford Mills Inc Drawer  
340 Hickory NC

BLUE TIP Simonds Saw & Steel Co 470  
Main Fitchburg Mass

BLUMEX Millers Falls Co Wells & Devon  
Greenfield Mass

BLU-MAL Millers Falls Co Wells & Devon  
Greenfield Mass

BOARDMASTER Universal Drafting Machi-  
ne Co 7960 Lorain Av Cleveland 2 Ohio

BOCADO Glen-Gery Shale Brick Corp Box  
182 Wyomissing Pa

BOICE-CRANE Boice-Crane Co 930 W Cen-  
tral Av Toledo 6 Ohio

BOLTA Bolta Prods Sales Inc 70 Garden  
Lawrence Mass

BOMMER SPRING HINGE Bommer Spring  
Hinge Co Landrum SC

BONANZA Wooster Brush Co Madison Av  
Wooster Ohio

BONDCRETE United States Gypsum Co 300  
W Adams Chicago 6 Ill

BONDERITE Parker Rust Proof Co 2177  
E Milwaukee Av Detroit 11 Mich

BONDEX Reardon Co 7501 Page Av St Louis  
14 Mo

BONDRITE Standard Paste & Glue Co Inc  
3620 W 38th Chicago 32 Ill

BONDSTONE Emco Cement Prods Shamokin  
Pa

BONTEX Columbus Coated Fabrics Corp 7th  
& Grant Av Columbus 16 Ohio

BONUS BUILT Schelm Bros Inc 201 Anna  
East Peoria 8 Ill

BORD-JAK Maco Corp 1345 Henry Hunting-  
ton Ind

BORD-PRI Maco Corp 1345 Henry Hunting-  
ton Ind

BOROLON Simonds Abrasive Co Tacony &  
Fraleigh Philadelphia 37 Pa

BOSTITCH Bostitch Inc 1101 Mechanic Wes-  
terly RI

BOSTROM Bostrom-Brady Mfg Co Stonewall  
& Bailey SW Atlanta Ga

BOT-TITE Pyramid Mouldings Inc 5353 W  
Armstrong Chicago 30 Ill

BRADLEY Bradley Lumber Co of Arkansas  
Box 390 Warren Ark

BRAINARD Brainard Steel Div-Sharon  
Steel Corp Grinwald St Warren Ohio

BRASCO Brasco Mfg Co 152d & Commercial  
Av Harvey Ill

BRASS BEAUTY Slaymaker Lock Co 115 S  
West End Av Lancaster Pa

BREEZEMASTER Acme Equipment Co 213 E  
Broadway Muskegoe Okla

BREEZEMASTER Angel Novelty Co 340  
Broad Fitchburg Mass

BREEZEMASTER Consolidated Venetian  
Blind Co Div Consolidated Gen Prods Inc  
2401 Nicholson Box 7425 Houston 8 Tex

BRENLIN LITEPROOF Breneman-Hart-  
shorn Inc 2045 Reading Rd Cincinnati 2  
Ohio

BRESSLER Kol-Master Corp 124 Walberg  
Oregon Ill

BRICK-N-SEAL Dewatex Mfg Co 424 W 42d  
New York 18 NY

BRICK-TEX Certain-teed Prods Corp 120 E  
Lancaster Av Ardmore Pa

BRIDJOINT United States Gypsum Co 300 W  
Adams Chicago 6 Ill

BRIGGS BEAUTYWARE Douglas (John) Co  
71st & B&O RR Cincinnati Ohio

BRISKULITE Gold Seal Asphalt Roofing Co  
Box 302 Chicago Heights Ill

BRIK-TOTER Mar-Rail Conveyor Co 560  
York Av Pawtucket RI

BRILLIANT FIRE Ohio Foundry & Mfg Co  
629 Slack Steubenville Ohio

BRISTOL'S Bristol Co Waterbury 20 Conn

BRITE-LITE Brainard Steel Div Sharon  
Steel Corp Grinwald St Warren Ohio

BRIXMENT Louisville Cement Co 501 S Sec-  
ond Louisville 2 Ky

BROADLITE Missisippi Glass Co 88 Angelica  
St Louis 7 Mo

BROADWAY Farley & Loetscher Mfg Co  
Dubuque Iowa

BROAN Broan Mfg Co Inc 1669 N Water  
Milwaukee 2 Wis

BROCKWAY Brockway Motor Co Inc 106  
Central Av Cortland NY

BROLOC Broderick & Bascom Rope Co 4203  
Union Blvd St Louis 15 Mo

BROMCO Bromwell Wire Goods Co 1306-7  
Enquirer Bldg Cincinnati 2 Ohio

BRONCO Woodward Lumber Co 1424 Vance  
Bldg Seattle 1 Wash

BROWN Brown Stove Wks Inc Cleveland  
Tenn

BROWN BEAR Gardner Wire Co 1325 S  
Cicero Av Chicago 50 Ill

BROWNSKIN Angier Corp Fountain St  
Framingham Mass

BROWN-X Pass & Seymour Inc 50 Boyd Av  
Syracuse 9 NY

BRUCE Twin City Hardwood Lumber Co 509  
N Cleveland Av St Paul 14 Minn

BRULE Brule Incinerator Corp 407 S Dear-  
born Chicago 5 Ill

BRULE Goder Incinerator Corp 407 S Dear-  
born Chicago 5 Ill

BRUSH Brush Nail Expansion Bolt Co  
Greenwich Conn

BRYANT Bryant Electric Co 1421 State  
Bridgeport 2 Conn

BRYANT Bryant Heater Div 17825 St Clair  
Av Cleveland 10 Ohio

BUCKEYE Hartwell Bros Hollywood Sta  
Memphis 8 Tenn

BUCKEYE Wood (Gar) Industries Inc Michi-  
gan Blvd Wayne Mich

BUCKEYE FLOOR PAPERS Sandpaper Inc  
83 E Water Rockland Mass

BUCYRUS-ERIE International Harvester Co  
189 N Michigan Av Chicago 1 Ill

BUDGIT Cohn (E) & Sons Inc 900 "L" SW  
Cedar Rapids Iowa

BUDGIT Shaw-Box Crane & Hoist Div Man-  
ning Maxwell & Moore Inc 414 Broadway  
Muskegon Mich

BUFFALO Acme Rubber Mfg Co Box 1001  
Trenton NJ

BUFFALO Buffalo Mfg Corp 150 Pine Gray-  
slake Ill

BUG-AWAY Westinghouse Electric Corp  
Lamp Div Bloomfield NJ

BUGMASTER Detjen Corp Electrocuting Fly  
Screen Div Skidmore Rd Freedom Plains  
Pleasant Valley NY

BUILDERS FRAMES Builders Mfg Co 1514  
Brown Marx Bldg Birmingham Ala

BUILT-IN Standard Building Prods Co 631  
McDonald Av Brooklyn 18 NY

BULKBINDER Gerrard (A J) & Co 1950  
Hawthorne Av Melrose Park Ill

BULLCLAM Drot Mfg Corp 3841 W Wis-  
consin Av Milwaukee 8 Wis

BULL DOG FLOOR CLIPS New Monarch  
Machine & Stamping Co 406 SW 9th Des  
Moines 9 Iowa

BURKAY Smith (A O) Corp Permaglas  
Heating Div Kankakee Ill

BURKS Decatur Pump Co 2750 Nelson Park  
Rd Decatur Ill

BURT Burt Mfg Co 44 E South Akron 11  
Ohio

BURTON STEEL-HEAD BAND SAWS Bur-  
ton Saw Co 91 Foster Worcester Mass

BUSHMAN Gensco Tools 1830 N Kostner Av  
Chicago 39 Ill

BUTTERFLY Cornell Iron Works Inc 36th  
Av & 13th Long Island City 6 NY

C

CCC Carbola Chemical Co 46 Harris Rd  
Natural Bridge NY

C-E Crane Electric Industries Eugene Ore  
CE CO Cheesman Elliott Co Inc 645 Kent Av  
Brooklyn 11 NY

C H & E C H & E Mfg Co 3849 N Palmer  
Milwaukee 12 Wis

CID Goulds Pumps Inc 75 Fall Seneca Falls  
NY

CM Chisholm-Moore Hoist Div Columbus  
McKinnon Chain Corp Fremont Av Tona-  
wanda NY

C M C Construction Machinery Cos 420 Vinton  
Waterloo Iowa

C W Chicago Paints Inc 4500 W 14th  
Chicago 23 Ill

CABLE HEAT Electromode Corp 45 Crouch  
Rochester 3 NY

CADET Fiat Metal Mfg Co 9301 Belmont Av  
Franklin Park Ill

CAHABA Miller & Co Inc Selma Ala

CALBAR Calbar Paint & Varnish Co 2612  
Manana Philadelphia 25 Pa

CALCINATOR Calculator Corp 28th &  
Water Bay City Mich

CALDWELL Caldwell Mfg Co 64 Commercial  
Rochester 14 NY

CALKA-MATIC Vital Prods Mfg Co 7500  
Quincy Av Cleveland 4 Ohio

CALMASTER Vital Prods Mfg Co 7500  
Quincy Av Cleveland 4 Ohio

CALK-O-TUBE Seal Rite Caulking Co 6335  
Lyndon Detroit Mich

CALROD General Electric Co Apparatus  
Sales Div 1 River Rd Schenectady 5 NY

CAMARGO Breneman Hartshorn Inc 2045  
Reading Rd Cincinnati 2 Ohio

CAMP Camp Chemical Co Inc 170 Second Av  
Brooklyn 15 NY

CAMPCRETE Camp Co Inc 6958 S State  
Chicago 21 Ill

CAMP-O-LITE Camp Co Inc 6958 S State  
Chicago 21 Ill

CAN-DO Western Reserve Mfg Co 3710 E  
93rd Cleveland 5 Ohio

CANNONBALL Starline Inc 300 W Front  
Harvard Ill

CANVAS KID Canvas Prods Co 2115 Locust  
St Louis 3 Mo

CAN-VA-TEX Johnson (J W) Co 3100 W  
Randolph Bellwood Ill

CAPE COD Lockwood Hdwe Co Fitchburg  
Mass

CAPEWELL Capewell Mfg Co 60-70 Gov-  
ernor Hartford 2 Conn

CAPITOL Acme Rubber Mfg Co Box 1001  
Trenton NJ

CAPITOL EASY LIFT Capitol Prods 118 S  
Third Springfield Ill

CAPITOL LINE Capitol Kitchens 615 E 1st  
Av Roselle NJ

CAPITOL TAPER SEAL Capitol Prods 18  
S Third Springfield Ill

CARBI-TWIST U S Expansion Bolt Co State  
& PRR York Pa

CARBOLA Carbola Chemical Co 46 Harris  
Rd Natural Bridge NY

CARBOLINEUM AMERICA C-A Wood Pres-  
erver Co 6625 Delmar Blvd St Louis 5 Mo

CARBOLOY CEMENTED CARBIDES Carbo-  
loy Dept General Electric Co 11177 E  
Eight-Mile Rd Box 237 Detroit 32 Mich

CARBORA Cortland Grinding Wheels Corp  
1 Huntington Chester Mass

CARBORUNDUM Carborundum Co Niagara  
Falls NY

CARBOSOTA Barrett Div Allied Chemical  
& Dye Corp 40 Rector New York 6 NY

CARDINAL Astrup Co 2937 W 25th Clevel-  
and 13 Ohio

CARLON Carlon Prods Corp 10225 Meech  
Av Cleveland 5 Ohio

CARPENTERS' UNION Eagle Pencil Co 703  
E 13th New York 9 NY

CARRARA Pittsburgh Plate Glass Co 632  
Fort Duquesne Blvd Pittsburgh 22 Pa

CASCHE-ALL Fiat Metal Mfg Co 9301 Belmont  
Av Franklin Park Ill

CASEKING Vulcan Metal Prods 2801 6th Av  
S Birmingham Ala

CASINO Ekstrom Carlson & Co 1400 Rail-  
road Av Rockford Ill

CAT Caterpillar Tractor Co 600 W Wash-  
ington East Peoria Ill

CASCHE-ALL Cyclone Fence Dept American  
Steel & Wire Div U S Steel Corp Box  
260 Waukegan Ill

CATSPAW Drewy (C) & Co Inc Maple St Kingston 7 Mass  
**CAULK-O-SEAL** Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa  
**CAULKTEX** Ever-Plastics Corp 420 Lexington Av New York 17 NY  
**CAUXEAL X-Pando** Corp 43-15 36th Long Island City 1 NY  
**CECO** Ceco Steel Prods Corp 5601 W 26th Chicago 50 Ill  
**CEDAR-LUX** Cedar-Lux Prods Co Inc 3244 Holmes Kansas City Mo  
**CEDARWALS** Caplano Timber Co Ltd Box 608 Vancouver BC Canada  
**CEE BREEZE** Cee Breeze Aluminum Awning Co 628 Huron Toledo 4 Ohio  
**CEETECO** Crescent Tool Co 200 Harrison Jamestown NY  
**CEIL HEAT** Homes Inc 5212 Homberg Dr Knoxville Tenn  
**CEIL-N-VENTOR** Universal Blower Co 1090 S Adams Av Birmingham Mich  
**CELINA** Celina Mfg Co Celina Ohio  
**CELLUMENT** Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn  
**CELO-ROK** Celotex Corp 120 S LaSalle Chicago 3 Ill  
**CELOTEX** Celotex Corp 120 S LaSalle Chicago 3 Ill  
**CEMCOAT** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**CEMENTICO** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**CEMSTO** Celotex Corp 120 S LaSalle Chicago 3 Ill  
**CEMENT PAINT** Cemix Co 433 Maple Av Downers Grove Ill  
**CEMIX HEVI-KOTE** Cemix Co 433 Maple Av Downers Grove Ill  
**CENTRAVAC** Trane Co 3rd & Cameron LaCrosse Wis  
**CENTRI-THRIFT** Myers (F E) & Bro Co 424-24 Orange Ashland Ohio  
**CENTURY** Century Electric Co 1806 Pine St Louis 3 Mo  
**CENTURY** Century Engineering Corp 401 Third SE Cedar Rapids Iowa  
**CENTURY** Heilig Bros Co Inc 24 W North York Pa  
**CENTURY** Kearsbey & Mattison Co Butler Av Ambler Pa  
**CENTURY** National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
**CENTURY TORCH O MATIC** Velocity Power Tool Co 201 N Braddock Av Pittsburgh 8 Pa  
**CERTACOUSTIC** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**CERTIFIED** Schelm Bros Inc 201 Anna East Peoria 8 Ill  
**CERTILE** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**CERTUS** Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn  
**CHALLENGER** Boice-Crane Co 930 W Central Av Toledo 6 Ohio  
**CHALLENGER** Coffing Hoist Co 800 Walters Danville Ill  
**CHALLENGER** Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
**CHALLENGER** Hollymade Hardware Mfg Co 4865-4903 Exposition Blvd Los Angeles 16 Cal  
**CHALLENGER** Kol-Master Corp 124 Walberg Oregon Ill  
**CHALLENGER** Penens Corp 3900 Wesley Ter Schiller Park Ill  
**CHAMBERLIN** Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
**CHAMCO** Chamberlin Co of America 1254 LaBrosse Detroit 26 Mich  
**CHAMP** Master Lock Co 2600 N 32nd Milwaukee 45 Wis  
**CHAMPION** Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio  
**CHAMPION** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**CHAMPION** Vento Steel Prods Co Inc 250 Colorado Buffalo 15 NY  
**CHANNELOCK** Champion DeArment Tool Co 1306-16 Main Meadville 1 Pa  
**CHANNELOCK** International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
**CHAN-L-CROS** Junior-Pro Prods Co 3206 Morganford Rd St Louis 16 Mo  
**CHAR-BQ** Majestic Co Hall St Huntington Ind  
**CHECK-CORD & JUNIOR** Lanebro Mfg Co 110 Main Poughkeepsie NY  
**CHECKERBOARD** United States Plywood Corp 55 W 44th New York 36 NY  
**CHECKPOST** Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo  
**CHELDUOGEAR** Chelsea Elevator Co 549 W 52d New York 19 NY  
**CHELGEAR** Chelsea Elevator Co 549 W 52d New York 19 NY  
**CHELNOGEAR** Chelsea Elevator Co 549 W 52d New York 19 NY  
**CHEM-O-GLAS** Chemold Co 2000 Colorado Blvd Santa Monica Cal  
**CHENEY** Cheney (Henry) Hammer Corp 73 W Mill Little Falls NY  
**CHENEY** Cheney Metal Prods Co 623 Prospect Trenton 5 NJ  
**CHEROKEE** Mosaic Tile Co 1049 Pershing Av Zanesville O  
**CHESAPEAKE-HUE** Weaver (C E) Stone Co Box 96 Reisterstown Md  
**CHESLER** Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY

**CHEVRONS** Packard (E B) Co Inc 139 Cedar New York 6 NY  
**CHICAGO** Chicago Expansion Bolt Co 1338 W Concord Pl Chicago 22 Ill  
**CHICAGO** Eddy Stoker Corp 4713-19 W North Av Chicago Ill  
**CHICOPEE** Lumite Div Chicopee Mills Inc 47 Worth New York 13 NY  
**CHIEF** Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
**CHIEF** Northwest Metal Prods Inc 55 Spokane Seattle 4 Wash  
**CHILD CRAFT** Hamilton Mfg Co 1316 18th Two Rivers Wis  
**CHILDERS** Childers Mfg Co 3620 W 11th Houston 8 Tex  
**CHILLATORS** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn  
**CHORE BOY** Incinerator Prods Co 667 S Post Av Detroit 17 Mich  
**CHROME CLAD** Lufkin Rule Co 1730 Hess Saginaw Mich  
**CHROME-X** Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY  
**CHURCH COREX** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH DELUXE** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH EXCELLO** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH GOTHIC** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH MODERNUS** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH MOLTEX** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH PEABROKE** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH REGAL** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CHURCH ROYALTON** Church (C F) Mfg Co Box 471 Holyoke Mass  
**CINCH** Biddle Co 608-24 S Main St Louis 2 Mo  
**CINCH** National Lead Co 111 Broadway New York 6 NY  
**CINDER BLOCK** Paint Kleen Kote Co 601 W 80th Chicago 20 Ill  
**CIPCO** Cipco Corn 22d & Cole St Louis 8 Mo  
**CIRCLE B** Buffalo Bolt Co Div Buffalo Eclipse Corp 101 East Av North Tonawanda NY  
**CIRCULATOR** Majestic Co Hall St Huntington Ind  
**CIRCU-RAY** Temco Inc 4104 Park Av Nashville 9 Tenn  
**CIRKLAIR** Folsom Co Inc 3104 Oak Lane Dallas 10 Tex  
**CLARKE** Clarke Sanding Machine Co 30 E Clay Av Muskegon Mich  
**CLARY** Clary Multiplier Corp 408 Junipero San Gabriel Cal  
**CLATEX** Streater Brick Co Div Hydraulic Press Brick Co 321 E Main Streater Ill  
**CLAUSS** Henkel-Clauss Co 319 S Arch Fremont Ohio  
**CLEAR-COAT** American Sta-Dri Co 4019 38th Brentwood Md  
**CLEAROX** Abesto Mfg Corp 131 Wabash Michigan City Ind  
**CLEEN** Standard Industrial Prods Inc 1500 Park Evansville 4 Ind  
**CLEVELAND** Cleveland Steel Specialty Co Inc 3771 E 91st Cleveland 5 Ohio  
**CLEVELAND** Cleveland Trencher Co 20100 St Clair Av Cleveland 17 Ohio  
**CLIFTON** Clifton Mfg Co 323 Pleasant E Waco Tex  
**CLIMATE CHANGER** Trane Co 3rd & Cameron LaCrosse Wis  
**CLIMATE MASTER** Hess Co 1855 S 54th Av Chicago 50 Ill  
**CLIMAX** Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio  
**CLINTON** Clinton Metallic Paint Co Arthur St Clinton NY  
**CLIP-ON** Autoyre Co Oakville Conn  
**CLIPPER** Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
**CLIPPER** Clipper Mfg Co 2800 Warwick Kansas City Mo  
**CLIPPER** Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
**CLIPPER** Trade-Wind Motorfans Inc 5725 S Main Los Angeles 37 Cal  
**CLIPPER ABRASIVES** Sandpaper Inc 83 E Water Rockland Mass  
**CLIPPER** CCU Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
**CLIPPERETTE** Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
**CLIPPER LOW-BOY** Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
**CLOVER** Clover Mfg Co 333 Main Norwalk Conn  
**CLOVEX O M** Scott & Sons Co Marysville Ohio  
**CLUTCH** United Screw & Bolt Corp Cleveland Div 3590 W 58th Cleveland 2 Ohio  
**CLYDE** Clyde Cutlery Co Clyde Ohio  
**COAST** Allitite Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal  
**COAST PAK-FELT** Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal  
**COLD-BAR** Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa  
**COLD GENERATOR** Trane Co 3rd & Cameron LaCrosse Wis

**COLE AUTOMATIC** Cole Mfg Co 705 Raymond Austin Tex  
**COLE DELUXE** Cole Mfg Co 705 Raymond Austin Tex  
**COLE HOT BLAST** Cole Hot Blast Mfg Co 3817 S Racine Av Chicago 9 Ill  
**COLLMER PATTERN DRESSERS** Collmer Bros 420 S St Joseph South Bend 1 Ind  
**COLLOPAKES** Cabot (Samuel) Inc 141 Milk Boston 9 Mass  
**COLONIAL** Colonial Bronze Co Winsted Rd Torrington Conn  
**COLONIAL** Reflecto Letters Inc 411 E 101st New York 29 NY  
**COLOR-CRAFT** Color-Craft Prods Inc 5035 Bellevue Detroit 11 Mich  
**COLOR-GLAZE** Colorcrete Industries Inc 24th & Ottawa Holland 1 Mich  
**COLOR-GRAINED** Ruberoid Co 500 5th Av New York 36 NY  
**COLOR-TEX** Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
**COLORADO PINK STONE** Jacobson-Evans Stone Co Inc 3232 E 31st Tulsa Okla  
**COLORBESTOS** Johns-Manville 22 E 40th New York 16 NY  
**CONCRETE** Colorcrete Industries Inc 24th & Ottawa Holland 1 Mich  
**COLORSOL** Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
**COLOSULATE** Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash  
**COLOTRYM** Colotyle Tyle-Bord Inc 975 John Seattle 9 Wash  
**COLUMBIA** Columbia Mfg Co 845 S 9th Louisville 3 Ky  
**COLUMBIA** Columbia-Southern Chemical Corp 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**COLUMBIA** Eagle Rule Mfg Corp 505 Hunts Point Av New York 59 NY  
**COLUMBIA BRICK** Columbia Brick Wks 1320 SE Water Av Portland 14 Ore  
**COM 500 SUPER** Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill  
**COM SCRUBABLE** Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill  
**COMASCO** Consolidated Machinery & Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal  
**COMBUSTIONEER** Combustioneer Div Steel Prods Engineering Co 1205 W Columbia Springfield Ohio  
**COMET** Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY  
**COMET** Consolidated Machinery 7 Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal  
**COMET** Reliable Paste & Chemical Co 3560 Shiloh Av Chicago 9 Ill  
**COMFORTROL** Weather Seal Inc 24 Huston Barborton Ohio  
**COMMANDER** Commander Door Inc Maple Av & B&O RR Holmes Pa  
**COMMANDER** Speakman Co 30th & Spruce Wilmington 99 Del  
**COMMODORE** Flat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
**COMPOUND M** Camp Co Inc 6958 S State Chicago 21 Ill  
**CONCORD** Concord Woodworking Co Inc 10 Beharier West Concord Mass  
**CONCORD** Reflecto Letters Inc 411 E 101st New York 29 NY  
**CONDOR** Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willett Passaic NJ  
**CONDUIT OF COLUMBUS** Conduit Pipe Prods Co 157 W Fulton St Columbus Ohio  
**CONDUIT WEATHERMASTER SYSTEM** Carrier Corp 300 S Geddes St Syracuse NY  
**CONGWALL** Congoleum-Nairn Inc 195 Belgrave Dr Kearny NJ  
**CONGRID** Richards (J Merrill) 25 Huntington Av Boston 16 Mass  
**CONNECTICUT BURGLAR ALARM** Connecticut Telephone & Elec Div 70 Britannia Meriden Conn  
**CONNER TYPE** Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich  
**CONOLITE** Continental Can Co Conolite Dept 16th & Locust Wilmington Del  
**CONRAD** Glen-Gery Shale Brick Corp Box 182 Wyomissing Pa  
**CONSVORO** Cabot (Samuel) Inc 141 Milk Boston Mass  
**CON-SOL** Consolidated Industries Inc Mixville Rd West Cheshire Conn  
**CONSWOWELD** Consolidated Water Power & Paper Co Ahdawagam Div Wisconsin Rapids Wis  
**CONSUMERS** Consumers Glue Co 1515 Hadley St Louis 6 Mo  
**CONTEMPORARY** Gerber Plumbing Fixtures 232 N Clark Chicago Ill  
**CONTINENTAL** Wabash Screen Door Co 310 S Michiran Av Chicago 4 Ill  
**CONTINENTAL** Robeson Cutlery Co Inc 3646 Case Ferry NY  
**CONTRAT** Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo  
**CONVASEAL** Meadows (W R) Inc 2-18 Kimball Elgin Ill  
**CON-VAY-IT** CONCRETE SPECIAL American Conveyor Co 1115 W Adams Chicago 7 Ill  
**CONVENIENT LIVING** Home Planners Inc 16310 Grand River Detroit 27 Mich

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**CONVERTIBLE** 77 Delta Heating Corp 1 Cole Trenton 8 NJ  
**CONVEYALL** Bosworth Mfg Co Mills Rd Avon Ohio  
**CON-WALL** Roedter Prods 343 Bryant Av Cincinnati 20 Ohio  
**COOL-O-MATIC** Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo  
**COP-O-TOP** Chase Brass & Copper Co Inc 236 Grand Waterbury 20 Conn  
**COPPER-BOUND** Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill  
**COPPERSKIN** Angier Corp Fountain St Framingham Mass  
**COP-R-NAP** Osmose Wood Preserving Co of America Inc 980 Ellicott Buffalo NY  
**COP-R-TOX** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**CORAIRE** Coraire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
**CORAL** Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
**CORALUX** Schundler (F E) & Co Inc 504 Railroad Joliet Ill  
**CORDOVA LIMESTONE** Texas Quarries Inc Box 91 Austin Tex  
**CORFLOR** Permacrete Prods Corp 1839 S Wall Columbus 7 Ohio  
**CORKTITE** Meadows (W R) Inc 2-18 Kimball Elgin Ill  
**CORNER GUARD** Drywall Trim Inc 2408 N Farwell Av Milwaukee 11 Wis  
**CORNICE VENTILATOR** Damp-Vent Co 210 17th Box 203 Bettendorf Iowa  
**COR-O-LAST** Concor Co 4550 Main Kansas City Mo  
**CORONATOR** Coraire Heater Corp 1422 Euclid Av Cleveland 15 Ohio  
**COROX** Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa  
**CORRULUX** Corrollux Div Libbey Owens Ford Glass Co 410 Holmes Rd Box 20026 Houston 25 Tex  
**CORTEX** Cortland Grinding Wheels Corp 1 Huntington Chester Mass  
**CORTLAND BRAND** Wickwire Bros Inc 189 Main Cortland NY  
**COSALCO** Colonial Sales Corp 928 Broadway New York 10 NY  
**COSMO-COLOR** Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
**COSMO-SPAR** Masury (John W) & Son Inc 1700 Bayard Baltimore 30 Md  
**COTSWOLD** Hope's Windows Inc 84 Hopkins Av Jamestown NY  
**COUNTERFLO** Dravo Corp Fifth & Liberty Av Pittsburgh 22 Pa  
**COVENTRY** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**COVER-DRI** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
**CRADLE CALKER** Vital Prods Mfg Co 7500 Quincy Av Cleveland 4 Ohio  
**CRANEMOBILE** Bay City Shovels Inc 2611 Center Bay City Mich  
**CRANE WAGON** Bay City Shovels Inc 2611 Center Bay City Mich  
**CREO-DIPT STAINS** Kaptur (Joseph J) & Co 121st & 90th Palos Park Ill  
**CRESCENT** Crescent Tool Co 200 Harrison Jamestown NY  
**CRESCENT** Enterprise Co S Main Columbiana Ohio  
**CRES-LITE** Crescent Bronze Powder Co 116-122 W Illinois Chicago 10 Ill  
**CRESTOLO** Crescent Tool Co 200 Harrison Jamestown NY  
**CRETITE** Cabot Paint & Varnish Co 2612 N Martha Philadelphia 25 Pa  
**CRIS CROSS STEEL BRIDGING** Rudeen (N H) Co 1645 Hennepin Av Minneapolis 3 Minn  
**CROFOOT** Crofoot Mfg Co 217 Evergreen Mount Prospect Ill  
**CROSBY BLOCKS** American Hoist & Derrick Co 63 S Robert St Paul Minn  
**CROSBY CLIPS** American Hoist & Derrick Co 63 S Robert St Paul Minn  
**CROSS-CIRCULATION** Moore Dry Kiln Co 1220 W State Jacksonville Fla  
**CROSSLY ALUMINUM AWNING WINDOW** Crossly Window Corp 3550 NW 71st Miami Fla  
**CROSSLY SURESEAL JALOUSIE** Crossly Window Corp 3550 NW 71st Miami Fla  
**CROWN** Crown Stove Wks 4627-35 W 12th Pl Chicago 50 Ill  
**CROWN** Marblehead Lime Co 300 W Washington Chicago 6 Ill  
**CROWN** Ohio Can & Crown Co 16th & Hersh Massillon Ohio  
**CROWN** Sikan Valve Co 4300 W Lake Chicago 24 Ill  
**CROWN BRAND** Genaco Tools 1830 N Kostner Av Chicago 39 Ill  
**CROWN PATTERN WHEELS** Collier Bros 420 S St Joseph South Bend 1 Ind  
**CRYSTAL** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
**CRYSTAL TIPS** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn  
**CRYSTOLON** Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY  
**CRYSTOLON** Norton Co 1 New Bond Worcester 6 Mass  
**CUPRINOL** Cuprinol Div Darworth Inc 56 Maple Simsbury Conn  
**CUPRISOTE** Protexol Corp 162 -Market Kenilworth NJ  
**CUREX** Pavinoleum Inc 1239 St Nicholas Av New York 32 NY

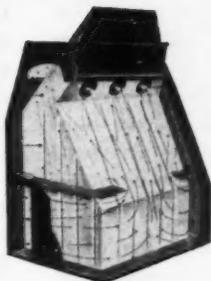
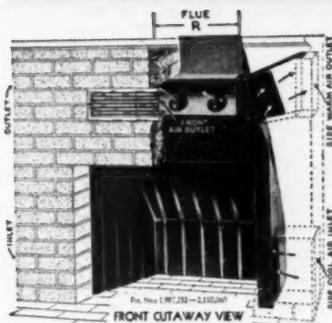
**CURTISTRIP** Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
**CUSH-N-BLO** Ideal Industries Inc 1335 Park Av Sycamore Ill  
**CUSTOM-AIR** Trane Co 3rd & Cameron LaCrosse Wis  
**CYCLONE** Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY  
**CYCLONE** Cyclone Fence Dept American Steel & Wire Div U S Steel Corp Box 260 Waukegan Ill  
**CYCLONE** Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill  
**CYCLONE HAND** Cyclone Seeder Co Urbana Ind  
**CYCLONE POWER** Cyclone Seeder Co Urbana Ind  
**CYCLOTHERM** United States Radiator Corp Buhl Bldg Detroit 31 Mich  
**CYL-O-LATCH** Chesler (J) & Sons Inc 41-49 Varick Av Brooklyn 37 NY

## D

**D-B** Dura-Bilt Tool Co Inc 60 North Av Box 216 Natick Mass  
**DBCO** Denmore Brick Co 162 Hanover Lebanon NH  
**DAD & LAD** Dad & Lad Co New Lenox Ill  
**DAISY** Quinn Wire & Iron Wks 1200 Cedar Rd Boone Ia  
**DALLAS HUT** Texas Housing Co 9001 Denton Dr Dallas 9 Tex  
**DALTON** Dalton Mfg Co 20 S Central Av St Louis 5 Mo  
**DAMIT** Quigley Co Inc 527 Fifth Av New York 17 NY  
**DAMP-VENT** Damp-Vent Co 210 17th Box 203 Bettendorf Iowa  
**DANBURY** Danbury Rubber Co Inc Shelter Rock Rd Danbury Conn  
**DANDIE** Mixer-Mix Co Port Washington Wis  
**DANDIE MIXERS** Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
**DANDY** Boy Midland Co 1200 W Rawson Av South Milwaukee Wis  
**DA-N-ITE** Premax Prods Div Chisholm-Ryder Co Inc Highland & College Aves Niagara Falls NY  
**DARLINGTON** Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
**DARRA-JAMES** Toolkraft Corp Plainfield St Springfield 1 Mass  
**DART** Dart Mfg & Sales Co 1002 S Jason Denver Colo  
**DART** Dart Union Co 134 Thurbers Av Providence 5 RI  
**DAVID ROUND** Round (David) & Son Inc Box 883 Cleveland 22 Ohio  
**DAVIS & WELLS** Consolidated Machinery & Supply Co Ltd 2033 Santa Fe Av Los Angeles 21 Cal  
**DAVIS SAW FILER** Chattanooga Saw Wks 1512 Williams Chattanooga Tenn  
**DAYTON** Grainger (W W) Inc 118 S Oakley Blvd Chicago 12 Ill  
**DAYTON SURE GRIP** Dayton Sure Grip & Shore Co 504 Kercher Miamisburg Ohio  
**DAZEY** Dazezy Corp Warne & Carter Av St Louis 7 Mo  
**DEARBORN** Dearborn Stove Co 1700 W Commerce Dallas Tex  
**DEAROSA** Vernontown Mfg Co Inc 338 W Lincoln Av Mt Vernon NY  
**DECORA** Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
**DECORATOR** Tiley (John S) Ladders Co 100-122 Second Watervliet NY  
**DECORLATEX** Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
**DECRA-LITE** Beco Corp 3035 Canton Dallas Tex  
**DEEP-TREAT** Chapman Chemical Co 707 Sherman Bldg Memphis Tenn  
**DEKADOOR** United States Plywood Corp 55 W 44th New York 36 NY  
**DEKALEATHER** United States Plywood Corp 55 W 44th New York 36 NY  
**DEKALUX** United States Plywood Corp 55 W 44th New York 36 NY  
**DEKATILE** United States Plywood Corp 55 W 44th New York 36 NY  
**DELCO CONDITIONAIR** Deleo Appliance Div General Motors Corp Lyell & Whitney Rochester NY  
**DELCO-HEAT** Delco Appliance Div General Motors Corp Lyell & Whitney Rochester NY  
**DELFAIR** Fair (D L) Lumber Co Box 309 Louisville Miss  
**DELUXE** DeLuxe Metal Furniture Co 402 Struthers Warren Pa  
**DELUXE** Mengel Co 4th & Colorado Louisville 1 Ky  
**DELUXE** Miracle Paint Rejuvenator Co 500 Robert St Paul 1 Minn  
**DELUXE** Premax Prods Div Chisholm-Ryder Co Inc Highland & College Aves Niagara Falls NY  
**DELUXE Vogue** Mfg Co 2311 Taylor Fort Wayne 6 Ind  
**DEMPSTER** Dempster Mill Mfg Co 711 S 6th Beatrice Nebr  
**DENISON** Denison Corp 1890 NE 146th North Miami 6 Fla  
**DENSITE** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**DENSULITE** Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn

**DES LAURIERS** Ideal Cabinet Corp 2903 Central Evanston Ill  
**DESMOND SIMPLEX** Desmond-Stephan Mfg Co 425 S Walnut Urbana Ohio  
**DETECTO** Detecto Scales Inc 540 Park Av Brooklyn 5 NY  
**DETECT-O-GRAM** Detecto Scales Inc 540 Park Av Brooklyn 5 NY  
**DETJEN** Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY  
**DEVAC GLASS WALLS** Self Storing Window Co Inc 5901 Wayzata Blvd Minneapolis Minn  
**DEVORE** Devore & Reynolds Co Inc 787 First Av New York 17 NY  
**DEWALT** DeWalt Inc Fountain Av Box 540 Lancaster Pa  
**DEWEY-SHEPARD** Dewey-Shepard Boiler Co 1311 N Capitol Av Indianapolis Ind  
**DEXATILE** United States Plywood Corp 55 W 44th New York 36 NY  
**DEXTER** Russell Harrington Cutlery Co 44 River Southbridge Mass  
**DEXTER BRAND** Scottdale Wood Prods Inc Box 36 Scottdale Pa  
**DEXTER LIFETIME** Dexter Lock Co Subsid National Brass Co 1601 Madison Av SE Grand Rapids 2 Mich  
**DEXTRA-LITES** Swivelcor Co Inc 43 34th Brooklyn NY  
**DIAL-SET** Kol-Master Corp 124 Walberg Oregon Ill  
**DIALTEMP** Electrigras Corp Newbridge & Windsor Rds Bergenfield NJ  
**DIAMIDE** Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ  
**DIAMOND** Diamond Expansion Bolt Co Inc 500 North Av Garwood NJ  
**DIAMOND** Reliable Metal Novelty Co Inc 25 Elm Av Mount Vernon NY  
**DIAMOND** Speakman Co 30th & Spruce Wilmington 99 Del  
**DIAMOND BRAND** Chain Link Fence Corp 4301 W 69th Chicago 29 Ill  
**DIAMOND S Fitter** (Edwin H) Co Deverness & Milnor Philadelphia 24 Pa  
**DIAMOND T** Diamond T Motor Car Co 4401 W 26th Chicago 23 Ill  
**DIANA FYRBAN** Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
**DIE-CUT STRAP** Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
**DIENERS'S** Diener (George W) Mfg Co 400 N Monticello Av Chicago 24 Ill  
**DIETZ** Dietz (R E) Co 225 Wilkinson Syracuse 1 NY  
**DIFFUSAIRE** Hart & Cooley Mfg Co 500 E Eighth Holland Mich  
**DIFUSO** Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich  
**DIFUSOLIER** Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich  
**DIRECT-A-CALL** Connecticut Telephone & Elec Div 70 Britannia Meriden Conn  
**DISHMAID** Dishmaid Inc 5900 Euclid Av Cleveland 3 Ohio  
**DISH WHIZ** Price-Pfister Brass Mfg Co 3011 Humboldt Los Angeles 3 Cal  
**DISPOSAL** General Electric Co Major Appliance Div 310 W Liberty Louisville Ky  
**DISPOSAL** Goder (Joseph) Incinerators 5121 Ravenswood Chicago 40 Ill  
**DITCH WITCH** Charles Machine Wks 625-30 Birch Perry Okla  
**DIVCO** Division Lead Co 7742 W 61st Pl Summit Ill  
**DIXON** Dixon (Joseph) Crucible Co 167 West Jersey City 2 NJ  
**DODGE CORK BULLETIN BOARD** Dodge Cork Company Inc Laurel & Manor Lancaster Pa  
**DODGE VINYL-CORK TILE** Dodge Cork Co Inc Laurel & Manor Lancaster Pa  
**DO-IT-SHOP** Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 40 Ill  
**DOLPHIN** Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
**DOMESTIC** Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
**DONOVAN WINDOWS** Universal Window Co 950 Parker Berkeley 10 Cal  
**DORFLO** EZ-Way Sales Inc St Paul Park Minn  
**DORSEY CUTTER** Dorsey Trailers 401 Hickman Elba Ala  
**DORSEY TRAILERS** Dorsey Trailers 401 Hickman Elba Ala  
**DOR-TITE** Durkee-Atwood Co 215 NE 7th Minneapolis Minn  
**DOUBLE-WHITE** Cabot (Samuel) Inc 141 Mill Boston Mass  
**DOUBLE X** Schaefer Chemical Co 351 E Second Los Angeles 12 Cal  
**DOUBLEX** Blue Ridge Glass Corp Libbey Owens-Ford-Sales Agent Nicholas Bldg Toledo 3 Ohio  
**DOUBLEX** Johns-Manville 22 E 40th New York 16 NY  
**DOUGLAS CRESTLYN** Douglas Crestlyn International Inc 901 Girard NE Washington 17 DC  
**DOZERMOBILE** Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore  
**DRAFTMASTER** Stacor Equipment Co 768 E New York Av Brooklyn 3 N Y  
**DRAIN DOCTOR** Bromwell Wire Goods Co 1306-7 Enquirer Bldg Cincinnati 2 Ohio  
**DRAMEX** Reardon Co 7501 Page Ave St Louis 14 Mo

for fireplaces with more heat delivery and durability, **SELL**  
**HEATFORMS\*** and *Superior FORM DAMPERS*  
 • send for complete information today



**HEATFORM MODEL "A"**

Shown at left above with part of masonry cutaway; at right above (rear and side view) with outer lining removed. Arrows demonstrate air circulation through heating chambers and contact of air to all heating surfaces.

HEATFORM is a double-walled metal unit (hearth to flue) around which anyone can easily build the masonry to complete a fireplace of any design. Its air chambers capture and circulate through the home a large amount of heat lost up the chimney by the old-fashioned fireplace.

HEATFORM adds but little to the total cost of the finished fireplace. It consists of the firebox, throat, smoke-dome and properly located damper, and thus saves labor and material.

HEATFORM has all the good qualities of any other heat circulating unit, PLUS the following exclusive advantages:

- ribs individually formed into the boiler plate metal of the firebox give much greater strength than flat metal as well as being more attractive.
- nothing to rust out . . . all metal parts beneath the chimney sealed in masonry.
- more heat delivery because air chambers surround the firebox and upper front and side walls of the throat, adding extra heating surface.
- connecting air passages at each end of and through the throat eliminate dead-air pockets, assuring contact of air to all heating surfaces and greater air circulation.

HEATFORM Model "S" (at left) for the modern corner fireplace with right or left side open. Has all the features of Model "A", plus greater view of the fire. Model "M" (not shown) has the front and both sides open.

Special lintel angle bars and corner posts available for "S" and "M". Custom-built drupe screens available for all models and sizes.



**SUPERIOR FORM DAMPERS**

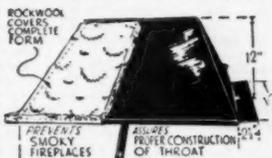
These dampers are especially designed for use where the extra heat produced by HEATFORM is NOT a prime factor, but to avoid smoke troubles primarily due to faulty construction of the throat . . . the most important part of the fireplace.

The damper is pivoted at the proper point and swings backward to an open position, but never beneath the chimney flue. This prevents downdraft wind currents from entering the throat, assuring a perfect draft.

SUPERIOR FORM DAMPERS save more than HALF THEIR COST in labor . . . no forms to build, bricks to cut, or throat to plaster.

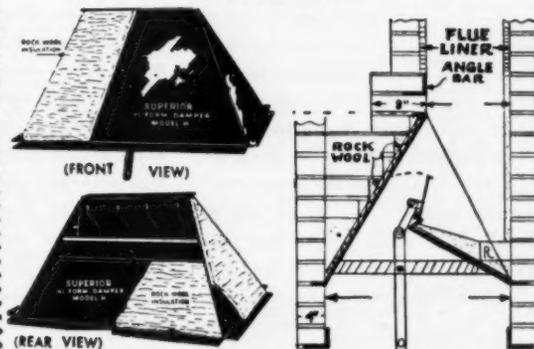
**SUPERIOR FORM DAMPER (Model "L")**

—for the conventional fireplace



The form and all parts of the Superior Form Damper are constructed of heavy plate steel for lifetime service. No brittle cast-iron parts to break in shipping, handling or usage. The use of the blanket of rockwool, provided with each unit, is the only proven method of absorbing expansion of metal to prevent cracking of masonry.

**SUPERIOR HI-FORM DAMPER MODEL "H"**  
 —for the modern fireplace



SUPERIOR HI-FORM Model "H" Damper is especially designed for modern fireplaces using a single smoke flue; such as a fireplace with the front and one or more sides open or, a fireplace opening through between two rooms (see section cut above). Superior Hi-Form is the only design damper we can conscientiously recommend for the modern fireplace.

**SUPERIOR FORM DAMPERS** have been standard specification by the Building Profession for the past 30 years in the West and are now available through distributors and dealers throughout the entire country.

DEPT. AB 542  
 1708 E. 15th St.  
 LOS ANGELES 21, CALIF.

\*HEATFORM is the registered trade mark of Superior Fireplace Company.

**SUPERIOR FIREPLACE CO.**

DEPT. AB 542  
 601 North Point Road  
 BALTIMORE 6, MARYLAND

OUR EAST AND WEST COAST FACTORIES MAKE THIS MERCHANDISE QUICKLY AVAILABLE THROUGH BUILDING SUPPLY AND LUMBER DEALERS EVERYWHERE

PIONEER DESIGNERS AND MANUFACTURERS OF THE MOST EFFICIENT AND DURABLE LINE OF HEAT CIRCULATING FIREPLACE UNITS AND FORM DAMPERS

**DRAX Johnson (S C) & Son Inc** 1525 Howe Racine Wis  
**DRAYER-HANSON United States Rubber Corp** Buhl Bldg Detroit 31 Mich  
**DREADNAUGHT Wall (P) Mfg Co** Erie St Grove City Pa  
**DREADNOUGHT Chicago Paints Inc** 4500 W 14th Chicago 23 Ill  
**DREMEL SANDERS Dremel Mfg Co** 2409 18th Racine Wis  
**DRESDEN Dresden Mfg Co** 2375 Walnut Av Long Beach 6 Cal  
**DRESS-ATORY Regal Cabinet Corp** 92 Third Brooklyn 31 N.Y.  
**DRI-CELL Homes Inc** 5212 Homberg Dr Knoxville Tenn  
**DRI-GAS Dri-Gas Co** 343 S Dearborn Chicago 4 Ill  
**DRI TEX Wayne Chemical Prods Co** Copeland & MC RR Detroit 17 Mich  
**DRIVE-IT Powder Wheel Tool Corp** 7526 SW Macadam Av Portland 1 Ore  
**DRY-AIRLA Roper (Gen. D) Corp** Blackhawk Park Av Rockford Ill  
**DRYLOK United Gilsonite Laboratories** 1396 Jefferson Av Scranton 1 Pa  
**DRYWALL TRIM Kaptur (Joseph J) & Co** 121st & 90th Palos Park Ill  
**DUA-LITE Curtis Lighting Inc** 6135 W 65th Chicago 38 Ill  
**DUAL-PRIME Construction Machinery Cos** 420 Vinton Waterloo Iowa  
**DUALSTEEL Rockwood Sprinkler Co** 38 Harlow Worcester 5 Mass  
**DUBLECOTE Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**DUB-L-TITE Mobile Paint Mfg Co** Inc Box 1656 Mobile Ala  
**DUETTE Miami Cabinet Div Carey (Philip) Mfg Co** 1950 Grand Av Middletown Ohio  
**DUGAN'S Dugan Stone Patcher & Stain Prods** 8115 Kenwood Av Chicago 11  
**DUKANE Dukane Corp** 200 N 11th St Charles Ill  
**DU-KWIK Chicago Paints Inc** 4500 W 14th Chicago 23 Ill  
**DULABEL Benjamin Moore & Co** 511 Canal New York 13 NY  
**DUMPCRETE Maxon Construction Co** Inc 131 N Ludlow Dayton 2 Ohio  
**DUMP-IT Wood (Gar) Industries Inc** Michigan Blvd Wayne Mich  
**DUMP-O-MATIC Wood (Gar) Industries Inc** Michigan Blvd Wayne Mich  
**DUMPOVER Construction Machinery Cos** 420 Vinton Waterloo Iowa  
**DUNKIRK Dunkirk Radiator Corp** 85 Middle Rd Dunkirk Ny  
**DUO Illinois Lock Co** 822 S Ada Chicago 7 Ill  
**DUO-WAY Mixermobile Mfrs** 8027 NE Killingsworth Portland 20 Ore  
**DUPLEX Chase Brass & Copper Co** Inc 236 Grand Waterbury 20 Conn  
**DUPLEX United States Gypsum Co** 300 W Adams Chicago 6 Ill  
**DUPLEX ADJUSTABLE Duplex Inc** 634 N LaPier Dr Los Angeles 46 Cal  
**DUPLEX PRE-SET Duplex Inc** 634 N LaPier Dr Los Angeles 46 Cal  
**DUPLIMAT Addressograph-Multigraph Corp** 1200 Babbitt Rd Cleveland 17 Ohio  
**DURA-BILT Busch (A G) & Co** Inc 2632 N Central Av Chicago 39 Ill  
**DURABLE Acme Rubber Mfg Co** Box 1001 Trenton NJ  
**DURA BRITE Century Industries Inc** 1521 W 35th Chicago 9 Ill  
**DURACHROME Trenton Pipe Nipple Co** 626 Brunswick Av Box 1234 Trenton NJ  
**DURACO Azrock Prods Div Uvalde Rock Asphalt Co** Box 531 San Antonio 6 Texas  
**DURACUT Bay State Abrasive Prods Co** Union St Westboro Mass  
**DURALINE Universal Drafting Machine Co** 7960 Lorain Av Cleveland 2 Ohio  
**DURALITE Aluminum Home Prods Co** Box 10021 Carr St & Southern Ry Knoxville Tenn  
**DURALL New York Wire Cloth Co** 63 Park New Canaan Conn  
**DURA-LOK Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**DURALUM Pacific Wire Prods Co** 1955 E 16th Los Angeles Cal  
**DURAMARK Eberhard Faber Pencil Co** 37 Greenpoint Av Brooklyn 22 NY  
**DURA-PLUG Penn Crete Prods Co** 20th & Lippincott Philadelphia 32 Pa  
**DURA-PROOF Penn Crete Prods Co** 20th & Lippincott Philadelphia 32 Pa  
**DURA-SEAL Zegers Inc** 8090 South Chicago Av Chicago 17 Ill  
**DURATEE Webb Prods Co** 216 South G San Bernardino Cal  
**DUREX Jones Superior Machine Co** 1270 W North Av Chicago 22 Ill  
**DUREX Richbuilt Mfg Co** 3277 Spring Grove Av Cincinnati 25 Ohio  
**DURHAM'S ROCK HARD Durham (Donald) Co** Box 804 Des Moines 4 Iowa  
**DURMALITH Troyer Driveway Service** 2157 S Park Av Buffalo 20 NY  
**DURMO THE FINISH ETERNAL Soli'litz Paint & Varnish Co** 18th & Garfield Kansas City Mo  
**DURO Flat Metal Mfg Co** 9301 Belmont Franklin Park Ill  
**DURO Pacific Wire Prods Co** 1955 E 16th Los Angeles Cal  
**DUROID Pacific Wire Prods Co** 1955 E 16th Los Angeles Cal

**DUROLASTIK Weatherguard Service Inc** 564 Jackson Av New York 55 NY  
**DUROLITE Insulate Div Minn & Ontario Paper Co** 500 Baker Arcade Bldg Minneapolis 2 Minn  
**DURON United States Gypsum Co** 300 W Adams Chicago 9 Ill  
**DUROTEX Kedmont Mfg Co** Div of General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
**DUTCH BOY National Lead Co** 111 Broadway New York 6 NY  
**DUTCH BRAND Van Cleef Bros Inc** 7800 S Woodlawn Av Chicago 19 Ill  
**DUXBAC Logan-Long Co** 6600 S Central Av Chicago 38 Ill  
**DUX-BAK Commercial Paste Co** Bottles at Michigan Columbus 8 Ohio  
**DUX SULATION Wilson (Grant) Inc** 141 W Jackson Blvd Chicago 4 Ill  
**DWYER KITCHENS Dwyer Prods Corp** Calumet & Holiday Michigan City Ind  
**DYNALITE Milwaukee Electric Tool Corp** 5355 W State Milwaukee 8 Wis  
**DYNALITE True Temper Corp** 1623 Euclid Av Cleveland 15 Ohio  
**DYNAMIC True Temper Corp** 1623 Euclid Av Cleveland 15 Ohio  
**DYNO-MITE Millers Falls Co** Wells & Devon Greenfield Mass

## E

**E Z Berkeley Specialties Co** 899 Gilman Berkeley 10 Cal  
**E-Z DRIVE Signode Steel Strapping Co** 2600 N Western Av Dept 113 Chicago 47 Ill  
**E-Z-GLAZE Calbart Paint & Varnish Co** 2612-26 N Martha Philadelphia 25 Pa  
**E Z GLAZE Farley & Loetscher Mfg Co** Dubuque Iowa  
**E-Z GLIDE Engineered Prods Co** 129 Smith Box 118 Flint Mich  
**E Z KLEEN Research Prods Corp** 1015 E Washington Av Madison 10 Wis  
**E-Z ON Baltz (Robert N) & Co** Inc 1009 Harvard Terrace Evanston Ill  
**E-Z PATCH Sullivan Co** 212 E Trigg Av Memphis Tenn  
**E-Z ROLL Engineered Prods Co** 129 Smith Box 118 Flint 4 Mich  
**E Z UP Roach & Musser Co** Muscatine Iowa  
**E Z VENT Roach & Musser Co** Muscatine Iowa  
**EAGLE Eagle Electric Mfg Co** Inc 23-10 Bridge Plaza S Long Island City 1 NY  
**EAGLE Eagle Pencil Co** 703 E 13th New York 9 NY  
**EAGLE Four Wheel Drive Co** E 12th & Auto Clintonville Wis  
**EAGLE-PICHER Harrison Steel Cabinet Co** Bldg Cincinnati 1 Ohio  
**EASY Detroit Surfacing Machine Co** 1337 8-Mile Rd Detroit Mich  
**EASY LIVING Universal-Rundle Corp** Box 960 New Castle Pa  
**EASYMOUNT Sterling Abrasives Div** Cleveland Quarries Co 1450 Broad Tiffin 15 Ohio  
**ECCO Ekstrom Carlson & Co** 1400 Railroad Av Rockford Ill  
**ECONMASTER Econmaster Sales Inc** 120 Ninth Av N Nashville Tenn  
**ECONOMATIC Electricluz Corp** Newbridge & Windsor Rds Bergenfield NJ  
**E-CON-O-MILL Gairing Tool Co** 21221 Hoover Rd Detroit 32 Mich  
**ECON-O-MIZER Harrison Steel Cabinet Co** 4718 W Fifth Av Chicago 44 Ill  
**ECON-O-TILE Wilson Plastics Inc** 1531 Milan Rd Sandusky Ohio  
**ECONOMY Arex Co** 612 Michigan Av Chicago 11 Ill  
**ECONOMY Economy Bias Binding Co** Inc 41-51 E 11th New York 3 NY  
**ECONOMY Economy Housing Co** 6th & Chestnut Wahoo Neb  
**ECONOMY Harris Mfg Co** Grover at Walnut Johnson City Tenn  
**ECONOMY International Heater Co** 101 Park Av Utica NY  
**ECONOMY Woodenware Prods Corp** 122 N 7th St Louis 1 Mo  
**EDCO Caurnon Distributing Co** 9999 Broadway Detroit 4 Mich  
**EDDY Eddy Stoker Corp** 4713-19 W North Av Chicago 11 Ill  
**EDGE GUARD Drywall Trim Inc** 2408 N Farwell Av Milwaukee 11 Wis  
**800-900 Slaymaker Lock Co** 115 S West End Av Lancaster Pa  
**ELASTICA Standard-Toch Chemicals Inc** 2600 Richmond Terrace Staten Island 3 NY  
**ELASTIGUM Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**ELECTREND Electrend Prods Corp** Box 110 St Joseph Mich  
**ELECTRESTEEM Electric Steam Radiator Corp** One Electric Av Paris Ky  
**ELECTRIGLS Electricluz Corp** Newbridge & Windsor Rds Bergenfield NJ  
**ELECTRO-GLASS Peerless Mfg Co** 2100 N 11th Reading Pa  
**ELECTRO-KLEAN Herman Nelson** 215 Central Av Louisville Ky  
**ELECTROLON Simonds Abrasive Co** Tacony & Friley Philadelphia 37 Pa  
**ELECTROMODE Electromode Corp** 45 Crouch Rochester 3 NY  
**ELECTRONIC SERVICEMAN McKee Door Co** 110 Hankes Aurora Ill  
**ELEVATING CEMENT CHARGER Johnson (C S) Co** Box 711 Champaign Ill

**ELGIN Elgin Softener Corp** 142 N Grove Av Elgin Ill  
**ELITE Modern Venetian Blinds Inc** 261 Fifth Av New York 16 NY  
**ELLIS-FORD-PATTERN-WHEELS Collmer Bros** 420 S St Joseph South Bend 1 Ind  
**ELNO Cleveland Heater Co** 2310 Superior Av Cleveland 14 Ohio  
**EMALJ Masury (John W) & Son Inc** 1700 Bayard Baltimore 30 Md  
**EMCO Engman Mfg Co** 1317 Locust Des Moines 9 Iowa  
**EMERSON-ELECTRIC Emerson Electric Mfg Co** 8100 Florissant Av St Louis 21 Mo  
**ENAMEL-KOTE Acme Quality Paints Inc** 8250 St Aubin Av Detroit 11 Mich  
**ENCO Eastern Nail Co** 50 Aleppo Providence 9 RI  
**END-O-PEST Swift & Co** Plant Food Div 4115 S Packers Chicago 9 Ill  
**END-O-WEED Swift & Co** Plant Food Div 4115 S Packers Chicago 9 Ill  
**ENRAMEL Moore Dry Kiln Co** 1220 W State Jacksonville Fla  
**ENPO Piqua Machine & Mfg Co** 441 S College Piqua Ohio  
**ENSGN Fiat Metal Mfg Co** 9301 Belmont Av Franklin Park Ill  
**ENTERPRISE Enterprise Co** S Main St Columbia Ohio  
**ERECT-A-COLUMN Tennessee Fabricating Co** 1490 Greer Memphis Tenn  
**ESCO Escocabinet Co** E Bidde at RR West Chester Pa  
**ES-NAIL Elastic Stop Nut Corp** of America 2330 Vauxhall Rd Union NJ  
**ESSO Gilbert & Barker Mfg Co** Cold Springs Av West Springfield Mass  
**ETERNUM Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**ETLING UTILITY WINDOW Weather-Seal Inc** 24 Huston Barborton Ohio  
**ETLING WINDOW Etlung Window** 24 Huston Barborton Ohio  
**EUCILD Mansfield Sanitary Pottery Inc** Perrysville Ohio  
**EUREKA Bache (Semon) & Co** 636 Greenway New York 14 NY  
**EVANER Evans Prods Co** 13101 Eekles Rd Plymouth Mich  
**EVANS Evans & Co** 400-416 Trumbull Elizabeth NJ  
**EVANS WHITE-TAPES Evans & Co** 400-416 Trumbull Elizabeth NJ  
**EVEN LINE Rotary Clothes Dryer Co** Inc 836-46 Lawrence Allentown Pa  
**EVEN-TEMP Northwest Metal Prods Inc** 55 Spokane Seattle 4 Wash  
**EVER-FAST Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**EVERFAST Howe & French Inc** 99 Broad Boston 10 Mass  
**EVERGUARD Weatherguard Service Inc** 564 Jackson Av New York 55 NY  
**EVERJET Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**EVERLAST Acme Brick Co** Box 425 Fort Worth Tex  
**EVERLASTIC Acme Brick Co** Box 425 Fort Worth Tex  
**EVERLASTIC Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**EVERLASTING Wall (P) Mfg Co** Erie St Grove City Pa  
**EVERSET Acme Brick Co** Box 425 Fort Worth Tex  
**EVERSPRAY Everhot Prods Co** 2001 W Carroll Av Chicago 12 Ill  
**EVERSTICK Hayes Adhesives Co** Inc 1770 Canfield Av Chicago 15 Ill  
**EVERTITE LIQUID RESIN GLUE** Franklin Glue Co 119 W Chestnut Columbus 4 Ohio  
**EVER-LAST Berkeley Specialties Co** 899 Gilman Berkeley 10 Cal  
**EXECUTONE Executive Inc** 415 Lexington Av New York 17 NY  
**EXPAND-R-STRAP Gerrard (A J) & Co** 1950 Hawthorne Av Melrose Park Ill  
**EXPANSLIP Bennett-Ireland Inc** 23 State Norwich NY  
**EXT-DEPA Douglas Fir Plywood Assn** 1119 A St Tacoma Wash  
**EXTERCOE National Chemical & Ink Co** 3617 S May Chicago 9 Ill  
**EZEBLT Universal Mfg Corp** W New Castle Zeligonle Pa  
**EZI-KLEEN Breneman-Hartshorn Inc** 2045 Reading Rd Cincinnati 2 Ohio  
**EZ-WAY EZ-Way Sales Inc** St Paul Park Minn  
**EZY-LIFT Hudson (H D) Mfg Co** 589 E Illinois Chicago 11 Ill

## F

**FDCG Sedgwick Machine Wks** 154 W 15th New York 11 NY  
**F L Farley & Loetscher Mfg Co** Dubuque Iowa  
**FPF Reese Metal Weather Strip Co** 712 Park Av Minneapolis Minn  
**F W D Four Wheel Drive Auto Co** E 12th Clinton Wis  
**F & L DE LUXE Farley & Loetscher Mfg Co** Dubuque Iowa  
**F & W Flint & Walling Mfg Co** Inc 95 Oak Kendallville Ind  
**FABCO CLOSURE STRIPS** Fabricated Prods Co Water St West Newton Pa  
**FABRICO General Woodcraft Co** Inc 3323 Paterson Plank Rd North Bergen NJ

**FACTROTITE** Mississippi Glass Co 88 Angelica St Louis 7 Mo  
**FAIRFAX** Edwards Co Inc Post Rd Norwalk Conn  
**FAIRFIELD** Autovore Co Oakville Conn  
**FAIRFIELD BUILDER** Fairfield Engineering Co 324 Barnhart Marion Ohio  
**FAIRFIELD FEATHER-LITE** Fairfield Engineering Co 324 Barnhart Marion Ohio  
**FAIRFIELD HAINES** Fairfield Engineering Co 324 Barnhart Marion Ohio  
**FAIRFIELD HUGHES** Fairfield Engineering Co 324 Barnhart Marion Ohio  
**FAIRFIELD SMOOTH-FLO** Fairfield Engineering Co 324 Barnhart Marion Ohio  
**FALLS CITY** True Temper Corp 1623 Euclid Cleveland 15 Ohio  
**FALMOUTH** Portland Stove Foundry Co 57 Kennebec Portland Me  
**FAN-AIR** Premier Furnace Co Box 150 Dowagiac Mich  
**FAN-GLO HEETAIRES** LaSalle Prods Inc 143 Seneca Buffalo NY  
**FARLITE** Farley & Loetscher Mfg Co Dubuque Iowa  
**FARLO-ROL** Farley & Loetscher Mfg Co Dubuque Iowa  
**FARLO-SEAL** Farley & Loetscher Mfg Co Dubuque Iowa  
**FARWEST HOMES** West Coast Mills 555 State Chehalis Wash  
**FASCO** Fasco Industries Inc 255 N Union Rochester 2 NY  
**FAST-EST** Raymond Lumber Co Tomahawk Wis  
**FASTIK** United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**FASTRIP** United Gilsonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**FEATHERWEIGHT** Keasbey & Mattison Co Butler Av Ambler Pa  
**FEDERAL** Federal Enterprises Inc 8700 S State Chicago 19 Ill  
**FEDERAL** Federal Motor Truck Div Federal Fawick Corp 5780 Federal Av Detroit 9 Mich  
**FEDERAL NOARK** Federal Electric Prods Co 50 Paris Newark 50 NJ  
**FENESTRA** Detroit Steel Prods Co 2250 E Grand Blvd Detroit 11 Mich  
**FERRAFLO** Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
**FERRAPLY** Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
**FERROKOTE** Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
**FERROLITH** Sonneborn (L) Sons Inc Bldg Prods Div 404 Fourth Av New York 16 NY  
**FERROTONE** Penetone Co 74 Hudson Av Tenafly NJ  
**FIBERLITE** Insulite Div-Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
**FIBRETONE** Johns-Manville 22 E 40th New York 16 NY  
**50-50 PUSH** Over Allth-Prouty Inc 819 N Bowman Av Danville Ill  
**#52 CALCODA** Calbar Paint & Varnish Co 2612-26 N Martha Philadelphia 25 Pa  
**#54 Howe** Scale Co 2947 Scale Av Rutland Vt  
**FIGUREMASTER** Marchant Calculators Inc 1475 Powell Oakland 8 Cal  
**FIGUREMATIC** Marchant Calculators Inc 1475 Powell Oakland 8 Cal  
**FILMURE** #58 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
**FILZIT** Lux Co Inc 315 W Franklin Elkhart 2 Ind  
**FINGER-STRAP** Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
**FINNELL** Finnell System Inc 500 East St Elkhart Ind  
**FIRECRETE** Johns-Manville 22 E 40th New York 16 NY  
**FIRE GUARD** Eddy Stoker Corp 4713-19 W North Av Chicago Ill  
**FIREGUN** Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
**FIREHOLD** Cheesman-Elliott Co Inc 645 Kent Av Brooklyn 11 NY  
**FIREHOOD** Condon-King Co 613 8th Av N Seattle 9 Wash  
**FIRE-LOCK** Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
**FIRESTOP BESTWALL** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**FIRMFLEX** Gardner Wire Co 1325 S Cicero Av Chicago 50 Ill  
**FIRZITE** United States Plywood Corp 55 W 44th New York 36 NY  
**FITLER** Fittler (Edwin H) Co Devereaux & Milnor Philadelphia 24 Pa  
**5 F 5** Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
**5-STAR** General Paint Corp 262; Army San Francisco 19 Cal  
**FIVE STAR PLANS** Better Homes & Gardens 1714 Locust Av Des Moines 3 Iowa  
**FIWALE** Fiwale Equipment Mfg Co 105-07 Reade New York 13 NY  
**FIX-A-NIK** Webb Prods Co 216 South G San Bernardino Cal  
**FIXMASTER** Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 46 Ill  
**FLAJO BOARD** Flack Jones Lbr Co Inc Moncks Corner SC  
**FLAMINGO** Riverton Lime & Stone Co Inc Riverton Va  
**FLASCO** Farmers Lumber & Supply Co 512-16 S Chambers Sioux City 11 Iowa

**FLASH-CHEK** Westinghouse Electric Corp Lamp Div Bloomfield NJ  
**FLASH STEEL BRIDGING** Flash Bridge Co US 31 & 32 Holland Mich  
**FLEETWING** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**FLETCHER** Fletcher-Terry Co 437 South St Forestville Conn  
**FLEXACHROME** Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
**FLEX A SWITCH** Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich  
**FLEXBOARD** Johns-Manville 22 E 40th New York 16 NY  
**FLEXCELL** Celotex Corp 120 S LaSalle Chicago 3 Ill  
**FLEXIBRUSH** Kwiksand Inc 529 Merchants Rd Rochester 9 NY  
**FLEXICO** O'Brien corp 101 N Johnson South Bend 21 Ind  
**FLEXICORE** Flexicore Co Inc 1932 E Monument Av Box 825 Dayton 1 Ohio  
**FLEXI DUCT TAPE** Wilson (Grant) Inc 141 W Jackson Blvd Chicago 4 Ill  
**FLEXIFONE** Dukane Corp 200 N 11th St Charles Ill  
**FLEXIGUM** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
**FLEXISEAL** Landen Putty Wks Inc 45 Irving Malden 48 Mass  
**FLEXLOY** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**FLEXO** Farley & Loetscher Mfg Co Dubuque Iowa  
**FLEX-O-CAP** Crofoot Mfg Co 217 Evergreen Mount Prospect Ill  
**FLEX-O-GLASS** Flex-O-Glass 1100 N Cicero Chicago 51 Ill  
**FLEXO-SEAL** Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn  
**FLEXROLLER** Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn  
**FLEXSCREEN** Bennett-Ireland Inc 23 State Norwich NY  
**FLEX-SET** Broderick & Bascom Rope Co 4203 Union Blvd St Louis 15 Mo  
**FLEXSTONE** Johns-Manville 22 E 40th New York 16 NY  
**FLEX-TUNG** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**FLEXTURES** Grand Rapids Store Equip Co 1340 Monroe Av NW Grand Rapids Mich  
**FLEXWOOD** United States Plywood Corp 55 W 44th New York 36 NY  
**FLIGHT-VEYOR** American Conveyor Co 1115 W Adams Chicago 7 Ill  
**FLOATING** Stanley Works Garage Hardware Div New Britain Conn  
**FLO-BALL** Clar Multiplier Corp 408 Junipero San Gabriel Cal  
**FLO-MASTER** Acme Equipment Co 213 E Broadway Muskogee Okla  
**FLOOR LEVEL** Delta Heating Corp 1 Cole Trenton 8 NJ  
**FLOORMASTER** Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY  
**FLO-WARM** Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio  
**FLORBOSS** FlorBoss-Habit Co 4151 W Montrose Av Chicago 41 Ill  
**FLOOR-CEAL** Builders Prods 105 W Adams Chicago 3 Ill  
**FLORENCE LUXURI-LINE** Florence Stove Co School St Gardner Mass  
**FLORENCE-QUAKER** Florence Stove Co School St Gardner Mass  
**FLOW-COLD** Acme Industries Inc 600 N Mechanic Jackson Mich  
**FLOW-TEMP** Acme Industries Inc 600 N Mechanic Jackson Mich  
**FLUSH WALL RADIO** Flush Wall Radio Co 1012 Cleveland Clearwater Fla  
**FLUTEX** Blue Ridge Glass Corp Libbey Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio  
**FLUX-STIK** Lake Chemical Co 3952 W Carroll Av Chicago 12 Ill  
**FOAMGLAS** Pittsburgh Corning Corp One Gateway Center Pittsburgh 22 Pa  
**FOLB-A-STAIR** Craig-Wood Prods Co Brennan Rd Columbus Ga  
**FOLD-A-WEIGH** Standard Building Prods Co 621 McDonald Av Brooklyn 18 NY  
**FOLDTOP** Curry Steel Prods Co 417 S Spring Independence Mo  
**FOLTOP & ROLLTOP** Curry Steel Prods Co 417 S Spring Independence Mo  
**FOND DU LAC STONE** Fond du Lac Stone Co Inc Hwy 41 So Box 148 Fond du Lac Wis  
**FOOTHOLD** Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY  
**FOR-AIR** Spray-O-Bond Co 2225 N Humboldt Av Milwaukee 12 Wis  
**FORCE-FLO** Trane Co 3d & Cameron La-Crosse Wis  
**FOREST BOARD** Forest Fiber Prods Co Box 68 Forest Grove Ore  
**FORGEWELD** Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
**FORMFREE** Mosaic Tile Co 1949 Pershing Av Zanesville Ohio  
**FORMULA J** Johnson (J W) Co 3100 W Randolph Bellwood Ill  
**FORMULA 602** Penetone Co 74 Hudson Av Tenafly NJ  
**FORMULA 640** Haynes Prods Co 4007 Farnam Omaha 3 Neb  
**4500 LINE** Sargent & Co 45 Water New Haven 9 Conn

**40-40** M Scott & Sons Co Marysville Ohio  
**FRANKLIN LIQUID HIDE GLUE** Franklin Glue Co 119 W Chestnut Columbus 4 Ohio  
**FRANTZ** Frantz Mfg Co 301 W 3rd Sterling Ill  
**FREMONT** Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
**FREMONT PRESTEP** Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
**FREMONT SOFT-GLO** Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
**FREMONT SUPREME** Fremont Rubber Co 350 McPherson Hwy Fremont Ohio  
**FRENCH LOCK** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**FRENCH PROVINCIAL** Masury (John W) & Son Inc 1700 Bayward Baltimore 30 Md  
**FRESH-AIR MAKER** Schwitzer-Cummins Co 1125 Massachusetts Av Indianapolis Ind  
**FRICTEX** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**FRICITION-MATIC** Boice-Crane Co 930 W Central Av Toledo 6 Ohio  
**FRIDEN** Friden Calculating Machine Co Inc 2350 Washington San Leandro Cal  
**FRIEG-A-FIRE** Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo  
**FROZEN HEAT** Robeson Cutlery Co Inc 3646 Case Perry NY  
**FRYCHEX** Astrup Co 2937 W 25th Cleveland 13 Ohio  
**FULITE** Schacht Associates Inc 1175 E 156th New York 59 NY  
**FULLER BRIKARIER** Builders Material Inc 601 Third Se Cedar Rapids Iowa  
**FULLER BRIKARIER** Fuller Mfg Co 2 RR Newhall Iowa  
**FULTON** Variety Mfg & Engineer Co 810 W Fulton Chicago 7 Ill  
**FURLATH** Inland Steel Prods Co Box 393 Milwaukee 1 Wis  
**FURNAS-CRETE** Mexico Refractories Co Love & Cole Mexico Mo  
**FYNAL-KOLOR** Creeo-Dipt Co Inc 986 Oliver North Tonawanda NY  
**FYNAL-KOLOR** Weatherbest Corp 986 Oliver North Tonawanda NY  
**FYNAL-KOTE** Creeo-Dipt Co Inc 986 Oliver North Tonawanda NY  
**FYR-FIRE** Weatherbest Corp 986 Oliver North Tonawanda NY  
**FYRGARD** Richmond Fireproof Door Co Box 334 Richmond Ind

## G

**GE** General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
**G-E TEXTOLITE** Roddis Plywood Corp 1155 Palmetto Marshfield Wis  
**GAIR-LOCK** Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich  
**GALVA-NITE** Ford Roofing Prods Co 188 W Randolph Chicago 1 Ill  
**GALVANUM** Vita-Var Corp 10 Commerce Newark NJ  
**GARCY** Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
**GAR-SEE-LITE** Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
**GAS-A-FIRE** Automatic Firing Corp 4417 Oleatha Av St Louis 16 Mo  
**GASAVER** Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio  
**GASAVER DELUXE FLO-WARM** Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio  
**GAS FLO-WARM** Williamson Heater Co 3500 Madison Rd Cincinnati 9 Ohio  
**GATE CITY** Gate City Sash & Door Co 15 SW Third Av Fort Lauderdale Fla  
**GEE-VEE-LINE** Haslett Chute & Conveyor Co 717 Brower Av Oaks 1 Pa  
**GEHL** Eddy Stoker Corp 4713-19 W North Av Chicago Ill  
**GEM** Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa  
**GEM** Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
**GEM Mansfield** Sanitary Pottery Inc Perrysville Ohio  
**GEM Marlow** Pumps Box 566 Ridgewood NJ  
**GEM Richhill** Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio  
**GEMCO** Moore (Goodloe E) Inc Box 846 Danville Ill  
**GENERAL** General Floorcraft Inc 421 Hudson New York 14 NY  
**GENERAL** General Hardware Mfg Co Inc 80 White New York 13 NY  
**GENERAL AUTOMATIC** General Automatic Prods Corp 2300 Sinclair Lane Baltimore 13 Md  
**GENERAL ELECTRIC** General Electric Co Air Conditioning Div 5 Lawrence Bloomfield NJ  
**GENERAL ELECTRIC** General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  
**GENERAL GIBALTAR** General Plywood Corp 3131 W Market Louisville Ky

**GENERAL QUICK AID** General Detroit Corp 2272 E Jefferson Detroit 7 Mich  
**GENCO TOOLS** 1830 N Kostner Av Chicago 39 Ill  
**GENUINE STILLSON** Walworth Co 60 E 42nd New York 17 NY  
**GENUWOOD** Parkwood Corp 24 Water Wakefield Mass  
**GERMANTOWN** Griffith Tool Wks Second & Duncannon Av Philadelphia 20 Pa  
**GETTY** Getty (H S) & Co Inc 3348 N 10th Philadelphia 19 Pa  
**GIANT ROLLER** Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
**GIBBALTAR** Flat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
**GIBSON** Gibson Refrigerator Co 515-615 W Williams Greenville Mich  
**GILBARCO** Gilbert & Barker Mfg Co Cold Springs Av West Springfield Mass  
**GILLEN** Gillen (J L) Co 12202 Wormer Av Detroit 28 Mich  
**GILSALUME** United Gilsolite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**GILSON** Gilson Bros Co Box 315 Fredonia Wis  
**GLAMOUR** Farley & Loetscher Mfg Co Dubuque Iowa  
**GLASSIRON** Wolverine Porcelain Enameling Co 3350 Scotten Av Detroit 10 Mich  
**GLASOLIER** Glasolier Co 307-09 Sixth Bradock Pa  
**GLASS MAT** Angier Corp Fountain St Framingham Mass  
**GLASS-O-NET** Flexo-O-Glass 1100 N Cicero Chicago 51 Ill  
**GLAS SURFACED** Kirlin Co 3435 E Jefferson Av Detroit 7 Mich  
**GLATEX** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**GLAZECOAT** Johns-Manville 22 E 40th New York 16 NY  
**GLAZOL** United Gilsolite Laboratories 1396 Jefferson Av Scranton 1 Pa  
**GLIEDURA SOIL-PROOF WALLCOVERINGS** Imperial Paper & Color Corp Glens Falls NY  
**GLENWOOD** Glenwood Range Co 300 W Water Taunton Mass  
**GLIDE** Glide Windows Inc 7463 Varna Av North Hollywood Cal  
**GLIDE FRANTZ** Mfg Co 301 W 3rd Sterling Ill  
**GLIDE-AWAY** Farley & Loetscher Mfg Co Dubuque Iowa  
**GLOBEHOOD** Globe Paint Wks Inc Market Williamsport Pa  
**GLOMASTER** Fryne & Co Inc 140 N Towne Pomona Cal  
**GLONAMEL** Globe Paint Works Inc 202 Market Williamsport Pa  
**GLOSTONE** Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
**GLOWOOD** De Jong Inc 34-23 36th Long Island City 1 NY  
**GLUD-BOARD** Nashotah Moulding & Mfg Co Nashotah Wis  
**GLUINE** Consumers Glue Co 1515 Hadley St Louis 6 Mo  
**GODER** Goder Incinerator Corp 407 S Dearborn Chicago 5 Ill  
**GOLD SEAL** Congoleum-Nairn Inc 195 Belgrave Dr Kearny NJ  
**GOLD SEAL** Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
**GOLD SEAL** Reese Metal Weather Strip Co 712 Park Av Minneapolis Minn  
**GOLD STRIPE** Pittsburgh Plate Glass Co 632 Ft Duquesne Blvd Pittsburgh 22 Pa  
**GOLD TIP** Fletcher-Terry Co 437 South Forestville Tenn  
**GOLDEN KEY HOMES** Prefabricators Inc Annapolis Junction Howard County Md  
**GON** Tilette Cement Co Inc 401 Lafayette New York 3 NY  
**GOODYEAR** Goodyear Tire & Rubber Co 1485 E Archwood Av Akron 16 Ohio  
**GOSSETT** Kees (F D) Mfg Co 700 Park Av Beatrice Neb  
**GOTHIC OAK** Parkay Inc 5000 Crittenden Dr Louisville 9 Ky  
**GRABLER** Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio  
**GRACELINE** Speakman Co 30th & Spruce Wilmington 99 Del  
**GRAF-KITTANNING** Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
**GRAINGLO** Puget Sound Plywood Inc 230 E "F" St Tacoma Wash  
**GRAIN-TITE** Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
**GRAND** Sunray Stove Co Grand Division 2323 E 67th Cleveland 4 Ohio  
**GRAND PRIZE** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**GRAND RAPIDS** Grand Rapids Hdwe Co 560 Eleventh NW Grand Rapids 2 Mich  
**GRANI-LITE** Wallace Mfg Co 10th & Fayette North Kansas City Mo  
**GRANITEX** Mosaic Tile Co 1949 Pershing Av Zanesville Ohio  
**GRAPHOTYPE** Addressograph - Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
**GRATELITE** Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo  
**GRAVITY** Standard Conveyor Co 315 NW Second North St Paul 9 Minn  
**GRAYLITE** Insulate Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
**GRAYS HARBOR** Mackie Mill Co Westport Route Aberdeen Wash  
**GRAYSTONE** Graystone Concrete Prods Co 134 Nickerson Seattle 9 Wash

**GREEN RIVER** Russell Harrington Cutlery Co 44 River Southbridge Mass  
**GREEN-STRIFE** Clover Mfg Co 333 Main Norwalk Conn  
**GREENLEE** Greenlee Bros & Co 2136 Twelfth Rockford Ill  
**GREENLEE** Greenlee Tool Co 2136 Twelfth Rockford Ill  
**GREEN TWEED** Slaymaker Lock Co 115 S West End Av Lancaster Pa  
**GREGGCO** Gregg Prods Co 646 Chestnut SW Grand Rapids 2 Mich  
**GRID** Murray (D J) Mfg Co 1024 Third Wausau Wis  
**GRIFFIN** Griffin Mfg Co Cherry & Huron Erie 6 Pa  
**GRILLADIER** Bennett-Ireland Inc 23 State Norwich NY  
**GRILLCRAFT** Grillcraft Co 1067 St Clair Av St Paul 5 Minn  
**GRIP-O-MATIC** Owatonna Tool Co 341 Cedar Owatonna Minn  
**GRIP-SNIP** Sargent & Co 45 Water New Haven 9 Conn  
**GRIT CLOTH** Bay State Abrasive Prods Co Union St Westboro Mass  
**GROOVEMASTER** Western Saw Mfrs Inc 1842 W Washington Blvd Los Angeles Cal  
**GROUTEX** Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
**GUARD** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**GULFSPRAY** Binswanger & Co 207 N Main Houston 1 Tex  
**GULFSPRAY** Gulf Oil Corp Grant & Seventh Pittsburgh Pa  
**GULF STREAM** Aldrich Co Wyoming Ill  
**GULF TRAK** Gulf Oil Corp Grant & Seventh Pittsburgh Pa  
**GUM-A-TUB** Protectub Inc 71 Ludlow New York 2 NY  
**GUTH FAN** Guth (Edwin F) Co 2615 Washington Blvd St Louis 3 Mo  
**GYP-C-DOODLE** Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa  
**GYP-C-HORSIA** Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa  
**GYP-C-JACK** Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa  
**GYP-C-PROP** Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa  
**GYP-C-TOTER** Gypsum Ceiling Jack Co 113 22nd NE Cedar Rapids Iowa  
**GYPSTEEL** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa

## H

**H & C Hart & Cooley** Mfg Co 500 E Eighth Holland Mich  
**H & H Arrow-Hart & Hegeman** Electric Co 103 Hawthorn Hartford 6 Conn  
**H-C-H** Haynes Prods Co 4007 Farnam Omaha 3 Neb  
**HAGER** Hager (C) & Sons Hinge Mfg Co 139 Victor St Louis 4 Mo  
**HAKO PRODUCTS** Hachmeister Inc Box 357 Pittsburgh 30 Pa  
**HALIDE LEAK DETECTOR** Velocity Power Tool Co 201 N Bradock Av Pittsburgh 8 Pa  
**HAL LEVEL** Hall Level & Mfg Wks 1119 E 4th Austin Tex  
**HALL-MACK** Hall-Mack Co 1344 W Washington Blvd Los Angeles 7 Cal  
**HALTS-RUST** Steeleco Mfg Co 3418 Gratiot St Louis 3 Mo  
**HAMILTON** Hamilton Mfg Co 1316 Eighteenth Two Rivers Wis  
**HAMLIN** Hamlin Prods Inc Box 2016 Little Rock Ark  
**HAMMER HEAD** Hyde Mfg Co Eastford & Clemence Southbridge Mass  
**HANCOCK** Hancock Iron Works 52 W Pike Pontiac Mich  
**HANDBELT** Standard Conveyor Co 315 NW Second North St Paul 9 Minn  
**HAND-HACK** Lipe-Rollway Corp 806 Emerson Av Syracuse 1 NY  
**HANDPIILER** Standard Conveyor Co 315 NW Second North St Paul 9 Minn  
**HAND-O-MATIC** Crofoot Mfg Co 217 Evergreen Mount Prospect Ill  
**HANDY** Handy Mfg Co 2432 Lawrence Av Chicago 25 Ill  
**HANDY SPEED-TRU** Handy Mfg Co 2432 Lawrence Av Chicago 25 Ill  
**HANLEY** Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
**HANSONITE** Hansson (Elof) Inc 220 E 42nd New York 17 NY  
**HANSONTONE** Hansson (Elof) Inc 220 E 42nd New York 17 NY  
**HARBORITE** Harbor Plywood Corp Box 940 Aberdeen Wash  
**HARCO** Veach-May-Wilson Inc Alcon Tenn  
**HARCOL** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**HARCRAFT** Harvey Machine Co Inc 19200 S Western Av Torrance Cal  
**HARDPLY** United States Plywood Corp 55 W 44th New York 36 NY  
**HARD-TIP** Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio  
**HARD-TUNG** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**HARDWICK** Hardwick Stove Co Cleveland Tenn  
**HARDER-FREEZ** Tyler Refrigeration Corp Lake St Niles Mich  
**HARGRAVE** Cincinnati Tool Co 1946 Waverly Av Cincinnati 12 Ohio

**HARMONITONE** Mosaic Tile Co 1949 Pershing Av Zanesville Ohio  
**HARRINGTON** Eddy Stoker Corp 4713-19 W North Av Chicago Ill  
**HARRINGTON** Russell Harrington Cutlery Co 44 River Southbridge Mass  
**HARRIS** Harris Mfg Co Grover at Walnut Johnson City Tenn  
**HARTSHORN** Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
**HASKO** Haskelite Mfg Corp 701 Ann NW Grand Rapids Mich  
**HAWK SPREAD** Ohio Hydrate & Supply Co Woodville Ohio  
**HAYDEN** Hayden Twist Drill Co 8626 Lyndon Av Detroit 21 Mich  
**HAYDEN FLUTELESS** Hayden Twist Drill Co 8626 Lyndon Av Detroit 21 Mich  
**HAYES** Gerber Plumbing Fixtures 232 N Clark Chicago Ill  
**HAYES** Hayes Adhesives Co Inc 1770 Canalport Av Chicago 16 Ill  
**HAYPROC** Haynes Prods Co 4007 Farnam Omaha 3 Neb  
**HAZARD** Hazard Insulated Wire Wks Div Okonite Co 1898 Hazle Wilkes Barre Pa  
**HEATILATOR** Heatilator Inc 661 E Brighton Av Syracuse 5 NY  
**HEATMASTER** Combustion Engineering Inc 200 Madison Av New York 16 NY  
**HEATMORE** Heatmore Inc 738 Broadway New York 3 NY  
**HEAT-PAK** Aldrich Co Wyoming Ill  
**HEAT-REM** Speco Inc 7308 Associate Av Cleveland 9 Ohio  
**HEATWAY** Stokermatic Co 1610 Industrial Rd Lake City Utah  
**HEAVY TAB** Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
**HEINEMANN** Heinemann (F) Saw & Mfg Co 2017 Navarre Rd SW Canton 6 Ohio  
**HELLER** Heller Bros Co Heller Dr Newcomerstown Ohio  
**HELLER** International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
**HELMET HEAD** Boice-Crane Co 930 W Central Av Toledo 6 Ohio  
**HELIX** Hillwood Mfg Co 21700 St Clair Av Cleveland 17 Ohio  
**HENDY** Henderson Furnace & Mfg Corp 3075 Gravenstein Hwy S Sebastopol Cal  
**HERCULES** Bache (Semon) & Co 636 Greenwich New York 14 NY  
**HERCULES** Ohio Can & Crown Co 16th & Harsh Massillon Ohio  
**HERCULES** Sargent & Co 45 Water New Haven 9 Conn  
**HERCULES** True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
**HERCULITE** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**HERCUL-LITE** Wessels Co 1625 E Euclid Av Detroit 11 Mich  
**HERCULOCK** Independent Lock Co 1950 Cleghorn Fitchburg Mass  
**HERMAN NELSON** Herman Nelson 215 Central Av Louisville Ky  
**HERMITAGE** Leathers (A H) Mfg Co Dickson Tenn  
**HERRINGBONE** Merwin Mfg Co 19th & Germantown Erie Pa  
**HEVI-LIFT** Harnischfeger Corp 4400 W National Av Milwaukee 46 Wis  
**HEXACON** Hexacon Electric Co 161 W Clay Av Roselle Park NJ  
**HEXCAST** US Expansion Bolt Co State St & PRR York Pa  
**HEX-LOCK** Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich  
**HEX-NUT** Williams Form Engineering Corp 1501 Madison Av SE Grand Rapids Mich  
**HEYER** Heyer Sales Co Box H Milledgeville Ill  
**HI-CAP** Rempe Co 340 N Sacramento Blvd Chicago 12 Ill  
**HI-DEGREE** Chesaman-Elliott Co Inc 645 Kent Av Brooklyn 11 NY  
**HI-LINE** Lufkin Rule Co 1730 Hess Saginaw Mich  
**HI-LITE** Farley & Loetscher Mfg Co Dubuque Iowa  
**HI-LO** Concrete Transport Mixer Co 4985 Fyler Av St Louis 9 Mo  
**HI-LO** Wolfe Prods Inc 71 Elinor Av Akron 5 Ohio  
**HI-POWER** Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
**HI-SPEED** Baughman Mfg Co Inc Arch & Shipman Rd Jerseyville Ill  
**HI-SPEED** Clover Mfg Co 333 Main Norwalk Conn  
**HI-SPEED** Louisville Cement Co 501 S Second Louisville 2 Ky  
**HIAWATHA** Mohawk Flush Doors Inc 3383 Hammond Av Elkhart Ind  
**HICO** GIDERS Webrb Steel Corp 120 Broadway New York 5 NY  
**HIDALIFT** Turner & Seymour Mfg Co Lawton St Torrington Conn  
**HIDEAWAY** American Bed & Spring Co 5255 Delmar St Louis Mo  
**HIDE-A-WEIGH** Conant Bros Co 40 Howard Somerville 44 Mass  
**HIDE-N-SEAL** Sonneborn (L) Bros Inc Building Prods Div 404 Fourth Av New York 16 NY  
**HIGGINS** Higgins Ink Co Inc 271 Ninth Brooklyn 15 NY  
**HIGHLAND** Hulbert (Wm) Mill Co 12th & Norton Everett Wash  
**HIGH SPEED** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**HILCO** Hilco Engineering Co Genoa City Wis

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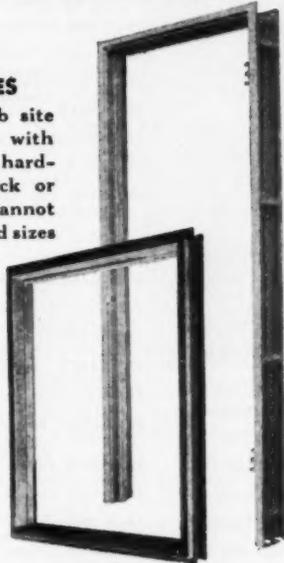
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Diameter \_\_\_\_\_ No. 158-M Magnesium  
Quantity \_\_\_\_\_ Mortar Hod  
At price above \_\_\_\_\_ Each, \$15.95

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

**HILL-SMITH SYSTEMS** Hill-Smith Termit Control Co 1200 Commerce Title Bldg Memphis Tenn

**HILLOSET** Mexico Refractories Co Love & Cole Mexico Mo

**HIRSCHALL** Hirsch (S A) Mfg Co 8051 Central Pk Skokie Ill

**HIRSHLINE** Hirsch (S A) Mfg Co 8051 Central Pk Skokie Ill

**HIRSHLOK** Hirsch (S A) Mfg Co 8051 Central Pk Skokie Ill

**HOB-CHEF** Dearborn Stove Co 1700 W Commerce Dallas Tex

**HODGSON HOUSES** Hodgson (E F) Co Inc Dover Mass

**HOE** Hoe (R) & Co Inc 910 E 138th New York 54 NY

**HOE-BOY** Construction Machinery Cos 420 Vinton Waterloo Iowa

**HOIST-ALL** Coffing Hoist Co 800 Walters Danville Ill

**HOITSMA** Hoitama (P) Adjustable Scaffold Bracket Co 261-65 E 23rd Paterson NJ

**HOLDFAST** Gardner Wire Co 1325 S Cicero Av Chicago 50 Ill

**HOLDEAST** Silver Lake Co 60 Batterymarch Boston 10 Mass

**HOLEGRIP FASTENER** Fabricated Prods Co Water St West Newton Pa

**HOLFORD** Hope's Windows Inc 84 Hopkins Av Jamestown NY

**HOLLAND** DeJong Inc 34-23 36th Long Island City 1 NY

**HOLLANDS PATTERN WHEELS** Collier Bros 420 S St Joseph South Bend 1 Ind

**HOLLINGSHEAD** Hollingshead (R M) Corp 840 Cooper Camden 2 NJ

**HOLORIB** Detroit Steel Prods Co 2250 E Grand Blvd Detroit 11 Mich

**HOME-WAY** GBH-Way Homes Inc Walnut Ill

**HOMEGARD** Russell & Erwin Div American Hoe Corp 102 Washington New Britain Conn

**HOMES FOR LIVING** Architectural Plan Service Inc 89-51 164th Jamaica 3 NY

**HOMESHIELD** American Screen Prods Co 807 NW 20th Miami 37 Fla

**HOMESHIELD** Plymouth Metal Prods Co 505 W Harrison Plymouth Ind

**HOMESTEAD** Woodware Prods Corp 122 N 7th St Louis 1 Mo

**HOMESTEAD COTTAGE** Texas Housing Co 9001 Denton Dr Dallas 9 Tex

**HOMETTE** Texas Housing Co 9001 Denton Dr Dallas 9 Tex

**HOMOFLEX** Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willette Passaic NJ

**HOMOGRAP** Homograf 11711 E Eight Mile East Detroit Mich

**HONEYCUTT** International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo

**HOOKER** Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill

**HOOVER** Hoover Co Electric Motor Div 700 Brook Av North Plainfield NJ

**HORN HAND** Cyclone Seeder Co Urbana Ind

**HOUGH** International Harvester Co 180 N Michigan Av Chicago 1 Ill

**HOUR SEAL** O'Brien Corp 101 N Johnson South Bend 21 Ind

**HOUSEMART** Roodis Plywood Corp 1155 Palmetto Marshfield Wis

**HOUSE PLAN BOOKS** Nationwide House Plan Service 17 Hewes Providence RI

**HOWARD** Howard Mfg Co Kent Wash

**HOWELL** Kol-Master Corp 124 Walberg Oregon Ill

**HOW-ELL-DOR** Howell Mfg Co Cottman & Hasbrook Av Philadelphia 11 Pa

**HOW-ELL-TITE** Howell Mfg Co Cottman & Hasbrook Av Philadelphia 11 Pa

**HUDEE** Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill

**HUNT PROCESS** Carter-Waters Corp 2440 Pennway Kansas City Mo

**HUNTINGTON PATTERN DRESSERS** Collier Bros 420 S St Joseph South Bend 1 Ind

**HURLINGE** Hardware Prods Co Inc 42 Broadway New York 4 NY

**HUSHKOTE** Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio

**HUSKY** Zoss Ladder & Mfg Co 4901 SW Macadam Av Portland 1 Ore

**HUTTIG BY-PASSING DOOR UNIT** Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo

**HUTTIG GLIDING DOOR UNIT** Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo

**HUTTIG ROLL-LIFT** Huttig Sash & Door Co 1206 S Vandeventer Av St Louis 10 Mo

**HY-DUTY** Schweitzer-Cummins Co 1125 Massachusetts Av Indianapolis Ind

**HY-SET** Mexico Refractories Co Love & Cole Mexico Mo

**HY-TENSO SAFE TREAD** Safe Tread Co Inc 30 Vesey New York 7 NY

**HYCASTE** Premax Prods Div Chisholm-Ryder Co Inc Highland & College Av Niagara Falls NY

**HYDRA-POWER** Perfection Steel Body Co Gallion Ohio

**HYDRO-CHECK** Spray-O-Bond Co 2225 N Humboldt Av Milwaukee 12 Wis

**HYDROCID** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY

**HYDROCID** S X Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY

**HYDROCID** COLORCOAT Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY

**HYDROGRAD** Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa

**HYDROGATE** Marion Metal Prods Co Cheney Av at Otis Marion Ohio

**HYDROHOT** Secco Corp 860 Cross Pottstown Pa

**HYDRONON** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY

**HYDROTHERM** Hook & Ackerman Inc 9 E 40th New York 16 NY

**HYLITE** Carbola Chemical Co 46 Harris Rd Natural Bridge NY

**HYPRO** Hypro Engineering Inc 404 Washington Av N Minneapolis 1 Minn

**HYSTAWAY** Hyster Co 2902 NE Clakamas Portland 8 Ore

**I-R-C** Mexico Refractories Co Love & Cole Mexico Mo

**ICY-FLO** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn

**IDEAL** Ideal Co 24th & Mary Waco Tex

**IDEAL** Ideal Cabinet Corp 2903 Central Evanston Ill

**IDEAL** Ideal Cement Co Colorado Div 500 Denver National Bldg Denver Colo

**IDEAL** National Mfg & Stamping Co 2425 Dean Av Des Moines Iowa

**IDEAL** Universal Hoist & Mfg Co Cedar Falls Iowa

**IDEAL ALL-WETHER** Ideal Co 24th & Mary Waco Tex

**IDEAL FRAME-N-ALL** Ideal Co 24th & Mary Waco Tex

**IDEAL HYDROPLASTIC** Ideal Cement Co Colorado Div 500 Denver National Bldg Denver Colo

**IDEAL ONE BORE** Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn

**IDEAL QUIXSTRENGTH** Ideal Cement Co Colorado Div 500 Denver National Bldg Denver Colo

**IDEALOX** Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn

**IGAS** Sika Chemical Corp 35 Gregory Av Passaic NJ

**ILCO** Independent Lock Co 1950 Cleghorn Fitchburg Mass

**ILCO** Indiana Limestone Co Inc 405 N "I" Box 72 Bedford Ind

**ILLINOIS** Illinois Lock Co 822 S Ada Chicago 7 Ill

**IMPERIAL** United States Gypsum Co 300 W Adams Chicago 6 Ill

**IMPERIAL** Wilson-Imperial Co 115 Chestnut Newark 5 NJ

**IMPERIAL NO-WASH** Wilson-Imperial Co 115 Chestnut Newark 5 NJ

**IMPERVITEX** Chase Bag Co 309 W Jackson Blvd Chicago 11 Ill

**IMPERVO ENAMEL** Benjamin Moore & Co 511 Canal New York 13 NY

**IMPROVED WALCO** Walworth Co 60 E 42nd New York 17 NY

**INAVENT** Pryme & Co Inc 140 N Towne Pomona Cal

**INCINOR** Incinerator Div Bowser Inc 4209 Sycamore Cairo Ill

**INCLINE TRACK** King Mfg Corp 3158 W Chicago Av Chicago 22 Ill

**INDEPENDENT** Stokermatic Co 1610 Industrial Rd Salt Lake City Utah

**INDUSPRAY** Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich

**INDUSPRAYOR** Tanglefoot Co 314 Straight Av SW Grand Rapids 4 Mich

**INLAND HI-BOND** Inland Steel Co 38 S Dearborn Chicago 3 Ill

**INLAND HOMES** Inland Homes Corp 501 S College Piqua Ohio

**INLAND TI-CO** Inland Steel Co 38 S Dearborn Chicago 3 Ill

**INLAND TI-NAMEL** Inland Steel Co 38 S Dearborn Chicago 3 Ill

**INNER-SEAL** Bridgeport Fabrics Inc 195 Holland Av Bridgeport 1 Conn

**INSECTOCUTOR** Detjen Corp Electrocuting Fly Screen Div Skidmore Rd Freedom Plains Pleasant Valley NY

**INSELBRIK** Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa

**INSELSTONE** Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa

**INSELSYDE** Insel-Plastics Inc 2120 W 138th Blue Island Ill

**INSELSYDE** Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa

**INSELUM** Mastic Asphalt Corp 131 S Taylor South Bend 24 Ind

**INSELWOOD** Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa

**IN-SINK-ERATOR** In-Sink-Erator Mfg Co 1225 14th Racine Wis

**INSL-COTTON** Taylor Bedding Mfg Co Taylor Tex

**INSULAG** Quigley Co Inc 527 Fifth Av New York 17 NY

**INSULAIRE** Industrial Prods Co Inc Boswell St Mt Pleasant Tenn

**INSULGLO** Troyer Driveway Service 2157 S Park Av Buffalo 20 NY

**INSULROCK** Smith & Kansler Corp E Linden Av Linden NJ

**INSULUX GLASS BLOCK** Kimble Glass Co Subsid Owens-Illinois-Glass Co Box 1035-1036 Toledo 1 Ohio

**INSULUX PANEL-VENT** Kimble Glass Co Subsid Owens-Illinois-Glass Co Box 1035-1036 Toledo 1 Ohio

**INT-DEPA** Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash

**INTERCOTE** National Chemical & Mfg Co 3617 S May Chicago 9 Ill

**INTEGRALOCK** Sargent & Co 45 Water New Haven 9 Conn

**INTERNATIONAL** International Harvester Co 180 N Michigan Av Chicago 1 Ill

**INTERNATIONAL** International Oil Burner Co 3800 Park Av St Louis 10 Mo

**INTERNATIONAL** International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo

**INTERNATIONAL SAFETY WINDOW** International Safety Window Corp 121-27 30th Brooklyn 32 NY

**INVERSAIRE** Berger Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa

**IOWA** Woodford Hydrant Co 1626 Delaware Av Des Moines Iowa

**IRIDITE** Pennwoven Inc 70 E 45th New York 17 NY

**IRONBOND** Robbins Flooring Co Reiz City Mich

**IRON-COTE** Sullivan Co 212 E Trigg Av Memphis Tenn

**IRON FIREMAN** Iron Fireman Mfg Co 3170 W 106th Cleveland 11 Ohio

**IRONRITE** Ironrite Inc 332 Cass Av Mount Clemens Mich

**IRONWOOD** Shuford Mills Inc Drawer 340 Hickory NC

**IVORY** United States Gypsum Co 300 W Adams Chicago 6 Ill

**IVORY-X** Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY

**J M J M J Industries** Inc 226 Centerville Av Belleville Ill

**J N BRAND** Cook (F C) & Co 1208-13 Munsey Bldg Baltimore 2 Md

**JACK FROST** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY

**JACKLIFT** Lewis-Shepard Prods Inc 125 Walnut Watertown Mass

**JACKMANCO** Jackson Mfg Co Lochiel Rd Harrisburg Pa

**JACK-MASTER** Imperial Knife Associated Companies Inc 1776 Broadway New York 19 NY

**JACKSON** Gerber Plumbing Fixtures 232 N Clark Chicago 11 Ill

**JACKSON** Jackson Mfg Co Lochiel Rd Harrisburg Pa

**JACKSON** Jackson Prods Co 3703 E 93rd Cleveland 5 Ohio

**JACKSON** Vulcan Electric Co 88 Holten Danvers Mass

**JACKTRACTOR** Lewis-Shepard Prods Inc 125 Walnut Watertown Mass

**JAL-O-VENT** Superior Window Co 5300 NW 37th Av Miami Fla

**JALOUSIE** Vulcan Metal Prods 2801 6th Av S Birmingham Ala

**JALTREAD CHECKERED FLOOR PLATE** Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa

**JAMBEX** Beadex Sales Inc 4615 Eighth Av NW Seattle 7 Wash

**JANITROL** Surface Combustion Corp 2375 Dorr Toledo 1 Ohio

**JAY BEE** Mexico Refractories Co Love & Cole Mexico Mo

**JECT-O-VALVE** Swartwout Co 18511 Euclid Av Cleveland 12 Ohio

**JET** Jet Tool Co Box 247 Lemon Grove Cal

**JETCRETE** Construction Machinery Cos Vinton Waterloo Iowa

**JET E-Z** Jet Tool Co Box 247 Lemon Grove Cal

**JETO** Lake Shore Engineering Co E Magnetic St Inor Mountain Mich

**JET-O-MATIC** Conids Pumps Inc 75 Fall Seneca Falls NY

**JEWEL** Master Lock Co 2600 N 32nd Milwaukee 45 Wis

**JEWEL** Reliable Metal Novelty Co Inc 25 Elm Av Mount Vernon NY

**JEWETT** Jewett Refrigerator Co Inc 2 Letchworth Buffalo 13 NY

**JIFFY** Angel Novelty Co 340 Broad Fitchburg Mass

**JIFFY** Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill

**JIFFY** Carlson (A B) & Co 349 Woodlawn Av Aurora 4 Ill

**JIFFY** Miner-Hillard Milling Co 826 Second Natl Bank Wilkes Barre Pa

**JIFFY** JOINT Cannelton Sewer Pipe Co 4th & Wash Cannelton Ind

**JOHN DEERE** Deere & Co Moline Ill

**JOHNSONITE** Johnson Plastic Corp Box 212 Chagrin Falls Ohio

**JOINTAPE** Marvan Corp Box 219 West Hartford Conn

**JOINT NAILS** Wash Co Inc 720 N Bowman Av Danville Ill

**JOINT SAVER** Cannelton Sewer Pipe Co 4th & Wash Cannelton Ind

**JORDON** Jordan Refrigerator Co 58th & Grays Av Philadelphia 43 Pa

**JOURNEYMAN** Dresden Mfg Co 2375 Walnut Av Long Beach 6 Cal

**JUMBO** Wood (Gar) Industries Inc Michigan Blvd Wayne Mich

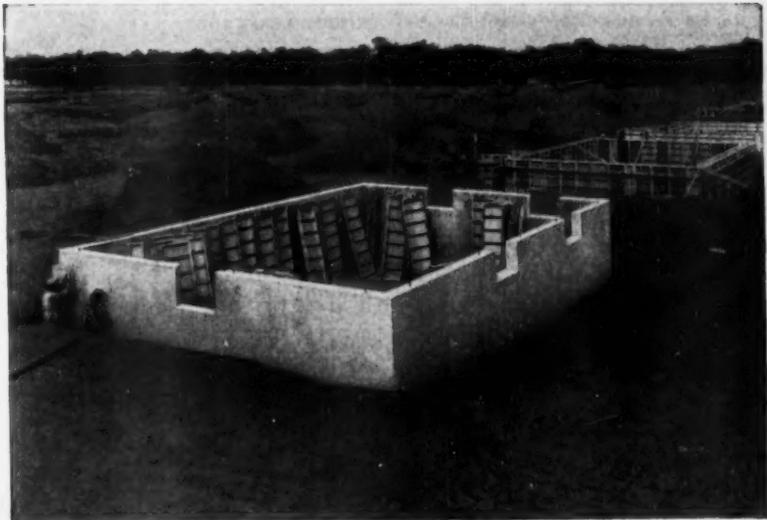
**JUNIOR BEAMS** Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa

# SYMONS FORMS SPEED WORK IN HOME PROGRAM TO EASE CRISIS IN WAUKEGAN, ILLINOIS

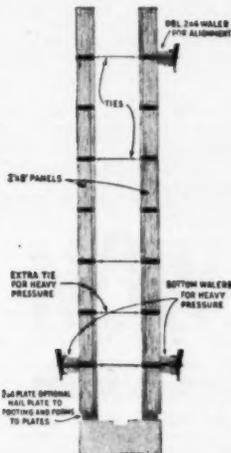
## Home Builder Plans To Build 10 Houses A Day During Good Weather

The first units, in a \$14,000,000 building program, through which 1,346 homes will be built are well underway. Each home will have a FULL BASEMENT. Symons Forms are being used for the foundations because they can be erected and stripped faster, are safer, require a minimum amount of walling and bracing, and produce better looking walls.

Each crew will use two sets of forms. They strip and erect one set of forms per day. This foundation will be poured the following day, while the other set of forms is stripped and then erected. After stripping, the exposed ties are broken back, exterior walls asphalt covered below grade and back fill is placed around walls.



First of foundations put in by Centex Construction Company of Dallas, Texas, General Contractors for the Waukegan Home Project. Note Symons Forms and the minimum walling and bracing required.



Section showing inside and outside forms ready to pour.

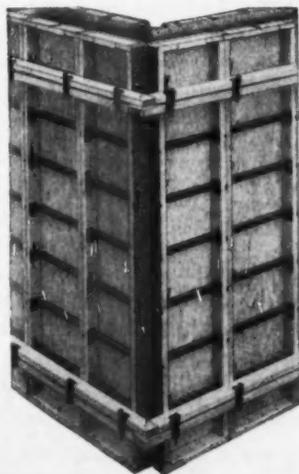
The basement slab is poured before the house walls are erected. This allows cleaner and more efficient handling of materials during the construction of the house.

Special 7' forms were built for this project. Standard sizes are 6' and 8'. Concrete is poured to the full height of the forms. Considerable time is saved and a better looking and more level wall is achieved.

Symons Engineering and Customer Service are also playing an important role in this project. Our Engineering Staff furnished complete form layouts and job cost sheets on the form work—at no charge to the contractor. This service enabled the contractor to get a clear

picture of his job (its cost, bill of materials and labor saving methods). Our fieldman gives regular on-the-job service. First, by on-the-job recommendations of forms and hardware needed. Second, by showing the workmen how to set-up the forms efficiently. Third, by making special deliveries when last minute problems arise.

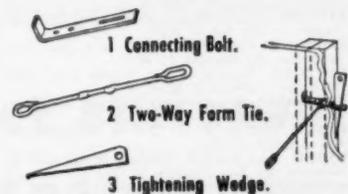
Symons Forming System includes—TWO WAY FORM TIE which holds forms securely to the required wall thickness without washers, spreaders or walers. TIGHTENING WEDGE is inserted through the slot in the connecting bolt and pulls form sides tightly together.



Inside panels join projecting ties. Forms are aligned and braced with walers.

CONNECTING BOLT which is slotted passes through edges of adjacent forms and tie loop.

### JUST 3 PIECES



Symons Forms are available on a Rental-Purchase Plan . . . with all rental charges to apply on the purchase price. Contractors throughout the country have tried this plan and like it. Send in your request for the complete facts—no charge or obligation.

#### SYMONS CLAMP & MFG. CO.

4261 Diversey Ave., Chicago 39, Ill. Dept. D-4

Please send catalog and information regarding:

Forms  Shores  Column Clamps

Name .....

Firm Name .....

Address .....

City ..... Zone ..... State .....

**JUNIOR CHANNELS** Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa  
**JUSTRITE** Justrite Mfg Co 2061 N Southport Av Chicago 14 Ill

## K

**K-D K-D Garage Door Sales** 19830 Fitzpatrick Detroit 28 Mich  
**K-D K-D Mfg Co** 526 N Plum Lancaster Pa  
**K D S Kedmont Mfg Co** Div General Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
**K-S-V Kernechen Co** 612 N Michigan Av Chicago 11 Ill  
**K-V Knappe & Vout Mfg Co** 658 Richmond NW Grand Rapids Mich  
**K & E International Twist Drill Corp** 618 Wyandotte Kansas City 5 Mo  
**K-VENIENCE Knappe & Vout Mfg Co** 658 Richmond NW Grand Rapids Mich  
**KAIBAB STONE** Western States Stone Co Box 312 Santa Clara Cal  
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**KALITE** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**KALITE** Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles Cal  
**KALITE BUG DUSTER** Agkem Inc Div Kalo Co 506 Maine Quincy Ill  
**KALITEX** United States Plywood Corp 55 W 44th New York 36 NY  
**KATO GLAZED GOLDEN ROD FACING TILE** Kalo Brick & Tile Co 1230 First Av S Fort Dodge Iowa  
**KALOK** Kaul Clay Mfg Co Spring St Box 128 Toronto Ohio  
**KANT-LEAK** Sullivan Co 212 E Trigg Av Memphis Tenn  
**KANTLEAK** Curry Steel Prods Co 417 S Spring Independence Mo  
**KARBOLITH** American Mason Safety Tread Co 125 Perry Lowell Mass  
**KARPENTER** Winsted Edge Tool Wks Winsted Conn  
**KARR** Karr Range Co 7th & Harrison Belleville Ill  
**KARRY KRANE** Hyster Co 2902 NE Clakamas Portland 8 Ore  
**KASOTA STONE** Babcock Co Kasota Minn  
**KATOLIGHT** Katolight Corp Box 491 Mankato Minn  
**KAUKIT** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**KEILSON** Bommer Spring Hinge Co Landrum SC  
**KELLY PERFECT** True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
**KELVINATOR WATER COOLER** Ebco Mfg Co 401 W Town Columbus 8 Ohio  
**KEM-GLO** Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
**KEM-GLO** Rogers Paint Prods Inc 8250 St Aubin Av Detroit 11 Mich  
**KEM-TONE** Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
**KEM-TONE** Rogers Paint Prods Inc 8250 St Aubin Av Detroit 11 Mich  
**KEMI-KAL** Sullivan Co 212 E Trigg Av Memphis Tenn  
**KEMIKO** Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
**KEMIKO AQUA-TITE** Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
**KEMIKO COL-TONE** Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
**KEMIKO TRANSEL NO. 5** Rohloff & Co 918 N Western Av Los Angeles 27 Cal  
**KENDALE** Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky  
**KENMAR** Kenmar Mfg Co Albert & Martha Philadelphia 25 Pa  
**KENNAFRAME** Kennatrack Corp Route 5 E Jackson Blvd Elkhart Ind  
**KENNAQUIDE** Kennatrack Corp Route 5 E Jackson Blvd Elkhart Ind  
**KENNALOCK** Kennatrack Corp Route 5 E Jackson Blvd Elkhart Ind  
**KENNATRACK** Kennatrack Corp Route 5 E Jackson Blvd Elkhart Ind  
**KENT** Kent Co Inc 351 Canal Rome NY  
**KENT** Speakman Co 30th & Spruce Wilmington 99 Del  
**KENTUCKY COLONEL** General Plywood Corp 3131 W Market Louisville Ky  
**KEROLECTRIC** Warner Mfg Co 801 16th Av SE Minneapolis 14 Minn  
**KESTER** Kester Solder Co 4201 Wrightwood Av Chicago 39 Ill  
**KEWASSEE** Walworth Co 60 E 42nd New York 17 NY  
**KEWANEE COTTAGE** Kewanee-Ross Corp 101 Franklin Kewanee Ill  
**KEWANEE HI-TEST** Kewanee-Ross Corp 101 Franklin Kewanee Ill  
**KEWANEE SCOTTIE JR** Kewanee-Ross Corp 101 Franklin Kewanee Ill  
**KEWANEE SOLARE-HEAT** Kewanee-Ross Corp 101 Franklin Kewanee Ill  
**KEWANEE TABASCO** Kewanee-Ross Corp 101 Franklin Kewanee Ill  
**KEYBEAD** Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill  
**KEYCORNER** Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill  
**KEY-HAK** Producers & Distributors Inc 714 S Sixth Allentown Pa

**KEYMESH** Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill  
**KEY-N KNOB** Lockwood Hdw Mfg Co Fitchburg Mass  
**KEYNOTE** Edwards Co Inc Post Rd Norwalk Conn  
**KEYSTONE** Keystone Steel & Wire Co 7000 S Adams Peoria 7 Ill  
**KEYSTONE** Standard Wire Cloth & Screen Co East & Pennsylvania RR York Pa  
**KILNOISE** Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio  
**KIMBLE GLASS TOWEL BARS** Kimble Glass Co Box 1035 Toledo Ohio  
**KIMBLE TOPLITE** Kimble Glass Co Subsidiary Owens-Ill-Glass Co Box 1035-1036 Toledo 1 Ohio  
**KIMWOOD DOOR** Hardwood Prods Corp 164 Lake Neenah Wis  
**KING HOIST** King Mfg Corp 3158 W Chicago Av Chicago 22 Ill  
**KING SIZE** Hyde Mfg Co Eastford & Clemence Southbridge Mass  
**KINGSTON** Glen-Gery Shale Brick Corp Box 182 Wyomissing Pa  
**KINNEAR ROLLING** Kinnear Mfg Co Seventh & Fields Av Columbus 16 Ohio  
**KINTRIM** Kinkand Industries Inc 5860 N Pulaski Rd Chicago 30 Ill  
**KIRK TAX CALCULATOR** Kirk Plastic Co 170 E Jefferson Blvd Los Angeles 11 Cal  
**KITCHEN AID** Hobart Mfg Co Troy Ohio  
**KITCHEN JEWELRY** American Brass Goods Co Grand Rapids Mich  
**KITCHN HANDY** Washington Steel Prods 1940 E 11th Tacoma 2 Wash  
**KITCHEN-VENTOR** Universal Blower Co 1090 S Adams Av Birmingham Mich  
**KLEARTONE** Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY  
**KLEEN-AIRE** Steel City Furnace Co Springdale Pa  
**KLEEN-EZY** Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
**KLEEN-KOTE** Kleen-Kote Co 601 W 80th Chicago 20 Ill  
**KLINGSTONE** Cleveland Gypsum Co 1276 W Third Cleveland 13 Ohio  
**KLIXON** Spencer Thermostat Div Metals & Controls Corp Attleboro Mass  
**KNIGHT** Barland Weatherstrip Material Co 1960 E 69th Cleveland 3 Ohio  
**KNO-DRAFT** Connor Engineering Corp Shelter Rock Lane Danbury Conn  
**KNOX-OUT** Pennsylvania Salt Mfg Co 453 Widener Bldg Philadelphia 7 Pa  
**KOHLER** OF KOHLER Kohler Co 44 High Kohler Wis  
**KOL-MASTER** Kol-Master Corp 124 Walberg Oregon Ill  
**KOLOR-BRITE** Martin-Senour Co 2520 S Quarry Circle 8 Ill  
**KOLTITE** Continental Screw Co 100 Mt Pleasant New Bedford Mass  
**KONSEAL** Sullivan Co 212 E Trigg Av Memphis Tenn  
**KONSET** Sullivan Co 212 E Trigg Av Memphis Tenn  
**KONTITE** Sullivan Co 212 E Trigg Av Memphis Tenn  
**KOOLPORE** Bay State Abrasive Prods Co Union St Westboro Mass  
**KOOLSHADE** Ingersoll Prod Div Borg-Warner Corp 310 S Michigan Av Chicago 4 Ill  
**KOOL-TOP** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
**KORD** Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
**KORINA** United States Plywood Corp 55 W 44th New York 36 NY  
**KORKER** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**KORKER U S** Expansion Bolt Co State St & PRR York Pa  
**KORNER** KING RCS Tools Sales Corp Box 1434 Joliet Ill  
**KOYLOCK** Parker (S) Hdw Mfg Corp 27 Ludlow New York 2 NY  
**KOVEN** Koven (L O) & Bro Inc 154 Ogden Av Jersey City 7 NJ  
**KOVERFLOR** Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 NY  
**KRAFTLE** Kraftile Co Niles Cal  
**KRAFT-KOTE** General Paint Corp 2627 Army San Francisco 19 Cal  
**KRAK-TITE** Sterling Paint & Varnish Co 184 Commercial Malden Mass  
**KUOKROME** Master Builders Co 7016 Euclid Av Cleveland 3 Ohio  
**KWICK CHANGE** Anderson (V E) Mfg Co 1515 E 18th Owensboro Ky  
**KWIKSAND SANDING BLOCKS** Kwiksand Inc 529 Merchants Rd Rochester 9 NY  
**KWIK-SEAL** Armstrong Co 1001 E 103rd Chicago 28 Ill  
**KWIKSET LOCKSETS** Kwikset Sales & Service Co 516 E Santa Ana Anaheim Cal  
**KWIK-WAY** Hart & Colet Mfg Co 500 E Eighth Holland Mich  
**KYANIDE PAINTS** Kyanide Paints Inc Second & Boston Everett 49 Mass

## L

**L C H N S W Co** 12930 Auburn Av Detroit 23 Mich  
**LCN** LCN Closers Inc 111 W Railroad Av Princeton Ill  
**L & H LECTRO HOIST** Lindemann (A J) & Hoverson Co 601 W Cleveland Av Milwaukee 15 Wis

**L-VATOR** Bosworth Mfg Co Mills Rd Avon Ohio  
**LACTON** Lacton Glue Mfg Co 611-21 Broadway New York 12 NY  
**LADSCAF** Universal Mfg Corp W New Castle Zelenople Pa  
**LAMIDALL** Woodall Industries Inc 3500 Oakton Skokie Ill  
**LAMSON** Lamson & Goodnow Mfg Co Shelburne Falls Mass  
**LAMSON** Lamson-Sessions Co 1971 W 85th Cleveland 2 Ohio  
**LANDEN QUALITY** Landen Putty Wks Inc 45 Irving Malden 48 Mass  
**LANES** 3-TY Lanebro Mfg Co 110 Main Poughkeepsie NY  
**LANGDON-ACME** Millers Falls Co Wells & Devon Greenfield Mass  
**LA PERLA** Acme Brick Co Box 425 Fort Worth Tex  
**LAPIDOLITH** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**LASTIK** Lastik Prods Co Inc 203 Iroquois Blvd Pittsburgh 13 Pa  
**LASTIKALK** Lastik Prods Co Inc 203 Iroquois Blvd Pittsburgh 13 Pa  
**LAUNDRORAT** Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa  
**LAUNDRYMASTER (R)** Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa  
**LAUNDRY QUEEN** Automatic Washer Co Newton Iowa  
**LAUREL HOMES** Green Lumber Co Magnolia St Laurel Miss  
**LAVANETTE** Tiedo Desk & Fixture Corp 1029 Ford Rd Maumee Ohio  
**LAVAX** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**LAWRENCE** Lawrence Steel Co 5746 Venice Blvd Los Angeles Cal  
**LAWRENCE TIGER BRAND** Lawrence (W W) & Co 1124 W Carson Pittsburgh 19 Pa  
**LBRITE** Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill  
**LAYTITE** Connor Lumber & Land Co Box 112 Marshfield Wis  
**LEADER** Berzer Furnace Mfg Co 5920 Centre Av Pittsburgh 6 Pa  
**LEADER** Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
**LEADER** Lafkin Inc Toledo 1730 Hess Saginaw Mich  
**LEATHERITE** Insulate Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
**LECO-FLEX LATCH** Laboratory Equipment Corp Hilltop Rd St Joseph 6 Mich  
**LECO LATCH** Laboratory Equipment Corp Hilltop Rd St Joseph 6 Mich  
**LECOCK U S** Expansion Bolt Co State St & PRR York Pa  
**LEGION** Legion Stainless Sink Corp 21-07 40th Av Long Island City 1 NY  
**LEKTRIK-AIR** Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
**LELAND MOTORS** Leland Electric Co 1501 Webster Dayton 1 Ohio  
**LENNIX** Lennox Furnace Co 200 S Twelfth Box Marshalltown Iowa  
**LENOX** American Saw & Mfg Co 67 Boylston Springfield 1 Mass  
**LESLIE LOUVERS** Leslie Welding Co Inc 2943 W Carroll Av Chicago 12 Ill  
**LEVELALL** Levelall 83 Webster Rockland Mass  
**LEVELER** Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
**LEVELINE** Calder Mfg Co 630 N Prince Lancaster 12 Pa  
**LEVERLIFT** Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
**LEVOLOR** Levolor Lorentzen Inc and Lorentzen Hdw Mfg Corp 391 W Broadway New York 12 NY  
**LIBERTY** New York Wire Cloth Co 63 Park New Canaan Conn  
**LIBERTY HOMES** Lewis Mfg Co Lafayette & Michigan Bay City Mich  
**LIFE SAVER** Knight Mfg Co 2930 S Washington Saginaw Mich  
**LIFETIME B & W** Enterprises 3521 Sweetwood Houston 19 Tex  
**LIFETIME** Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
**LIFETIME T & S** Brass & Bronze Wks Inc 32 Urban Av Westbury Long Island NY  
**LIFETIME VINYL** Robbins Floor Prods Inc Tusculum Ala  
**LIFT-O-MATIC** Wood (Gar) Industries Inc Michigan Blvd Wayne Mich  
**LIGHT AND SOUND CONDITIONING SYSTEM** Curtis Lighting Inc 6135 W 65th Chicago 38 Ill  
**LIGHT DUTY** Russell & Erwin Div American Hdw Corp 102 Washington New Britain Conn  
**LIGHTNING** Lightning Adding Machine Sales Co 234 W 37th Pl Los Angeles 7 Cal  
**LIGHTNING LINE** Fay (J A) & Egan Co 2001 Eastern Av Cincinnati 2 Ohio  
**LIGHTTOLIER** Lightlier Inc 346 Claremont Av Jersey City 5 NJ  
**LIGNOPHOL** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**LIKKETY-KUT** Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
**LIMPET** Kenstey & Mattison Co Butler Av Ambler Pa

# Quikbrik



## HOMES

### PRE-SELL THEMSELVES

**HERE'S WHY...**

*They're better built homes at a lower cost*

*Permanent beauty of face brick*

*Available in 6 rich non-fade colors*

*Lasts the life of the home*

*Increases market value of the property*

*Lower in maintenance cost*



# NOW

## READY FOR PROJECT BUILDERS

### who want better brick homes at a lower price

Quikbrik homes are sales clinchers . . . You can show and sell better built homes of fine quality brick for much less than ordinary face brick, and about the same price of frame construction with shiplap or asbestos sidings.

This rich brick, QUIKBRIK, is a scientifically developed and patented product composed of pulverized fine quality hard burned face bricks with

improving agents added. The application is easier, quicker, and more thorough than laid brick.

Astounding as it may seem, you can build more brick homes with QUIKBRIK using the same manpower and resulting in greater profits per home.

ACCEPTED BY FHA AND VA

**AMERICAN CEMENT PRODUCTS**  
7306 PURITAN AVENUE  
DETROIT 38, MICHIGAN

#### INVESTIGATE

**AMERICAN CEMENT PRODUCTS**  
7306 PURITAN AVENUE  
DETROIT 38, MICHIGAN

Please give me complete details:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zone: \_\_\_\_\_ State: \_\_\_\_\_

LINDBECK Wooster Brush Co Madison Av  
Wooster Ohio  
LINDERMAN PROCESS Muskegon Machine  
Co S Robinson Av Newburgh NY  
LINE-O-LAMPS Wiremold Co Station A Hart-  
ford 10 Conn  
LINE-TITE Berkeley Specialties Co 899 Gilman  
Berkeley 10 Cal  
LINGERWETT Wilson-Imperial Co 115 Ches-  
nut Newark 5 NJ  
LINHOLD Commercial Paste Co Bottles &  
Michigan Columbus 8 Ohio  
LINSOYA Inter-State Oil Co 250 S Fifth Kan-  
sas City 1 Kan  
LION BRAND Parkay Inc 500 Crittenden Dr  
Louisville 9 Ky  
LION MITER MASTER Footstuck Corp 59  
Sammis Pl Stratford Conn  
LION UNIVERSAL TRIMMER Footstuck  
Corp 59 Sammis Pl Stratford Conn  
LIPPETT Lippert (E T) Saw Co 608 Lincoln  
Av Millvale Pittsburgh 9 Pa  
LIQUID ALUMINUM Chicago Bronze & Color  
Wks 2573 W Grand Av Chicago 12 Ill  
LIQUISAN Linsaed Oil Prods Co 1107 S Fre-  
mont Av Alhambra Cal  
LITE-MIX Certain-teed Prods Corp 120 E  
Lancaster Av Ardmore Pa  
LITE-ROCK Cleveland Gypsum Co 1276 W  
Third Cleveland 13 Ohio  
LITEWATER Standard Conveyor Co 315 NW  
Second North St Paul 9 Minn  
LITTLE GIANT Hyde Mfg Co Eastford &  
Clemence Southbridge Mass  
LITTLE GIANT Little Giant Prods Inc 1530  
N Adams Peoria 3 Ill  
LITTLE MAJOR Arro Expansion Bolt Co N  
Boone Av Marion Ohio  
LITTLE TITAN SCALE Johnson (C S) Co  
Box 71 Champaign Ill  
LITTLE WIZARD Round (David) & Son Inc  
Box 883 Cleveland 22 Ohio  
LLENROC Cornell Iron Wks Inc 36th Av &  
13th Long Island City 6 NY  
LOAD LIFTER Shaw-Box Crane & Hoist Div  
Manning Maxwell & Moore Inc 414 Broad-  
way Muskegon Mich  
LOAD-PLUS Jaeger Machine Co 500 W Spring  
Columbus Ohio  
LO-BIN TROLLEY BATCHER Johnson (C S)  
Co Box 71 Champaign Ill  
LOCKBACK Wilson Plastics Inc 1531 Main  
Rd Sandusky Ohio  
LOCK-JOINT EXPANSION Lock-Joint Win-  
dow Co 817 NW 61st Oklahoma City 14 Okla  
LOCKWEAVE Whiting Fence Co 130 19th  
Cambridge 42 Mass  
LOCKWOOD Cloud Oak Flooring Co 1916 N  
Weller Springfield Mo  
LOCKWOOD Lockwood Hwe Mfg Co Fitchburg  
Mass  
LOG CABIN FINISH McCloskey Varnish Co  
7600 State Rd Philadelphia 36 Pa  
LOGAN Logan Clay Prods Co Logan Ohio  
LOGGERS DREAM Taylor Machine Wks  
Louisville 7 Ky  
LOGGERS DREAM YARDSTER Taylor Ma-  
chine Wks Louisville Miss  
LO-K INSULATION Lockport Cotton Bat-  
ting Co Elmwood Av Lockport NY  
LOKATOR Edwards Co Inc Post Road Nor-  
walk Conn  
LOKT BAR Hope's Windows Inc 84 Hopkins  
Av Jamestown NY  
LOK-JOINT Insulate Div Minn & Ontario  
Paper Co 500 Baker Arcade Bldg Minne-  
apolis 2 Minn  
LOKTITE U S Expansion Bolt Co State St  
& PRR York Pa  
LONERGAN Lonergan Mfg Co Clark St  
Albion Mich  
LOOKOUT HEGGIE SIMPLEX Lookout Boil-  
er & Mfg Co Manufacturers Rd & Compress  
Chattanooga 1 Tenn  
LORAIN Thew Shovel Co 1374 E 28th Lorain  
Ohio  
LO-SET Mexico Refractories Co Love & Cole  
Mexico Mo  
LOUDEN Louden Machinery Co 1120 Broad-  
way Fairfield Iowa  
LOUVER-GLASS Kirlin Co 3435 E Jefferson  
Av Detroit 7 Mich  
LOUVREX Blue Ridge Glass Corp Libbey-  
Owens-Ford Sales Agent Nicholas Bldg  
Toledo 3 Ohio  
LUCKE LEAKPROOF Lucke (Wm B) Inc 514  
Railroad Av E Whitette Ill  
LUDWIG Busch (A G) & Co Inc 2632 N Cen-  
tral Av Chicago 39 Ill  
LUMABRITE Penetone Co 74 Hudson Av  
Tenafly NJ  
LUMASKIN Angier Corp Fountain St Fram-  
ingham Mass  
LUMI Luminous Ceilings Inc 2500 W North  
Av Chicago 47 Ill  
LUMINALL National Chemical & Mfg Co  
3617 S May Chicago 9 Ill  
LUMINETTE New Ray Prods Inc 315 E 22nd  
New York 10 NY  
LUMITE Lumite Div Chicopee Mills Inc 47  
Worth New York 13 NY  
LUNA Hooker Glass & Paint Mfg Co 659 W  
Washington Chicago 6 Ill  
LUPTON Flynn (Michael) Mfg Co 700 E  
Godfrey Av Philadelphia 24 Pa  
LUSTARITE Mobile Paint Mfg Co Inc Box  
1686 Mobile Ala  
LUSTERITE Insulate Div Minn & Ontario  
Paper Co 500 Baker Arcade Bldg Minne-  
apolis 2 Minn

LUSTRO-O-LITE Lustro Tile Mfg Co 49½ S  
Main Akron Ohio  
LUSTRO-WARE Columbus Plastic Prods Inc  
1625 W Mound Columbus 4 Ohio  
LUX-AIR Wolfe Prods Inc 71 Elinor Av  
Akron 5 Ohio  
LUXAIRE Olsen (C A) Mfg Co Filbert St  
Elyria Ohio  
LUXLITE COOLITE Mississippi Glass Co 88  
Angelica St Louis 7 Mo  
LUX-RIGHT St Paul Corrugating Co S End  
Wabasha St Bridge St Paul 1 Minn  
LUX-TITE Wolfe Prods Inc 71 Elinor Av  
Akron 5 Ohio  
LYTONE Minnesota Paints Inc 1101 Third  
S Minneapolis 15 Minn  
LYFETIME Capilano Timber Co Ltd Box 608  
Vancouver B C Canada  
LYON Lyon Metal Prods Inc 25 Montgomery  
Aurora Ill

**M**

M I W Modern Iron Wks 540 S Fifth Quincy  
Ill  
M L R Hendrick Mfg Corp 11 Selman Marble-  
head Mass  
M & M Mitts & Merrill 1009 S Water Saginaw  
Mich  
M & R ENAMEL Interchemical Corp Wooster  
Unit Wooster Ohio  
M-26 Mexico Refractories Co Love & Cole  
Mexico Mo  
MACHETA Aerovent Fabricators Inc Ash &  
Benton Piqua Ohio  
MACK Mack Trucks Inc Empire State Bldg  
New York 1 NY  
MACO May (J L) Co Inc 111 W Nineteenth  
New York 1 NY  
MACRETE Macloed Co Box 452 Sharonville  
Ohio  
MAGIC AIRE Huntingdon Industries Inc 2368  
Prospect Memphis Tenn  
MAGIC CHEF Magic Chef Inc 1641 S Kings-  
highway St Louis 10 Mo  
MAGIC HEET Smith (A O) Corp Permaglas  
Heating Div Kankakee Ill  
MAGNA-TITE Engineered Prods Co 129 Smith  
Box 118 Flint 4 Mich  
MAGNALITE Richards (J Merrill) 25 Hunt-  
ington Av Boston 16 Mass  
MAGNELITE Scharf (J H) Mfg Co 6120  
Binney Omaha 4 Neb  
MAGNOLIA Southern Cement Co 605 Protec-  
tive Life Bldg Birmingham 3 Ala  
MAGNOLIAN BRICK Whitacre-Greer Fire-  
proofing Co Waynesburg Ohio  
MAG-O-CRETE Camp Co Inc 6958 S State  
Chicago 21 Ill  
MAID OF ATHENS Athens Stove Wks Inc  
Hicks St Athens Tenn  
MAIL-BOX Penn-Greg Mfg Co 562 7th Av N  
Minneapolis 11 Minn  
MAJESTIC Heller Bros Co Heller Dr New-  
comerstown Ohio  
MAKE YOUR OWN Larnion (Chas O) Co Av  
G & C&NW Ry Sterling Ill  
MAKOMB Macomb Steel Products Co Macomb  
Ill  
MALARKY M & M Wood Working Co 2301  
N Columbia Blvd Portland 17 Ore  
MALT-LEAD BOLT ANCHOR Arro Expansion  
Bolt Co N Boone Av Marion Ohio  
MALT-A-GLIDE Malta Mfg Co 35 Elliott  
Malta Ohio  
MALT-A-MASTER Malta Mfg Co 35 Elliott  
Malta Ohio  
MALT-A-MATIC Malta Mfg Co 35 Elliott  
Malta Ohio  
MALTESE CROSS BRAND Seattle Cedar  
Lumber Mfg Co 4703 Ballard Av Seattle 7  
Wash  
MAN O WAR ULTRA SPAR McCloskey Var-  
nish Co 7600 State Rd Philadelphia 36 Pa  
MANHATTAN Manhattan Terrazzo Brass  
Strip Co Inc Box 187 Norwalk Conn  
MANHATTAN Raybestos-Manhattan Inc Man-  
hattan Rubber Div 61 Willett Passaic NJ  
MANSOTA STONE Babcock Co Kasota Minn  
MARL-COTE National Chemical & Mfg Co  
3617 S May Chicago 9 Ill  
MARBLETRD Thomas Moulding Floor Mfg  
Co 325 W Huron Chicago 10 Ill  
MARCO FOLDING STAIRWAYS Marschke  
Co (Marco Stairways) 1695 N Cleveland Av  
St Paul 8 Minn  
MARFORGE Market Forge Co 35 Garvey  
Everett 49 Mass  
MAR-GON United Gilsonite Laboratories 1396  
Jefferson Av Scranton 1 Pa  
MARIGOLD Heilig Bros Co Inc 24 W North  
York Pa  
MARINE CATERPILLARS Caterpillar Tractor  
Co 600 W Washington East Peoria Ill  
MARION MIXERS Rapids Machinery Co 889  
11th Marion Iowa  
MARKER Eberhard Faber Pencil Co 37 Green-  
point Av Brooklyn 22 NY  
MARMON-HERRINGTON Marmon-Herrington  
Co Inc 1511 W Washington Indianapolis  
Ind  
MARQUETTE Marquette Cement Mfg Co 20  
N Wacker Dr Chicago 6 Ill  
MARSHALLTOWN Marshalltown Trowel Co  
112 S Eighth Av Marshalltown Iowa  
MARVAN TAPE Marvan Corp Box 219 West  
Hartford Conn  
MARVEL Marvel Equipment Co 1055 Bowen  
Oshkosh Wis  
MARVEL Marvel Metal Prods Co 3843 W 43rd  
Chicago 32 Ill

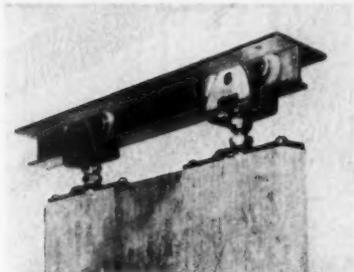
MARVEL Woodenware Prods Corp 122 N 7th  
St Louis 1 Mo  
MARVEL-LIFT Crawford Door Co 20263  
Hoover Rd Detroit 5 Mich  
MARVELWHITE Sonneborn (L) Sons Inc  
Building Prods Div 404 Fourth Av New  
York 16 NY  
MASON American Mason Safety Tread Co 125  
Perry Lowell Mass  
MASONITE Masonite Corp 111 W Washington  
Chicago 2 Ill  
MASON-SEAL Calbar Paint & Varnish Co  
2612-26 N Martha Philadelphia 25 Pa  
MASTER Master Addresser Co 6500 W Lake  
Minneapolis 16 Minn  
MASTER Master Metal Prods Inc 291 Chicago  
Buffalo 4 NY  
MASTER Wendell Mfg Co 4234 N Lincoln Av  
Chicago 18 Ill  
MASTER Woodenware Prods Corp 122 N 7th  
St Louis 1 Mo  
MASTER BUILDER Griffith Tool Wks Second  
& Duncannon Av Philadelphia 20 Pa  
MASTER-CALK Calbar Paint & Varnish Co  
2612-26 N Martha Philadelphia 25 Pa  
MASTER CLEANER & POLISH S & W  
Moulding Co 990 Parsons Av Columbus 6  
Ohio  
MASTER-FLUSH DOOR Hardwood Prods  
Corp 164 Lake Neenah Wis  
MASTER GLAZIERS Biddle Co 608-24 S  
Main St Louis 2 Mo  
MASTERKURE Master Builders Co 7016  
Euclid Av Cleveland 3 Ohio  
MASTER MASTIC S & W Moulding Co 990  
Parsons Av Columbus 6 Ohio  
MASTER NO-DRAFT Master Metal Strip Ser-  
vice Inc 1720 N Kilbourn Av Chicago 39 Ill  
MASTERPIECE Hooker Glass & Paint Mfg  
Co 659 Washington Chicago 6 Ill  
MASTER RULE Master Rule Mfg Co Inc 40  
Mulberry Middletown NY  
MASTER WOODWORKER Master Woodwork-  
er Mfg Co Inc 401-11 E Fort Detroit 26 Mich  
MASTERS Masters Planter Co 350 North  
Benton Harbor Mich  
MASTICBOARD Camp Co Inc 6958 S State  
Chicago 21 Ill  
MASTIC-COLOR Masury (John W) & Son Inc  
1700 Bayard Baltimore 30 Md  
MASUR-OIL Masury (John W) & Son Inc  
1700 Bayard Baltimore 30 Md  
MATERIAL DEALERS Material Dealers News-  
paper Mat Service Box 428 Enid Okla  
MATICO Mastic Tile Corp of America N  
Montgomery Newburgh NY  
MATICO ARISTOFLEX Mastic Tile Corp of  
America N Montgomery Newburgh NY  
MATICO CONFETTI Mastic Tile Corp of  
America N Montgomery Newburgh NY  
MATICO DELUXE Mastic Tile Corp of Ameri-  
ca N Montgomery Newburgh NY  
MATICO PARQUETRY Mastic Tile Corp of  
America N Montgomery Newburgh NY  
MATICO SUPER DELUXE Mastic Tile Corp  
of America N Montgomery Newburgh NY  
MAXAW Cummins Portable Tool Div Cum-  
mins-Chicago Corp 4740 Ravenswood Av  
Chicago 40 Ill  
MAXDRIL Cummins Portable Tools Div Cum-  
mins-Chicago Corp 4740 Ravenswood Av  
Chicago 40 Ill  
MAYES Mayes Bros Tool Mfg Co Port Austin  
Mich  
MAYESMAYES Mayes Bros Tool Mfg Co  
Port Austin Mich  
MAYFAIR Sunbeam Air Conditioner Div  
American Radiator & Standard Sanitary  
Corp Pittsburgh Pa  
MAYHEW Mayhew Steel Prods Inc Sears St  
Ext Shelburne Falls Mass  
MAYTAG Maytag Co Newton Iowa  
MAZE Maze (W H) Co Church & The River  
Peru Ill  
MAZEMAZE Maze (W H) Co Church & The  
River Peru Ill  
MC CARTER McCarter Shingle Co Ltd 2418  
Rock Bay Av Vancouver B C Canada  
MC CORMICK International Harvester Co 180  
N Michigan Av Chicago 1 Ill  
MC DONOUGH McDonough Mfg Co 1500-1600  
Galloway Eau Claire Wis  
MC MAHAN McMahan Bros 2220 S Hoover  
Los Angeles 7 Cal  
MECH-A-NAMEL O'Brien Corp 101 N John-  
son South Bend 21 Ind  
MECCO Curtis Mfg & Asbestos Co 29 & 30  
Lewis Wharf Boston 10 Mass  
MECO Marvel Equipment Co 1055 Bowen  
Oshkosh Wis  
MELNOR Melnor Metal Prods Co Inc 10-40  
45th Av Long Island City 1 NY  
MELTOMATIC Wayne Chemical Prods Co  
Copeland & MCCR Detroit 17 Mich  
MENDEL Exiner (Alexander) Co Merchandise  
Mart Chicago 54 Ill  
MENZIT Webb Prods Co 216 South G San  
Bernardino Cal  
MEPHISTO Mephisto Tool Co Inc Box 16  
Hudson NY  
MERCON American Rubber Prods Corp 151 E  
50th New York 22 NY  
MERCURY Vulcan Electric Co 88 Holton  
Danvers Mass  
MERCURY'S Weatherbest Corp 986 Oliver  
North Tonawanda NY  
MERIT Merit Oak Flooring Co 4530 Georgia  
Rd Birmingham Ala  
MERMAID Lehman Sprayshield Co 3355 York  
Rd Philadelphia 40 Pa

# GRANT

*pulley & hardware corporation*

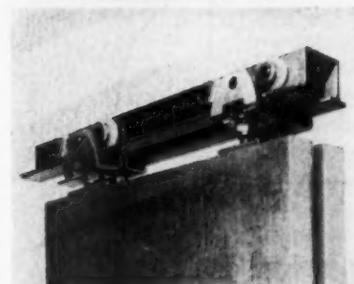
31-63 Whitestone Parkway, Flushing, New York

Send for complete Sliding Door Framing Data booklet. It's free! It's useful! Write to 31-63 Whitestone Parkway, Flushing, New York.



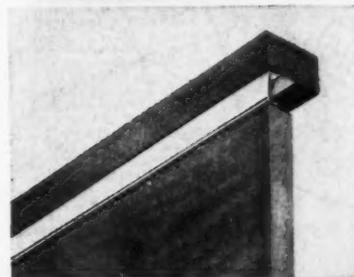
## Grant 71 Series

Type: single sliding and bi-parting doors.  
Pocket: closed or open  
Headroom: lowest of any quality sliding door hardware—only 1 3/4".  
Door thickness: to 1 3/4".  
Load: 100 lbs. per door. Completely packaged in 4, 5, 6 and 8 ft. units. See No. 72 below for list of features.



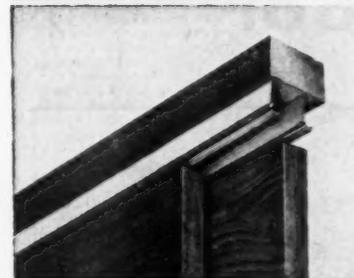
## Grant 72 Series

Same as No. 71 (above) except for  
Type: for by-passing multiple doors.  
Models 71 and 72 have noiseless solid nylon ball bearing rollers.  
Headroom: non-adjustable, 1 1/2"; adjustable, 2 3/4" average.



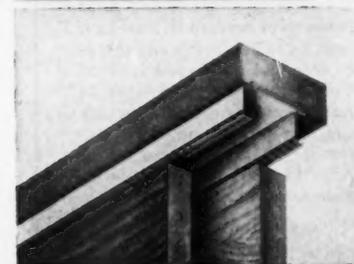
## Rocket 1020 Hanger

Type: single sliding or bi-parting doors.  
Pocket: Closed or open.  
Minimum Headroom: 1 1/4"  
Door thickness: to 1 3/4"  
Load: 50 lbs. per door. Completely packaged in 4, 5, 6 and 8 ft. units. The Rocket is the leader in the low-cost field. See below for features.



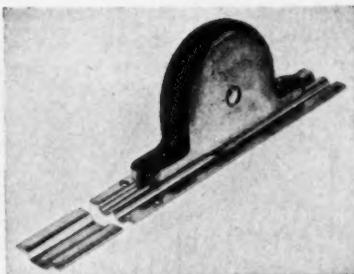
## Rocket 1030 Hanger

Same as 1020 (above) except for  
Style: for by-passing multiple doors.  
Door thickness: to 3/4"  
All Rocket models may be had with choice of carriers: non-adjustable top mount, adjustable top mount or adjustable side mount.



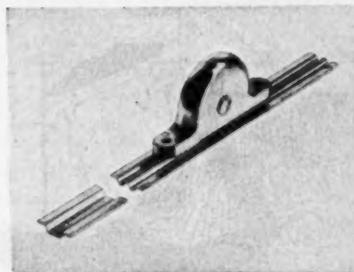
## Rocket 1040 Hanger

Same as 1030 (above) except for  
Door thickness: to 1 3/4"  
Solid self-lubricating Nylon rollers on all three models. Track serves as architectural trim. No fascia plate needed. Simple to install.



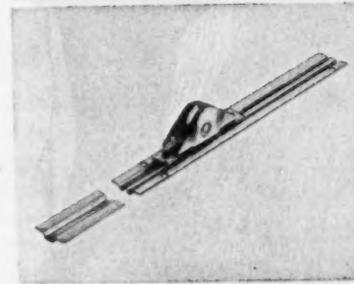
## 14 Sheaves and Tracks

Used where overhead support not practical. For heavy doors (up to 200 lbs.) Oilite bronze bushings track flush with floor. Wheel tread metal or rubber. Dimensions:  
Face: 13/16" x 6"  
Face thickness: 5/16"  
Height: 2 7/8"  
Wheel Diameter: 2 3/4"  
Track width: 1 3/4"



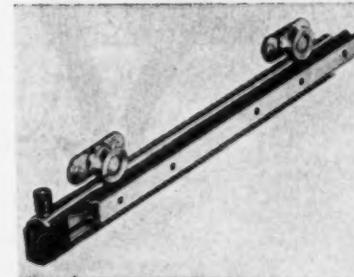
## 18 Sheaves and Tracks

For medium weight doors (up to 125 lbs.) Differs from No. 14 (above) only in dimensions:  
Face: 11/16" x 4 3/4"  
Face Thickness: 5/16"  
Height: 1 15/16"  
Wheel diameter: 1 3/4"  
Track width: 1"



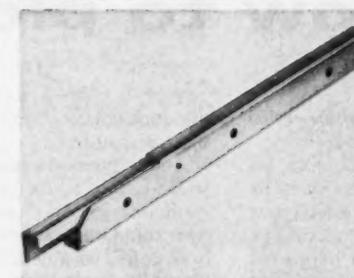
## 20 Sheaves and Tracks

For light cabinet doors, (up to 50 lbs.) Oilite bronze bushings, track flush with floor. Wheel tread: metal or rubber. Dimensions:  
Face: 15/32" x 2 15/16"  
Face thickness: 1/16"  
Height: 7/8"  
Wheel diameter: 1"  
Track width: 7/8"



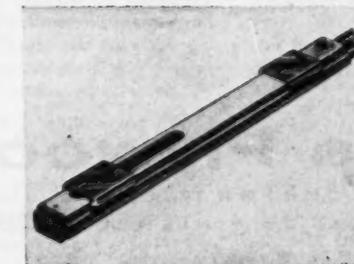
## 306 Drawer Slide

Ball bearing drawer slide for side mounting.  
Load: up to 50 lbs.  
Space needed: 3/4" each side of drawer.  
Travel: full length. Can't slip or upset.  
Material: steel.  
Finish: Zinc plated  
Sizes: 12" to 30", every inch.  
32" to 40", even sizes.



## 330 Drawer Slide

Inexpensive EconoSlide for side mounting.  
Load: up to 50 lbs.  
Space needed: 21/32" each side of drawer.  
Material: Steel  
Finish: Zinc plated  
Sizes: 14" to 28", even sizes only.  
Roller action, simple installation.



## 308 Drawer Slide

Ball bearing drawer slide for underneath mounting.  
Load: up to 40 lbs.  
Travel: Full length  
Material: Steel  
Finish: Zinc plated  
Sizes: 12" to 38", even sizes only.



## How to pick a door

Every door leads somewhere — so watch out how you pick 'em.

It's a smart builder who picks his source of flush panel doors. Once he lets his building supplies dealer know he wants Atlas Plywood doors he knows what to expect. For he knows that Atlas Plywood has a complete and comprehensive stock in every wood, every grade, every state of finish a builder could want. And when

the door itself comes — that's it. Just what you ordered.

Atlas Plywood controls all its own sources, does all its own manufacture, maintains its own inspections to its own standards every step of the way from forest to finished product. Atlas Plywood is among the oldest and largest suppliers of plywood and its products in the world. It's a supply source you'll always appreciate.

# Atlas Plywood

CORPORATION

FROM FOREST TO FINISHED PRODUCT

Boston 16, Mass. Distributors in all principal cities



**ALL THE WOODS  
ALL THE GRADES  
ALL THE SERVICE**

Whatever you specify in "Atlas Plywood or equivalent" in doors, dealers can get exactly and speedily from Atlas Plywood Jobbers. You get all the advantages of flush doors for modernity, beauty and ease of cleaning and maintenance PLUS the advantage of Atlas Plywood's quality control from forest to finished product.

MERWIN Merwin Mfg Co 19th & German Erie Pa  
**MET-CRO** Met-Cro Specialties Co Inc 56 Boerum Brooklyn 6 NY  
**META-KOTE** Meta-Kote Corp 517 Gardner Bldg Toledo 4 Ohio  
**METALANE** Monarch Metal Weatherstrip Corp 6333 Etzel Av St Louis 14 Mo  
**METALCRAFT** Metalcraft Screen Co 1171 Tremont Boston 20 Mass  
**METAL CRAFTERS** Metal Crafters 18th & E Av NE Cedar Rapids Iowa  
**METAL-FOLD SAFETY STAIR** Huntington Industries Inc 2368 Prospect Memphis Tenn  
**METALLIC** Lufkin Rule Co 1730 Hess Saginaw Mich  
**METALOK** Johns-Manville 22 E 40th New York 16 NY  
**METAL MASTER** Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ  
**METEOR** Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Av Tonawanda NY  
**METL-LOCK** Midwest Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio  
**METLWAL** Martin-Parry Corp 1455 W Alexis Rd Toledo Ohio  
**METRIM BACK BAND** Chicago Metallic Sash Co 2112 Ogden Av Chicago 12 Ill  
**METRODECK** Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio  
**METRO** Dunham (C A) Co 400 W Madison Chicago 6 Ill  
**METRO-MIX** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**METROPOLITAN** Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
**MEZURALL** Lufkin Rule Co 1730 Hess Saginaw Mich  
**MICAFIL** Sisco Vermiculite Mines Ltd 907 Dominion Square Bldg Montreal Que Canada  
**MICARTA** United States Plywood Corp 55 W 44th New York 36 NY  
**MICARTA** Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa  
**MICARTABORD** United States Plywood Corp 55 W 44th New York 36 NY  
**MICROLOY** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**MICROMET** Calgon Inc 323 Fourth Av Pittsburgh Pa  
**MICROTOMIC** Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY  
**MIDGET** Midget Heater & Specialty Co 2801 Pacific Av Tacoma Wash  
**MIDGET** Utica Radiator Corp 2201 Dwyer Av Utica NY  
**MIDGET LOUVER** Midget Louver Co 6-8 Wall Norwalk Conn  
**MIDGET ROLLER** Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich  
**MIDGET SLAT CLOSURE** Wilson (J G) Corp 370 Lexington Av New York 17 NY  
**MIGHTY MIDGET** PULLERS Coffing Hoist Co 800 Wilbers Dazville Ill  
**MIKE** Cleveland Mills Co Lawndale NC  
**MILCOR** Inland Steel Prods Co Box 393 Milwaukee 1 Wis  
**MILFORD** International Twist Drill Corp 618 Wyandotte Kansas City 5 Mo  
**MILLER** Miller Co 200 Center Meriden Conn  
**MILLER** Miller Bros Co Box 540 Johnson City Tenn  
**MILLER** Miller (Frank B) Mfg Co 3216 Valhalla Dr Burbank Cal  
**MILLIKEN** Milliken Brick Co 2100 Montier Pittsburgh 21 Pa  
**MILWAUKEE** Milwaukee Electric Tool Corp 5356 W State Milwaukee 8 Wis  
**MILWAUKEE** Milwaukee Hay Tool Co 2773 S 29th Milwaukee 46 Wis  
**MINALITH** American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill  
**MINNCOTE** Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
**MINNFLO** Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
**MINNSPAR** Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
**MINUT-BARB** Dare Prods Inc Box 157 Battle Creek Mich  
**MINUTE MAN** Slaymaker Lock Co 115 S West End Av Lancaster Pa  
**MIRACLE G & W** H Corson Inc Plymouth Meeting Pa  
**MIRACLE** Marquart Millwork Co 50 Ceape Oshkosh Wis  
**MIRACLE ANCHOR** Miracle Adhesives Corp 214 E 53rd New York 22 NY  
**MIRACLE BLACK MAGIC** Miracle Adhesives Corp 214 E 53rd New York 22 NY  
**MIRACLE BRITE MAGIC** Miracle Adhesives Corp 214 E 53rd New York 22 NY  
**MIRACLE R-MIR-DEK** Miracle Adhesives Corp 214 E 53rd New York 22 NY  
**MIRAPLAS** S & W Moulding Co 990 Parsons Av Columbus 6 Ohio  
**MIRATILE** Universal Major Electric Appliance Co Box 119 Lima Ohio  
**MIRATRIM** S & W Moulding Co 990 Parsons Av Columbus 6 Ohio  
**MIRAWAL** Universal Major Electric Appliance Co Box 119 Lima Ohio  
**MIRICO-BOND** Camp Co Inc 6958 S State Chicago 1 Ill  
**MITCO** Hendrick Mfg Co Dundaff St Carbondale Pa  
**MITCO** Mitchell Moulding Co 1501 Circle Av Forest Park Ill  
**MITI-MITE** Harnischfeger Corp 4400 W National Av Milwaukee 46 Wis

**MIXERMOBILE** Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore  
**MOBILWALLS** Virginia Metal Prods Inc Orange Va  
**MOBILE** REMINGTON STUD DRIVER Remington Arms Co Inc 939 Barnum Av Bridgeport 2 Conn  
**MODERN** Modern Iron Wks 540 S Fifth Quincy Ill  
**MODERN** Modern Welding Co Inc 1500 E 12th Owensboro Ky  
**MODERN HOMES** Modern Homes Corp 7312 Greenfield Dearborn Mich  
**MODERNFOLD** New Castle Prods Inc New Castle Ind  
**MODU-AIRE** United States Air Conditioning Corp Como Av SE at 33rd Minneapolis 14 Minn  
**MODULART** Weber Showcase & Fixtures Co Inc 5700 Avalon Blvd Los Angeles 54 Cal  
**MOHAWK** Cheney (Henry) Hammer Corp 73 W Mill Little Falls NY  
**MOHAWK** Mohawk Flush Doors Inc 3383 Hammond Av Elkhart Ind  
**MOLCOR** Bemis Mfg Co Broadway Sheboygan Falls Wis  
**MOLDOCHIL** Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
**MOLINE** Moline Iron Wks Moline Ill  
**MOLLY** Molly Corp 504 Medical Arts Bldg Reading Pa  
**MONARCH** Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
**MONARCH** Monarch Malleable Iron Range Co Beaver Dam Wis  
**MONARCH** Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
**MONARCH-IN-A-SLIDE** New Monarch Machine & Stamping Co 406 SW 9th Des Moines 9 Iowa  
**MONARCK CUTTER** Texas Foundries Inc Box 180 Lufkin Tex  
**MONITE** Monite Waterproof Glue Co 1093 Monite Bldg Minneapolis 11 Minn  
**MONITOR** Baker Mfg Co 133 Enterprise Evansville Wis  
**MONO-CHROME** Mexico Refractories Co Love & Cole Mexico Mo  
**MONO-FIBRIK** Mexico Refractories Co Love & Cole Mexico Mo  
**MONOTOP** General Electric Co Chemical Div 1 Plastics Av Pittsfield Mass  
**MOORE-FIN** Moore Dry Kiln Co 1220 W State Jacksonville Fla  
**MOREKILN** Moore Dry Kiln Co 1220 W State Jacksonville Fla  
**MAPACO VAR** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**MOROCCAN LEATHERBORD** Wallace Mfg Co 10th & Fayette North Kansas City Mo  
**MOR-SUN** Morrison Steel Prods 601 Amherst Buffalo 7 NY  
**MORTASEAL** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**MORTEX** #5 Martell (J W) Co 550 N Hobbie Av Kankakee Ill  
**MORTITE** Mortell (J W) Co 550 N Hobbie Av Kankakee Ill  
**MOTO-BUG** Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
**MOTO-BUG** Kwik Mix Co Port Washington Wis  
**MOTO-CRANE** Thew Shovel Co 1374 E 28th Lorain Ohio  
**MOTO-MIXER** Chain Belt Co 1600 W Bruce Milwaukee 1 Wis  
**MOTO-TRIMMER** Bosworth Mfg Co Mills Rd Avon Ohio  
**MOTORSTOKOR** Hershey Machine & Foundry Co 1940 Miller Manheim Pa  
**MOTOTURB** Uno Ventilator Co 1236 Eastern Av Malden Mass  
**MOTOWIFT** Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
**MOULFLEX** Moultilite Inc N Montgomery Newburgh NY  
**MOULSTONE** Thomas Moulding Floor Mfg Co 325 W Huron Chicago 10 Ill  
**MOULTILE** Moultilite Inc N Montgomery Newburgh NY  
**MOUNT VERNON** Gerber Plumbing Fixtures 232 N Clark Chicago Ill  
**MOYNO** Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio  
**MUD-JACK** Koehring Co 3026 W Concordia Av Milwaukee 16 Wis  
**MULLER CLIMATROL** Mueller Climatrol Corp 2005 W Oklahoma Av Milwaukee 15 Wis  
**MULLER MIXER** Muller Machinery Co Inc Box 248 Metuchen 4 NJ  
**MULSOMASTIC** Trecco Mfg Co 8701 Kinsman Rd Cleveland Ohio  
**MULTICO BLOCKMASTER** Multiplex Machinery Co Div Multipack Inc 1430 Fremont Elmore Ohio  
**MULTICUT** Western Saw Mfrs Inc 1842 W Washington Blvd Los Angeles Cal  
**MULTI-DIAMETER** U S Expansion Bolt Co State St & PRR York Pa  
**MULTI-FIN** Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa  
**MULTIGRAPH** Addressograph - Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
**MULTILITH** Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
**MULTI-MAST** Utility Service Co Inc 921 13th Racine Wis  
**MULTI-PURPOSE** Flint & Walling Mfg Co Inc 90 Oak Kendallville Ind

**MULTI-SHINGLES** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
**MULTI-SPRING** Master Lock Co 2600 N 32nd Milwaukee 45 Wis  
**MULTI-TUBE** Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa  
**MULTI-VENT** Pyle National Co 1334 N Koster Av Chicago 51 Ill  
**MULTITINT** Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo  
**MURA-TEX** Tile-Tex Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
**MURATILE** Mosaic Tile Co 1949 Pershing Av Zanesville Ohio  
**MURCO** Murray (D J) Mfg Co 1024 Third Wausau Wis  
**MURDOCK** Murdock Mfg & Supply Co 426 Plum Cincinnati 2 Ohio  
**MUR-MADE** Murdock Mfg & Supply Co 426 Plum Cincinnati 2 Ohio  
**MURRAY** Murray Corp of America 7700 Russell Av Detroit Mich  
**MURVIT** Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
**MYERS** Myers (F E) & Bro Co 424-34 Orange Ashland Ohio  
**MYSTONE** Penetone Co 74 Hudson Av Tenafly NJ  
**MYTI-DRI** Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va

## N

**N S W N S W** Co 12930 Auburn Av Detroit 23 Mich  
**NABORS** Nabors (W C) Co Mansfield La  
**NALCO** National Lead Co 111 Broadway New York 6 NY  
**NALTEX** Nalle Plastics Inc 108-12 W 2nd Austin 1 Tex  
**NALTILE** Nalle Plastics Inc 108-12 W 2nd Austin 1 Tex  
**NAM-A-LAC** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**NANCY WARREN** United Wallpaper Inc Merchandise Mart Plaza Chicago 54 Ill  
**NARROWALL** Holly Mfg Co 875 S Arroyo Pkwy Sta D Pasadena 2 Cal  
**NASHOTAH-PAKT** Nashotah Moulding & Mfg Co Nashotah Wis  
**NAT BLAK** National Rock Wool Sales Inc Lakro Ind  
**NATIONAL** Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
**NATIONAL** Metal Trims Inc Box 1072 Youngstown 1 Ohio  
**NATIONAL** National Radiator Co 223 Central Av Johnstown Pa  
**NATIONAL** National Screen Co Madison Av Extended Suffolk Va  
**NATIONAL LIFETIME TILE** National Tile & Mfg Co E 26th Anderson Ind  
**NAT ROC** National Rock Wool Sales Inc Lakro Ind  
**NAVAJO** Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
**NAVAL** Sloan Valve Co 4300 W Lake Chicago 24 Ill  
**NAVEE** 742 Penetone Co 74 Hudson Av Tenafly NJ  
**NECOTA** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**NEOSOTE** Protexol Corp 162 Market Kenilworth NJ  
**NEPTUNE** Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
**NEPTUNE** Washington Stove Wks Box 919 Everett Wash  
**NERVA KOTE** Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY  
**NERVA-PLAST** Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY  
**NERVASTRAL** J F Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY  
**NERVASTRAL SEAL-PRUF** Rubber & Plastics Compound Co Inc 30 Rockefeller Plaza New York 20 NY  
**NEUTONE** Martin-Senour Co 2520 S Quarry Chicago 8 Ill  
**NEVA-BREAK** Plumbers Woodwork Co Algoma Wis  
**NEVER-STAIN** Nichols Wire & Aluminum Co 1725 Rockingham Rd Davenport Iowa  
**NEW BEDFORD** New Bedford Cordage Co 131 Court New Bedford Mass  
**NEW ERA** Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
**NEW OLYMPIC SIERRA HAND-HEWN** SHAKES Olympic Stained Prods Co 1118 Leary Way Seattle Wash  
**NIAGARA** Niagara Furnace Div Forest City Foundries Co 2500 W 27th Cleveland 13 Ohio  
**NICHOLS** Nichols Metal Strip Service 2108 Gilbert Av Cincinnati 6 Ohio  
**NICKELETTE** Tilette Cement Co Inc 401 Lafayette New York 3 NY  
**NI-CLAD** Lufkin Rule Co 1730 Hess Saginaw Mich  
**NIGHTROL** Paragon Electric Co 1606 12th Two Rivers Wis  
**NINE LIFE** Cleveland Cleaner & Paste Co 7275 Neville Av SW Cleveland 2 Ohio  
**NINETY** Glen-Gry Shale Brick Corp Box 182 Wyomissing Pa  
**NITE-GLO** Active Display Adv 1702 W 19th Chicago 8 Ill

NO DRIP Mortell (J W) Co 550 N Hobbie  
Av Kankakee Ill  
NO-FLAME Reliable Paste & Chemical Co  
3560 Shields Av Chicago 9 Ill  
NOISEMASTER Simpson Logging Co White  
Bldg Seattle 1 Wash  
NOMEK Lock-Joint Window Co 817 NW 61st  
Oklahoma City 14 Okla  
NON CON DUX Wilson (Grant) Inc 141 W  
Jackson Blvd Chicago 4 Ill  
NORGE HEAT Norge Heat Div Borg-Warner  
Corp 346 E South Kalamazoo Mich  
NORK General Hdwe Mfg Co Inc 80 White  
New York 13 NY  
NORMAN HI-LO-BOY Norman Prods Co 1150  
Chesapeake Av Columbus 12 Ohio  
NORMAN INN-A-WAL Norman Prods Co 1150  
Chesapeake Av Columbus 12 Ohio  
NORMAN SOUTHERNER Norman Prods Co  
1150 Chesapeake Av Columbus 12 Ohio  
NORMAN THREE SIXTY Norman Prods Co  
1150 Chesapeake Av Columbus 12 Ohio  
NORMAN TWINFUEL Norman Prods Co 1150  
Chesapeake Av Columbus 12 Ohio  
NORRIS-THERMADOR Thermador Electrical  
Mfg Co 5119 District Blvd Los Angeles 22  
Cal  
NORTHWEST Northwest Engineering Co 135  
S LaSalle Chicago 3 Ill  
NORTON Behr-Manning Corp Div Norton  
Co 1554 Seifert Troy NY  
NORWESCO Northwest Metal Prods Inc 55  
Spokane Seattle 4 Wash  
NO SHOK Bell Electric Co 1844-50 W 21st  
Chicago 8 Ill  
NO-SHRINK Reliable Paste & Chemical Co  
3560 Shields Av Chicago 9 Ill  
NOURSE FLEXO FLINT Nourse Oil Co Clin-  
ton & Frisco Tracks Kansas City 8 Mo  
NOURSE FORM OIL Nourse Oil Co Clinton  
& Frisco Tracks Kansas City 8 Mo  
NOVA Nova Sales Co Trenton 3 NJ  
NOVACRETE Nova Sales Co Trenton 3 NJ  
NOVAFIL Nova Sales Co Trenton 3 NJ  
NOVAFOLD Nova Sales Co Trenton 3 NJ  
NOVALASTIC Nova Sales Co Trenton 3 NJ  
NOVAMIX Nova Sales Co Trenton 3 NJ  
NOVAPRIME Nova Sales Co Trenton 3 NJ  
NOVOPLY United States Plywood Corp 55 W  
44th New York 36 NY  
NO-WOOD Wood Conversion Co 1st National  
Bank Bldg St Paul 1 Minn  
NOX-EM-ALL Barrett Div Allied Chemical  
& Dye Corp 40 Rector New York 6 NY  
NU-HUE Martin-Senour Co 2520 S Quarry  
Chicago 8 Ill  
NU SURFAS Nu Surfacs Corp 7312 S Bennett  
Av Chicago 49 Ill  
NUTTING Nutting Truck & Cater Co 1625  
W Division Fairhull Minn  
NU-WALL Nu-Wall Mfg Co 923 N 19th Mil-  
waukee 3 Wis  
NYE-UNIVERSAL PATTERN WHEELS Col-  
lier Bros 420 S St Joseph South Bend 1 Ind

**O**

O-E Arro Expansion Bolt Co N Boone Av  
Marion Ohio  
OK-O-K Mfg Co Minneapolis 1 Minn  
OTC Owatonna Tool Co 341 Cedar Owatonna  
Minn  
OAKES Oakes Mfg Co Inc 516 Dearborn Tip-  
ton Ind  
OASIS WATER COOLER Ebeco Mfg Co 401  
W Town Columbus 8 Ohio  
ODOROUT Westinghouse Electric Corp Lamp  
Div Bloomfield NJ  
OHIO Ohio Hydrate & Supply Co Woodville  
Ohio  
OHIO Wooster Brush Co Madison Av Wooster  
Ohio  
OHIO AUTOCLAVED Ohio Hydrate & Supply  
Co Woodville Ohio  
OHIO EVER-READY Ohio Hydrate & Supply  
Co Woodville Ohio  
OHIO SANLINE Ohio Hydrate & Supply Co  
Woodville Ohio  
OIL-A-FIRE Automatic Firing Corp 4417  
Cleatha Av St Louis 16 Mo  
OIL-FLO Coal-O-Matic Stoker Co Main St  
Trucksville Pa  
OIL FLO-WARM Williamson Heater Co 3500  
Madison Rd Cincinnati 9 Ohio  
OILSAVER DELUXE FLO-WARM Williamson  
Heater Co 3500 Madison Rd Cincinnati 9  
Ohio  
OIL TONE Seiditz Paint & Varnish Co 18th  
& Garfield Kansas City Mo  
OLD ENGLISH Boyle-Midway Inc 22 E 40th  
New York 16 NY  
OLD GRAND DAD Dad & Lad Co New Lenox  
Ill  
OLD VIRGINIA WHITE Cabot (Samuel) Inc  
141 Milk Boston Mass  
OLSON LINE Olson Mfg Co 620-24 S Broad-  
way Albert Lea Minn  
OLYMPIA General Metalcraft Inc Box 57  
Olympia Wash  
OLYMPIC Washington Stove Wks Box 919  
Everett Wash  
OLYMPIC PERFECT-FIT Olympic Stained  
Prods Co 1118 Leary Way Seattle 7 Wash  
OLYMPIC TEXTERIOR Olympic Stained  
Prods Co 1118 Leary Way Seattle 7 Wash  
OLYMPIC TIMBERLINE Olympic Stained  
Prods Co 1118 Leary Way Seattle 7 Wash  
ON-A-DOOR Hooker Glass & Paint Mfg Co  
659 W Washington Chicago 6 Ill  
ONE-DER One-Der Frame Corp 1232 N 27th  
Pl Box 3069 Birmingham 3 Ala

ONEIDA Breneman-Hartshorn Inc 2045 Read-  
ing Rd Cincinnati 2 Ohio  
ONE MINUTE One Minute Washer Co Kellogg  
Iowa  
OPAL New York Wire Cloth Co 63 Park New  
Canaan Conn  
ORANGE Orange Div Eagle-Picher Co Amer-  
ican Bldg Cincinnati Ohio  
ORANGE Virginia Metal Prods Inc Dept A-44  
Orange Va  
ORANGEBURG Orangeburg Mfg Co 48 Thom-  
as Orangeburg NY  
ORIENTAL United States Gypsum Co 300 W  
Adams Chicago 6 Ill  
OSBORN Osborn Mfg Co 5401 Hamilton Av  
Cleveland 14 Ohio  
OSBORNE JAMB TYPE Arrowamith Tool &  
Die Co 9700 Bellanca Av Los Angeles 45 Cal  
OSBORNE LBT-LITE Arrowamith Tool & Die  
Co 9700 Bellanca Av Los Angeles 45 Cal  
OSMOPLASTIC Osmose Wood Preserving Co  
of America Inc 980 Ellicott Buffalo 9 NY  
OSMOSALTS Osmose Wood Preserving Co of  
America Inc 980 Ellicott Buffalo 9 NY  
OSWEGO Breneman-Hartshorn Inc 2045 Read-  
ing Rd Cincinnati 2 Ohio  
OVERDOOR Barber-Colman Co 120 Mill Rock-  
ford Ill  
OVERHEAD DOOR Overhead Door Corp PRR  
& Kickapoo Hartford City Ind  
OXALUMA Cortland Grinding Wheels Corp 1  
Huntington Chester Mass  
OXWALL Oxwall Tool Co Ltd 928 Broadway  
New York 10 NY  
OZARK Ozark Oak Flooring Co Bismarck Mo

**P**

P-F SLIDER Per-Fit Prods Corp 1200 E 52nd  
Indianapolis 5 Ind  
P H Reliable Paste & Chemical Co 3560 Shields  
Av Chicago 9 Ill  
P-K Parker-Kalon-Corp 200 Varick New York  
14 NY  
P-M Sterling Abrasives Div Cleveland Quarries  
Co 1430 Broad Tiffin 15 Ohio  
P-M LINE Wetherill (Geo D) & Co Inc 113-  
115 Arch Philadelphia 6 Pa  
PAASCHE Paasche Airbrush Co 1909 W Diver-  
sey Pkwy Chicago 14 Ill  
PACEMAKER McQuay Inc 1600 Broadway  
NE Minneapolis 13 Minn  
PACIFIC Breneman-Hartshorn Inc 2045 Read-  
ing Rd Cincinnati 2 Ohio  
PACIFIC Pacific Brass & Hdwe Mfg Co 2442  
N Chico Av El Monte Cal  
PACIFIC United States Radiator Corp Buhl  
Bldg Detroit 31 Mich  
PACKY Kluegel (Ernest) Co 169 W Kellogg  
Blvd St Paul 2 Minn  
PAGE Paper Teed & Wire Div American Chain  
& Cable Co Inc First & River Monessen Pa  
PAINTERS PRIDE Wooster Brush Co Madison  
Av Wooster Ohio  
PAINTGUN Root-Lowell Corp 445 N Lake  
Shore Dr Chicago 11 Ill  
PALLADIUM Williams Prods Co Inc 6127  
Cedar Av Philadelphia 43 Pa  
PAL-O-PAK Pal-O-Pak Insulation Co Inc  
Hartland Wis  
PANACALITE Panacalite Div Combined Metals  
Reduction Co 202 Felt Bldg Salt Lake City  
Utah  
PANACALITE PERLITE Panacalite Perlite  
Inc 311 S Fifth Kansas City Kas  
PANAMOID Barrett Div Allied Chemical &  
Dye Corp 40 Rector New York 6 NY  
PANAVIEW Glide Windows Inc 7463 Varna  
Av North Hollywood Cal  
PANCAKE Wiremold Co Station A Hartford  
10 Conn  
PANELSTONE Ruberoid Co 500 Fifth Av New  
York 36 NY  
PANELTILE Insulite Div Minn & Ontario  
Paper Co 500 Baker Arcade Bldg Minne-  
apolis 2 Minn  
PANELUX Wilson Plastics Inc 1531 Milan Rd  
Sandusky Ohio  
PANELYTE St Regis Sales Corp Panelyte Div  
230 Park Av New York 17 NY  
PAPEC Papec Machine Co 30 W Main Short-  
sville NY  
PAPOOSE Capewell Mfg Co 60-70 Governor  
Hartford 2 Conn  
PARA-BACO Solvay Process Div Allied Chem-  
ical & Dye Corp 61 Broadway New York 6  
NY  
PARAFLO Dravo Corp Fifth & Liberty Av  
Pittsburgh 22 Pa  
PARAGON Barrett Div Allied Chemical & Dye  
Corp 40 Rector New York 6 NY  
PARAGON Paragon Electric Co 1606 12th  
Two Rivers Wis  
PARALINE Calder Mfg Co 630 N Prince Lan-  
caster 12 Pa  
PARALINE Pickett & Eckel Inc 5 S Wabash  
Av Chicago 3 Ill  
PARALINE UNIVERSAL DRAFTING IN-  
STRUMENT Loomis Industries Box 442  
Berkeley 1 Cal  
PARA-PLASTIC Serviched Prods Corp 6051  
W 55th Chicago 38 Ill  
PARCO Parker Rust Proof Co 2177 E Mil-  
waukee Detroit 11 Mich  
PAR-KAY Parkay Inc 5000 Crittenden Dr  
Louisville 9 Ky  
PARKER Parker (Charles) Co 50 Hanover  
Meriden Conn  
PARKER Parker (S) Hdwe Mfg Corp 27 Lud-  
low New York 2 NY

PARKER Parker Mfg Co 149 Washington  
Worcester Mass  
PARKER-KALON Parker-Kalon Corp 200  
Varick New York 14 NY  
PARMELEE Walworth Co 60 E 42nd New  
York 17 NY  
PAR PLUS Metal Prods Corp 510 First West  
Haven Conn  
PARQUET Robbins Flooring Co Reed City  
Mich  
PASTURE-COMFORT Hudson (H D) Mfg Co  
589 E Illinois Chicago 11 Ill  
PAVISEAL Pavinoleum Inc 1239 St Nicholas  
Av New York 32 NY  
PAYLOADER Hough (Frank G) Co Sunnyside  
Av Libertyville Ill  
PAYLOADER International Harvester Co 180  
N Michigan Av Chicago 11 Ill  
PEASE HOMES Pease Homes Co 900 Forest  
Av Hamilton Ohio  
PEE GEE Astrup Co 2937 W 25th Cleveland  
13 Ohio  
PEE GEE Devoc & Reynolds Co Inc 787 First  
Av New York 17 NY  
PEE GEE Peaslee-Gaulbert Paint & Varnish  
Co 223 N 15th Louisville Ky  
PERLESS Eddy Stoker Corp 4713-19 W  
North Av Chicago 11 Ill  
PERLESS Modern Iron Wks 540 S Fifth  
Quincy Ill  
PEERLESS Peerless Cement Corp 1144 Free  
Press Bldg Detroit 26 Mich  
PEERLESS Peerless Level & Tool Co Sterling  
Ill  
PEG-BOARD Butler (B B) Mfg Co Inc 3150  
Bridolph Bellwood Ill  
PELHAM Silver Lake Co 60 Batterymarch  
Boston 10 Mass  
PELLA Rolscreen Co Pella Iowa  
PENCLOR Pennsylvania Salt Mfg Co 453  
Widener Bldg Philadelphia 7 Pa  
PENCHROME O'Brien Corp 101 N Johnson  
South Bend 21 Ind  
PENCREM Tremco Mfg Co 8701 Kinman  
Rd Cleveland Ohio  
PENGLASS Pennsylvania Wire Glass Co 1612  
Market Philadelphia 3 Pa  
PENNANT Root-Lowell Corp 445 N Lake  
Shore Dr Chicago 11 Ill  
PENN CRETE Penn Crete Prods Co 20th &  
Lippincott Philadelphia 32 Pa  
PENNPAIN Pennsylvania Salt Mfg Co 453  
Widener Bldg Philadelphia 7 Pa  
PENNSALT Pennsylvania Salt Mfg Co 453  
Widener Bldg Philadelphia 7 Pa  
PENNVERNON Pittsburgh Plate Glass Co 632  
Fort Duquesne Blvd Pittsburgh 22 Pa  
PENNOVEN Pennwoolen Inc 70 E 45th  
New York 17 NY  
PENPLY Peninsula Plywood Corp Marine Dr  
Beverly Hills Los Angeles Wash  
PEN-SHEEN O'Brien Corp 101 N Johnson  
South Bend 21 Ind  
PENTA STAIN Wood-Treating Chemicals Co  
5137 Southwest Av St Louis 10 Mo  
PENTASOTE Protexol Corp 162 Market Kenil-  
worth NJ  
PEN-TEX O'Brien Corp 101 N Johnson South  
Bend 21 Ind  
PENTOX Osmose Wood Preserving Co of  
America Inc 980 Ellicott Buffalo 9 NY  
PENTRONOL Pioneer Mfg Co 3053-57 E 87th  
Cleveland 4 Ohio  
PEQUOD Breneman-Hartshorn Inc 2045 Read-  
ing Rd Cincinnati 2 Ohio  
PERF-A-TAPE United States Gypsum Co 300  
W Adams Chicago 6 Ill  
PERFEC-SEAL Reese Metal Weather Strip Co  
712 Park Av Minneapolis Minn  
PERFECTION Arkansas Oak Flooring Co 2200  
W 5th Av Pine Bluff Ark  
PERFECTION Diener (George W) Mfg Co 400  
N Monticello Av Chicago 24 Ill  
PERFECTION Lufkin Rule Co 1730 Heas  
Saginaw Mich  
PERFECTION Riverton Lime & Stone Co Inc  
Riverton Va  
PERFECTION True Temper Corp 1623 Euclid  
Av Cleveland 15 Ohio  
PERFECTO Metal Prods Co Wolfe & Jackson  
Fredericksburg Va  
PER-FIT Per-Fit Prods Corp 1200 E 52nd In-  
dianapolis 5 Ind  
PERFOLATH Certain-teed Prods Corp 120 E  
Lancaster Av Ardmore Pa  
PERF-O-MATIC Crofoot Mfg Co 217 Ever-  
green Mount Prospect Ill  
PERFORALL Woodall Industries Inc 3500  
Oakton Skokie Ill  
PERIM-A-BASE Berger Furnace Mfg Co 5920  
Centre Av Pittsburgh 6 Pa  
PERLAG Western Mineral Prods Co 1720 NE  
Madison Minneapolis Minn  
PERL-CRETE Western Mineral Prods Co 1720  
NE Madison Minneapolis Minn  
PERL-FLOTE Western Mineral Prods Co 1720  
NE Madison Minneapolis Minn  
PERLLITE Perlite Mfg Co Box 478 Arch St Ext  
Carnegie Pa  
PERL-TROWL Western Mineral Prods Co  
1720 NE Madison Minneapolis Minn  
PERMA-BILT Valena Metal Prods 2801 6th  
Av S Birmingham Ala  
PERMACOUSTIC Johns-Manville 22 E 40th  
New York 16 NY  
PERMA-GARD Gilbert & Bennett Mfg Co 600  
Miller Av Georgetown Conn  
PERMAGLAS Smith (A O) Corp Permaglas  
Heating Div Kankakee Ill  
PERMA-GLAZE Biddle Co 608-24 S Main St  
Louis 2 Mo

# an extra that helps close sales



laundry tray in exclusive sparkling, glass-hard, Perma-gloss—

the **LAUNDRA**  
by Richmond

Vitreous glazed, "New Perma-gloss" whiter-white, two-compartment, flat rim laundry tray, Laundray B-590, 40" x 23". Twin waste with brass plugs. Aluminum finished, steel stand with leveling screws.

Here's a fixture that will complement the appearance of any utility room, kitchen or basement laundry. Its styling and gleaming whiter-white finish match other appliances.

Your choice of three models—the new B-590 shown above, the Deluxe B-584 with raised shelf back, and the single-compartment B-570, with raised shelf back, where space is limited. All in RICHMOND's exclusive vitreous glazed, glass-hard "Perma-gloss" that Mrs. Housewife will be proud to have in her home.



B-584—40" x 23"



B-570—20" x 23"

**Richmond radiator co. Box 111, Metuchen, New Jersey**

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ZONE \_\_\_\_\_

STATE \_\_\_\_\_

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PERMA-GLAZE Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 PERMAGLOSS Thomas Moulding Floor Co Inc 325 W Huron Chicago 10 Ill  
 PERMA-GLOW Reflecto Letters Inc 411 E 101st New York 29 NY  
 PERMA-JACK Perma-Jack Corp 1111 E 200th Cleveland 17 Ohio  
 PERM-ALIGN Cummins Portable Tools Div Cummins-Chicago Corp 4740 Ravenswood Av Chicago 49 Ill  
 PERMA-LOK Logan-Long Co 6600 S Central Av Chicago 38 Ill  
 PERMA-NETTING Gilbert & Bennett Mfg Co 600 Miller Av Georgetown Conn  
 PERMA SEAL Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 PERMA-STONE Perma-Stone Co 719 E Hudson Columbus 11 Ohio  
 PERMATAB Logan-Long Co 6600 S Central Av Chicago 38 Ill  
 PERMATITE Durkee-Atwood Co 215 N E 7th Minneapolis 5 Minn  
 PERMATITE General Bronze Corp Stewart Av Garden City Long Island NY  
 PERMA-VENEER Standard Industrial Prod Inc 1500 Park Evansville 4 Ind  
 PERMA-WALL Logan-Long Co 6600 S Central Av Chicago 38 Ill  
 PERMITE Aluminum Industries Inc 2438 Beekman Cincinnati 25 Ohio  
 PERMO Flat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
 PERMODIP King (E & F) & Co Inc 640 Pleasant Norwood Miss  
 PERMUTIT ELECTRO-MATIC Permutit Co 330 W 42nd New York 36 NY  
 PETALUMA Petaluma Electric Incubator Co 416 East 2nd Petaluma Cal  
 PETER PUTTNER'S Sebalk Chemical Co 351 E Second Los Angeles 12 Cal  
 PETTIBONE Pettibone Mulliken Corp 4700 W Division Chicago 51 Ill  
 PHANTOM SYSTEM National System of Garage Vent Inc 138 W William Decatur Ill  
 PHILCO Philco Corp Tioga & "C" Philadelphia 34 Pa  
 PHOENIX Samson Cordage Wks 89 Broad Boston 10 Mass  
 PIC Dart Union Co 134 Thurburn Av Providence 5 RI  
 PICKETT Pickett & Eckel Inc 5 S Wabash Av Chicago 3 Ill  
 PIGMY Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
 PILOT Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
 PILOT Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
 PINCOR Pioneer Gen-E-Motor Corp 5841 W Dickens Chicago 39 Ill  
 PINE CRAFT White Pine Sash Co E 4005 Broadway Spokane Wash  
 PIONEER Paritan Cordage Mills Co 1205 E Washington Louisville 6 Ky  
 PIONEER FLINTKOTE Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal  
 PIONITE Pioneer Plastics Corp 28 Goodhue Salem Mass  
 PIPE-SEAL Calbar Paint & Varnish Co 2612-26 Martha Philadelphia 25 Pa  
 PIPITITE-STIK Lake Chemical Co 3052 W Carroll Av Chicago 12 Ill  
 PITTSBURGH Automatic Gas Equipment Co 301 Brushton Av Pittsburgh 21 Pa  
 PITTSBURGH Pittsburgh Incinerator Co 130 Beam Way Pittsburgh 11 Pa  
 PITTSBURGH Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
 PITTSBURGH INTERLOCK Jones & Brown Inc 439 Sixth Av Pittsburgh 19 Pa  
 PITTSBURGH INTERLOCK Pittsburgh Plastic Prods Inc 131 S Taylor South Bend Ind  
 PLACE HOMES Place Homes Inc 1212 S Walnut South Bend Ind  
 PLANKWELD United States Plywood Corp 55 W 44th New York 36 NY  
 PLANMASTER Stacor Equipment Co 768 E New York Av Brooklyn 3 NY  
 PLANTGARD BUG DUSTER Agchem Inc Div Kao Co 506 Maine Quincy Ill  
 PLASTERLITE Perlite Mfg Co Box 478 Arch St Ext Carnegie Pa  
 PLASTER PATCH United Gilonite Laboratories 1396 Jefferson Av Scranton 1 Pa  
 PLASTIC ROCK United Laboratories Inc 16801 Euclid Av Cleveland 12 Ohio  
 PLASTIC WOOD Boyle-Midway Inc 22 E 40th New York 16 NY  
 PLASTIGLASS Flex-O-Glass 1100 No Cicero Chicago 51 Ill  
 PLASTI-GLAZE Plastic Prods Co 6473 Georgia Detroit 11 Mich  
 PLASTIKOTE Chicago Bronze & Color Wks 2673 W Grand Av Chicago 12 Ill  
 PLASTIMENT Sika Chemical Corp 35 Gregory Av Passaic NJ  
 PLASTISHADE Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
 PLASTOID Plastic Prods Co 6473 Georgia Detroit 11 Mich  
 PLASWOOD Southern Plaswood Corp Box 123 Hope Ark  
 PLATON, Minnesota Platon Corp Platon Bldg Pipestone Minn  
 PLIKOTE SEALER Kleen-Kote Co 601 W 80th Chicago 20 Ill  
 PLUG-IN STRIP National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa

PLUGMOLD Wiremold Co Station A Hartford 10 Conn  
 PLUMB LINE Eberhard Faber Pencil Co 37 Greenpoint Av Brooklyn 22 NY  
 PLURALITE Mississippi Glass Co 88 Angelica St Louis 7 Mo  
 PLYBASE Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 PLYCO Kohl Co Elkhart Lake Wis  
 PLYFORM Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 PLYMOLD Co 2707 Tulare Av Burbank Cal  
 PLYMOLITE Plymold Co 2707 Tulare Av Burbank Cal  
 PLYMOUTH Gerber Plumbing Fixtures 232 N Clark Chicago Ill  
 PLYPANEL Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 PLYRON Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 PLYSCORD Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 PLYSHIELD Douglas Fir Plywood Assn 1119 "A" St Tacoma Wash  
 POLISHED MISCO Mississippi Glass Co 88 Angelica St Louis 7 Mo  
 POLLARD PATTERN WHEELS Collmer Bros 420 S St Joseph South Bend 1 Ind  
 POLYFLEX Lockwood Hdwe Mfg Co Fitchburg Mass  
 PONTIAC Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
 PORETE Porete Mfg Co Porete Av North Arlington NJ  
 PORETHERM Porete Mfg Co Porete Av North Arlington NJ  
 POREX Porete Mfg Co Porete Av North Arlington NJ  
 PORTER SPRING WINDER Advance Car Mover Co Inc 112 N Outagamie Appleton Wis  
 POSTMASTER Master Addresser Co 6500 W Lake Minneapolis 16 Minn  
 POWER HELPER Metzgar Conveyor Co 413 Douglas NW Grand Rapids 4 Mich  
 POWERBURE FURNACES Jackson & Church 321 N Hamilton Saginaw Mich  
 POWERLINE Chelsea Fan & Blower Co Inc 639 South Av Plainfield NJ  
 POWERSTAT WALLBOX Superior Electric Co 83 Laurel Bristol Conn  
 POWER-TWIN Owatonna Tool Co 341 Cedar Owatonna Minn  
 POWE-BLADE Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill  
 POWERMATIC Kresno-Stamm Mfg Corp 400 Commercial Av Palisades Park NJ  
 PRECIPITRON Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Pk Boston 36 Mass  
 PRECISION-CONTOUR Amerco Plastics Co 177 Broadway New York 7 NY  
 PRECISION FOLDING STAIRWAY Precision Parts Corp 400 N First Nashville 7 Tenn  
 PREMIER Mackin Venetian Blind Co 300 W Sixth Muncie Ind  
 PREMIER Metal Trims Inc Box 1072 Youngstown 1 Ohio  
 PREMIER Premier Furnace Co Box 150 Dowagiac Mich  
 PREMOULDED MEMBRANE Meadows (W R) Inc 2-18 Kimball Elgin Ill  
 PRESERVATEX Kedmont Mfg Co Div Concrete Restoration Co 330 S Dearborn Chicago 4 Ill  
 PRESSWELD Service Caster & Truck Corp 549 N Broadway Av Albion Mich  
 PRESTELINE Stevens (Geo T) & Associates 612 N Michigan Av Suite 205 Chicago 11 Ill  
 PREST-O-LOYD Garrison Wagner Co 2018 Washington St Louis 3 Mo  
 PRESTO LOGS New Mexico Timber Co Box 988 Albuquerque NM  
 PRESTO-SET United States Plywood Corp 55 W 44th New York 36 NY  
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 PROJECT-O-VENT Superior Window Co 5300 NW 37th Av Miami Fla  
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 PROTANE Protane Corp Box 1898 Erie Pa  
 PROTECTUB Protectub Inc 71 Ludlow New York 2 NY  
 PROTEKWOOD United States Plywood Corp 55 W 44th New York 36 NY  
 PROTEX Autylene Lubricants Co 1331 W Evans Denver 9 Colo  
 PROTEX Wayne Chemical Prods Co Copeland & MC RR Detroit 17 Mich  
 PROTEXEM BRUSH CONDITIONER Wisconsin Laboratories Inc Dousman Wis  
 PROTEXIDE Protexol Corp 162 Market Kenilworth NJ  
 PROTEXOL Protexol Corp 162 Market Kenilworth NJ  
 PROTO TOOLS Proto Tool Co 2209 Santa Fe Av Los Angeles 54 Cal

PRY-LITE Pryne & Co Inc 140 N Towne Pomona Cal  
 PRYMALL Mobile Paint Mfr Co Inc Box 1686 Mobile Ala  
 PRYME-SHAKES Cree-Dipt Co Inc 956 Oliver North Tonawanda NY  
 PRYME-SHAKES Weatherbest Corp 986 Oliver North Tonawanda NY  
 PRYNE HEATER Pryne & Co 140 N Towne Pomona Cal  
 PRYNE HOOD Pryne & Co 140 N Towne Pomona Cal  
 PULL E-Z Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
 PULPWOOD YARDSTER Taylor Machine Wks Louisville Miss  
 PURDY'S GOOD Purdy Brush Co 6525 N Lombard Portland 3 Ore  
 PURE-WITE Certain-feed Prods Corp 120 E Lancaster Av Ardmore Pa  
 PURITAN Puritan Cordage Mills Inc 1205 E Washington Louisville 6 Ky  
 PURLUL Interchemical Corp Wooster Unit Wooster Ohio  
 PUSH E-Z Service Caster & Truck Corp 540 N Brownwood Av Albion Mich  
 PUSHMATIC ELECTRI-CENTERS Bulldog Electric Prods Co 7610 Joseph Campau Box 177 Detroit 32 Mich  
 PUTITE Ever-Plastics Corp 420 Lexington Av New York 17 NY  
 PYLE Pyle-National Co 1334 N Kostner Av Chicago 51 Ill  
 PYLETS Pyle-National Co 1334 N Kostner Av Chicago 51 Ill  
 PYRAMID Goulds Pumps Inc 75 Fall Seneca Falls NY  
 PYRESETE Protexol Corp 162 Market Kenilworth NJ  
 PYROBARK United States Gypsum Co 300 W Adams Chicago 6 Ill  
 PYROFAX Pyrofax Gas Co Union Carbide & Carbon Corp 30 E 42nd New York 17 NY

**Q**

Q SEAL Quigley Co Inc 527 Fifth Av New York 17 NY  
 QUAKER Quaker Mfg Co 1147 Merchandise Mart Chicago Ill  
 QUAKER Seiditz Paint & Varnish Co 18th & Garfield Kansas City Mo  
 QUALITYBELT Farley & Loetscher Mfg Co Dubuque Iowa  
 QUEEN Toledo Desk & Fixture Corp 1020 Ford Rd Maumee Ohio  
 QUEEN CITY Richbill Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio  
 QUICK CUT O'Brien Corp 101 N Johnson South Bend 21 Ind  
 QUICK-CUTTER Hartmeister Mfg Co Inc 2020 W Barberly Pl Denver 4 Colo  
 QUICK-MIX Ohio Hydrate & Supply Co Woodville Ohio  
 QUICK-NAMEL Minnesota Paints Inc 1101 Third S Minneapolis 15 Minn  
 QUICK PLUG Reardon Co 7501 Page Av St Louis 14 Mo  
 QUICK SERVICE Diener (George W) Mfg Co 400 N Monticello Av Chicago 24 Ill  
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 QUICK STICK Commercial Paste Co Buttes at Michigan Columbus 8 Ohio  
 QUIGLEY Quigley Co Inc 527 Fifth Av New York 17 NY  
 QUIKBRIK American Cement Prods 15496 Livorno Detroit Mich  
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 QUIK-WAY FURRING CLIPS Peterson Prods Co Box 462 Janesville Wis  
 QUINN Quinn Wire & Iron Wks 1200 Cedar Rd Boone Iowa  
 QUIN-SEE Modern Iron Wks 540 S Fifth Quincy Ill  
 QUONSET Great Lakes Steel Corp Stran Steel Div Ecorse Detroit 29 Mich

**R**

RFD BROWNSKIN Angier Corp Fountain St Framingham Mass  
 RIW FLINTOX Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 RIW ROCKTOP Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 RIW TOXEMENT Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 RIW SUPER TOXLOXOPORE Toch Bros Inc 2600 Richmond Terrace Staten Island NY  
 RIW 232 Toch Bros Inc 2600 Richmond Terrace Staten Island 3 NY  
 R & M Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio  
 R O W H O W Sales Co 1365 Academy Fernside 20 Mich  
 R-LITE Arvey Corp 3462 N Kimball Chicago 11 Ill  
 RACK-A-NEER Ken-Ro-Bil Co Van Buren Ohio  
 RACO All Steel Equipment Inc 245 John Aurora Ill



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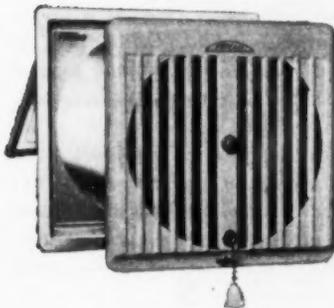
# FASCO

VENTILATING FANS ARE  
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"We do not look upon a kitchen ventilating fan as an 'extra'. To us, it is standard equipment because it helps sell houses and is an integral part of modern interior design, particularly now that open planning of rooms is so popular.

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VENTILATING FAN

OPERATES AUTOMATICALLY—release chain, door opens, fan starts; pull chain, fan stops, door closes. Weather-proof, insect-proof, and rust-proof. Designed for outside walls 4 1/4" to 15" thick. Builders everywhere are adopting this sturdy, efficient, low cost ventilating fan. 847, 8" blade, 475 CFM; 1047, 10" blade, 650 CFM.



The compact yet roomy kitchens are features in the Long Island "Trade Secrets" houses being built by Stackler & Frank in their new \$35,000,000 planned community of Mid-Island Park in Hicksville, Long Island.

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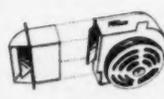


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**RAIN-TITE Clifton Mfg Co** 323 Pleasant E Waco Texas  
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**RAMSET JOBMASTER Ramset Div Olin Industries Inc** 12117 Berea Rd Cleveland 11 Ohio  
**RAMSET PLUS-POWER JOBMASTER** Ramset Div Olin Industries Inc 12117 Berea Rd Cleveland 11 Ohio  
**RAMSET TRU-SET FASTENERS** Ramset Div Olin Industries Inc 12117 Berea Rd Cleveland 11 Ohio  
**RANBURN** Ranburn Co Inc 112 Killewald Av Tonawanda NY  
**RANCHO Tubbs Cordage Co** 104 Sansome San Francisco Cal  
**RANDOMWOOD United States Plywood Corp** 55 W 44th New York 36 NY  
**RANGE-VENTOR Universal Blower Co** 1090 S Adams Av Birmingham Mich  
**RA-TOX Hough Shade Corp** 1203 S Jackson nesville Wis  
**RAY Ray Oil Burner Co** 1301 San Jose Av San Francisco 12 Cal  
**RAZON Tremco Mfg Co** 8701 Kinsman Rd Cleveland Ohio  
**READING Hardware Prods Co Inc** 806-12 126th Reading Pa  
**READING Reading Crane & Hoist Corp** 2100 Adams Reading Pa  
**READY HUNG DOORS** Ready Hung Door Corp 204 Neil P Anderson Bldg Fort Worth Texas  
**READYBUILT FIREPLACES** Readybuilt Prods Co 1707-23 McHenry Baltimore 23 Md  
**RED BRAND Keystone Steel & Wire Co** 7000 S Adams Peoria 7 Ill  
**RED CAP Warner Ventilator Co** 217 E Spring LaGrange Ind  
**RED CHIEF Hartwell Bros Hollywood Station** Memphis 8 Tenn  
**RED CROWN Hynes & Cox Electric Co** Co-hoes Rd & Elm Watervliet N Y  
**RED DEMON American Kitchens Div Avco Mfg Corp** 18th & Columbia Connersville Ind  
**RED DEVIL TOOLS** Red Devil Tools 130 Coit Irvington NJ  
**REDDI-MOUNT Chesler (J) & Sons Inc** 41-49 Varick Av Brooklyn 37 NY  
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**RED END Simonds Saw & Steel Co** 470 Main Fitchburg Mass  
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**RED STRIFE Pittsburgh Plate Glass Co** 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**RED TAG Cyclone Fence Dept American Steel & Wire Div US Steel Corp** Box 260 Waukegan Ill  
**RED TANG Simonds Saw & Steel Co** 470 Main Fitchburg Mass  
**RED TOP Keystone Steel & Wire Co** 7000 S Adams Peoria 7 Ill  
**RED TOP United States Gypsum Co** 300 W Adams Chicago 6 Ill  
**RED WING Pittsburgh Plate Glass Co** 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
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**REDI-FENCE Tennessee Fabricating Co** 1490 Grimes Memphis Tenn  
**REDI-GATE Tennessee Fabricating Co** 1490 Grimes Memphis Tenn  
**REDI-HOSE REEL Craco Corp** 1703 Alamo Dr Glendale 7 Cal  
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**REDUCIT O'Brien Corp** 101 N Johnson South Bend 21 Ind  
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**RELITE Appleton Electric Co** 1701-59 Wellington Av Chicago 13 Ill  
**REFLECTO Reflecto Letters Inc** 411 E 101st New York 29 NY  
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**RELIABLE Reliable Paste & Chemical Co** 3560 Shields Av Chicago 9 Ill  
**RELIABLE Richbitt Mfg Co** 3277 Spring Grove Av Cincinnati 26 Ohio

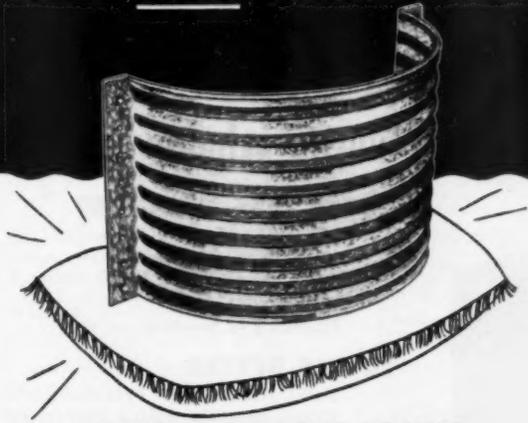
**RELIABLE Root-Lowell Corp** 445 N Lake Shore Dr Chicago 11 Ill  
**RELIANCE (R) Reliance Mfg Co Inc** 626 SE Stark Box 2231 Portland 14 Ore  
**RELY-ON Armstrong Co** 1001 E 103rd Chicago 28 Ill  
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**RE-MO-TROL Templeton Kenly & Co** Gardner Rd Broadview Ill  
**REMOV-A-SEAL Farley & Loetscher Mfg Co** Dubuque Iowa  
**RE-NU-IT Re-Nu-It Corp** 424 W 42d New York 36 NY  
**REPUBLIC STEEL KITCHENS** Berger Mfg Div Republic Steel Corp 1038 Belden Av NE Canton 5 Ohio  
**RESINIZED SPEED-GRITS** Behr-Manning Corp Div Norton Co 1554 Seifert Troy NY  
**RESOLITE Resolite Corp** Zelenoplea Pa  
**RESTOREX Penetone Co** 74 Hudson Av Tenafly NJ  
**RESURFO Reardon Co** 7501 Page Av St Louis 14 Mo  
**REVOLVO Frick Gallagher Mfg Co** Michigan Av Wellston Ohio  
**REX Chain Belt Co** 1600 W Bruce Milwaukee 1 Wis  
**REX Cleveland Heater Co** 2310 Superior Av Cleveland 14 Ohio  
**REX Kees (F D) Mfg Co** 700 Park Av Beatrice Neb  
**REX AIRATE Cleveland Heater Co** 2310 Superior Av Cleveland 14 Ohio  
**REX-AIR-PAK Cleveland Heater Co** 2310 Superior Av Cleveland 14 Ohio  
**REZ Roddis Plywood Corp** 1155 Palmetto Marshfield Wis  
**REZO Paine Lumber Co Ltd** 73 W Algona Oshkosh Wis  
**RICE Rice Pump & Machine Co** 400 Park Av Belgium Wis  
**RICHHEAD Richkraft Co** 510 N Dearborn Chicago 10 Ill  
**RICHBILT SAFETY Richbitt Mfg Co** 3277 Spring Grove Av Cincinnati 25 Ohio  
**RICHFLEX Richkraft Co** 510 N Dearborn Chicago 10 Ill  
**RICHKRAFT Richkraft Co** 510 N Dearborn Chicago 10 Ill  
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**RIFFLE-FIN-RIFFLE-TUBE** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn  
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**RITE-LOCK Adams Rite Mfg Co** 540 W Chevy Chase Dr Glendale 4 Cal  
**RITE-PULL Adams Rite Mfg Co** 540 W Chevy Chase Dr Glendale 4 Cal  
**RIVERBANK DOOR Hardware Prods Corp** 164 Lake Neenah Wis  
**ROACH CAFE** Aqchem Inc Div Kalo Co 506 Maine Quincy Ill  
**ROBBINS Robbins Floor Prods Inc** Tuscumia Ala  
**ROBBINS FLAME SYSTEM** Robbins Lightning Protection Co 124 E 2nd Maryville Mo  
**ROBBINS LAY-TITE** Robbins Flooring Co Reed City Mich  
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**ROCK ISLAND Birtman Electric Co** 4140 Fullerton Av Chicago 39 Ill  
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**ROCK-TEX Rockford Paint Mfg Co** 200 Sayre Rockford Ill  
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**ROGERS FAMOUS LIQUID FISH GLUE** Rogers Isinglass & Glue Co 210 Eastern Av Gloucester Mass  
**ROLL-A-BAG Kees (F D) Mfg Co** 700 Park Av Beatrice Neb  
**ROLITON Roliton of America** 714 E Van Buren Phoenix Arizona  
**ROLLA-HEAD Eastern Machine Prods** 1601 Wicomico Baltimore 30 Md  
**ROLLAWAY Frantz Mfg Co** 301 W 3rd Sterling Ill  
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**ROLTITE CEMENT** Midcontinent Adhesive Co 70 W Park Grove City Ohio  
**ROL-TOP Kinnear Mfg Co** Seventh & Fields Av Columbus 16 Ohio  
**ROLY-DOOR Morrison Steel Prods** 601 Amherst Buffalo 7 NY  
**ROOFINSUL Johns-Manville** 22 E 40th New York 16 NY  
**ROOS COLUMN CLAMPS** Baker-Roos Inc 602 W McCarty Indianapolis 6 Ind  
**ROOSHORS Baker-Roos Inc** 602 W McCarty Indianapolis 6 Ind  
**ROTARY Swartwout Co** 18511 Euclid Av Cleveland 12 Ohio  
**ROTECIDE Rotenone Prods Co** 110 Eaton Pl East Orange NJ  
**ROTO SPEED PLANER** Honeycutt Mfg Co Inc 2715 Oak Kansas City 8 Mo  
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**ROTO-TRAY American Kitchens Div** Avco Mfg Corp 18th & Columbia Connersville Ind  
**ROTO-WATERS Sedgewick Machine Wks** 154 W 15th New York 11 NY  
**ROT-STOP Rockford Paint Mfg Co** 200 Sayre Rockford Ill  
**RO-WAY Rowe Mfg Co** 614 W Third Galesburg Ill  
**ROXBOARD National Tileboard Corp** 1314 Blondell Av New York 61 NY  
**ROX MASONRY PAINT** Rox Prods Co 9930 Grand Detroit 37 Mich  
**ROYAL Chattanooga Royal Co** E Chattanooga Tenn  
**ROYAL Independent Metal Strap Co Inc** 230 Third Brooklyn 15 NY  
**ROYAL Sloan Valve Co** 4300 W Lake Chicago 24 Ill  
**ROYAL Special Prods Co** Judd St Chattanooga 6 Tenn  
**ROYAL DEXTER Russell Harrington Cutlery Co** 44 River Southbridge Mass  
**ROYAL EAGLE Eagle Rule Mfg Corp** 505 Hunts Point Av New York 59 NY  
**ROYAL-WOOD Mengel Co** 4th & Colorado Louisville 1 Ky  
**RUBBERCOAT** Williams & Williams Co 130 Lincoln Brighton 35 Boston Mass  
**RUBBERCOTE Thomas Moulding Floor Co** Inc 325 W Huron Chicago 10 Ill  
**RUBBERLOCK Mitchell Rubber Prods Inc** 2130 San Fernando Rd Los Angeles 65 Cal  
**RUBBERSHIELD Verflex Sales Corp** 115-17 Moonachie Av Carlstadt NJ  
**RUB-R-BASE Masury (John W) & Son Inc** 1700 Bayard Baltimore 30 Md  
**RUGBY Standard Brick & Tile Corp** 123 NW Fourth Evanville 8 Ind  
**RUNWELL Frantz Mfg Co** 301 W 3rd Sterling Ill  
**RUSSELL Russell Harrington Cutlery Co** 44 River Southbridge Mass  
**RUST-NOMO-RE Masury (John W) & Son Inc** 1700 Bayard Baltimore 30 Md  
**RUST-OLEUM Rust Oleum Corp** 2425 Oakton E Evanston Ill  
**RUSTREM Speco Inc** 7308 Associate Av Cleveland 9 Ohio  
**RUUDIATOR Ruud Mfg Co** 2934 Smallman Pittsburgh 1 Pa  
**RUUD-MONEL Ruud Mfg Co** 2934 Smallman Pittsburgh 1 Pa  
**RYOLEX Silbrico Corp** 5901 W 66th Chicago 38 Ill

**S**

**SBP Berger Furnace Mfg Co** 5920 Centre Av Pittsburgh 6 Pa  
**S I S Barrett Div Allied Chemical & Dye Corp** 40 Rector New York 6 NY  
**S-P Aerovent Fan Co Inc** Ash & Beacon Piqua Ohio  
**SP Service Parts Systems Inc** 15102 Charlevoix Av Grosse Pointe 30 Mich  
**S P SUPREME Southern Pine Lumber Co** Diboll Tex  
**S R P Sonneborn (L) Sons Inc** Building Prods Div 404 Fourth Av New York 16 NY  
**SABINITE United States Gypsum Co** 300 W Adams Chicago 6 Ill  
**SAFE-O-MATIC Cprofoot Mfg Co** 217 Evergreen Mount Prospect Ill  
**SAFE TREAD Safe Tread Co Inc** 30 Vesey New York 7 NY  
**SAFETECH Capewell Mfg Co** 60-70 Governor Hartford 2 Conn  
**SAFETEE Safete Glass Co** 4717 Stenton Av Philadelphia 44 Pa  
**SAFETY PULL Cuffing Hoist Co** 800 Walters Danville Ill  
**SAFETY TRUCK BRAKE** Advance Car Mover Co Inc 112 N Outagamie Appleton Wis  
**SAF-T-CUT Ray State Abrasive Prods Co** Union St Westboro Mass  
**SAF-TE Wilson Imperial Co** 115 Chesnut Newark 5 NJ  
**SAF-T-LOCK Certain-teed Prods Corp** 120 E Lancaster Av Ardmore Pa

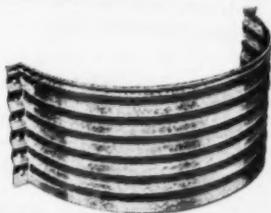
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OF BETTER BUILDING**

*Custom* **DELUXE QUALITY**

One of the proofs you can give of quality building is to use USF *Custom Deluxe Quality* Window Wells. They are made of heavy gauge steel, deep corrugated with a full turned reinforcing bead to add strength across entire top. Flat mounting flanges hug masonry tight. Extra heavy bright galvanize finish gives maximum reflectance and longest service.



**FINEST LOW COST WELL MADE**

For absolute best quality at economy prices, use the USF *Standard* Window Well—one standard size for most openings. Heavy gauge steel, completely corrugated (not just ribbed) with flat crimped reinforcing bead and wide mounting flanges. Extra bright galvanized but still low, low priced.



**See Your  
Building Supply Dealer**



**AND SELL YOUR HOUSES FASTER**

A proven fact! Ask any builder who installs BILCO Doors. He'll tell you it's the best selling feature he ever used. Home buyers sign up fast when basements are useful, livable and safe. Don't "date" your homes — investigate America's fastest growing building product . . . the BILCO all-metal permanent door.

Direct access to the basement eliminates tracking mud and dirt through the upstairs rooms. Countless steps are saved by repairmen, servicemen and the home owner. It's the only means of installing big equipment necessary for a work shop, recreation room or extra living room.



*Check all these  
Bilco Benefits!*

- ECONOMICAL!**
- LIFE-TIME DURABILITY!**
- WEATHER-TIGHT!**
- FIRE-PROOF!**
- BURGLAR-PROOF!**

**Bilco**

**THE BILCO CO., 110 HALLOCK AVE., NEW HAVEN, CONN.**

Please send me complete information on the BILCO DOOR, sizes, prices and dealers' names.

I build  10 or less  10-100  100-500 houses

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

# TENSION-tite\*

the builder's favorite window screen



## **COSTS LESS INSTALLED**

You save both on initial cost and on labor. TENSION-tite screens are accurately installed from inside within 4 to 5 minutes.

No fitting or painting... ever!

## **LOOKS BETTER**

Trim, streamlined TENSION-tite screens have the neatest appearance and admit the most light of any window screen.

## **LASTS LONGER**

Made entirely of aluminum. No dissimilar metals to cause corrosion... no steel parts to rust. They last for years and years.

## **SIMPLEST HARDWARE**

Bottom catches are released by pushing down and out. There are no knobs or levers to attract children. Tension can be adjusted with screwdriver so that youngsters cannot open screen.

## **WON'T SPLIT BLIND STOP**

Tension is applied by two screws driven into the thick sill, rather than by screws driven into the narrow, exposed, and often brittle blindstop.

## **NO CENTER BOW**

TENSION-tite screens never bow in the middle because an extra center catch is automatically added to all TENSION-tite screens over 3'-0".

\*Trade mark of Rudiger-Lang Co.



## **RUDIGER-LANG CO.**

Suite 310, International Trade Mart, New Orleans 12, La.  
2701 Eighth Street, Berkeley 10, California  
In Southern California: TENSION-tite Window Screen Co.,  
8473 Beverly Boulevard, Los Angeles 48, California

it's  
**TENSION-tite**  
with  
builders  
who know

AMERICAN BUILDER

**SAPTI-VENT** Little (H C) Giant Prods Inc 1530 N Adams Peoria 3 Ill

**SAFEMAY** Lokan-Long Co 6600 S Central Av Chicago 38 Ill

**SAFWAY** Safeway Steel Prods Inc 6228 W State Milwaukee Wis

**ST PAUL** St Paul Corrugating Co South End Wabasha St Bridge St Paul 1 Minn

**SALEM** Johns-Manville 22 E 40th New York 16 NY

**SALEM LINE** Irmanton Prods Co 37-26 Prince Flushing LI NY

**SAL-MO** Sall Mountain Co Box 777 Hamilton Ohio

**SAMCO** Syracuse Alloy Metals Corp 316-324 Pearl Syracuse 3 NY

**SAMPSON** Richbit Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio

**SANACOUSTIC** Johns-Manville 22 E 40th New York 16 NY

**SANATOR** Pittsburgh Incinerator Co 130 Beam Way Pittsburgh 11 Pa

**SANDMASTER** Atlas Floor Surfacing Machinery Corp 248 E 34th New York 16 NY

**SANDRAN** Sandura Co Inc Architects Bldg 17th & Sansom Philadelphia 3 Pa

**SAN-EQUIP** San-Equip Inc E Brighton & Glen Aves Syracuse 5 NY

**SAND-SCOTT** Holub Industries Inc 413 DeKalb Av Sycamore Ill

**SANETTE** Master Metal Prods Inc 291 Chicago Buffalo 4 NY

**SANI-FLAT** Benjamin Moore & Co 511 Canal New York 13 NY

**SANI-KLEN** Hudson (H D) Mfg Co 589 E Illinois Chicago 11 Ill

**SANIMASTER** Ruud Mfg Co 2934 Smallman Pittsburgh 1 Pa

**SANI-SETT** Ever-Plastics Corp 420 Lexington Av New York 17 NY

**SARGENT** Sargent & Co 45 Water New Haven 9 Conn

**SATIN-LITE** Wallace Mfg Co 10th & Fayette North Kansas City Mo

**SATIN SPAR** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa

**SATINHIDE** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa

**SATINLAC** United States Plywood Corp 55 W 44th New York 36 NY

**SATINOL** Blue Ridge Glass Corp Libbey-Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio

**SATINTEX** Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo

**SATINTONE** Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo

**SATUROCK** Carter-Waters Corp 2440 Pennway Kansas City Mo

**SAUNDERS PATTERN WHEELS** Collmer Bros 520 S St Joseph South Bend 1 Ind

**SAVABRUSH** Schalk Chemical Co 351 E Second Los Angeles 12 Cal

**SAV-A-SCREEN** Farley & Loetscher Mfg Co Dubuque Iowa

**SAV-U-TIME** Sav-U-Time Sales Co 88 Manhattan Rochester 7 NY

**SAVINOLEM** Pavinoelem Inc 1239 St Nicholas Av New York 32 NY

**SAW MASTER** Master Woodworker Mfg Co Inc 401-11 E Fort Detroit 26 Mich

**SCHLAGE** Schlage Lock Co 2201 Bayshore Blvd San Francisco 19 Cal

**SCHUNDLER MICA PELLETS** Schundler (F E) & Co Inc 504 Railroad Joliet Ill

**SCOOPMOBILE** Mixermobile Mfrs 8027 NE Killingsworth Portland 20 Ore

**SCOUT** Slaymaker Lock Co 115 S West End Av Lancaster Pa

**SCREEN-GLASS** Flex-O-Glass 1100 N Cicero Chicago 51 Ill

**SCREENMASTER - STANDARD** Engineered Prod Co 129 Smith Cox 118 Flint 4 Mich

**SEBFAST** Maze (W H) Co Church & The River Peru Ill

**SECTUL O M** Scott & Sons Co Marysville Ohio

**SEA SWIRL** Associated Plywood Mills Inc Box 672 Eugene Ore

**SEAL-ALL-ROOF CLIPS** Seal-All-Clip Co 4376 W Pasadena Box 302 Flint Mich

**SEALCURE** #66 Tuffalt Inc 137 Bausman Pittsburgh 10 Pa

**SEAL GRIP** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ

**SEALIT** Sullivan Co 212 E Trigg Av Memphis Tenn

**SEAL-LOCK** Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill

**SEAL RITE** Seal Rite Caulking Co 6335 Lyndon Detroit Mich

**SEALTEC** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ

**SEALTIGHT** Meadows (W R) Inc 2-18 Kimball Elgin Ill

**SEAL-TITE** Grand Rapids Hdwe Co 560 Eleventh St NW Grand Rapids 2 Mich

**SEALTOP** Modern Venetian Blinds Inc 261 Fifth Av New York 16 NY

**SEAL-TREAT** Chapman Chemical Co 707 Derron Bldg Memphis Tenn

**SEALUXE** Universal Corp 6710 Denton Dr Dallas Tex

**SEASON-ALL** Prentice (F W) & Co 430 N Dean Adrian Mich

**SEASON-MASTER** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn

**SECRET SERVICE** Master Lock Co 2600 N 32nd Milwaukee 45 Wis

**SECTIONFOLD DOORS** Wilson (J G) Corp 370 Lexington Av New York 17 NY

**SECURIT** Blue Ridge Glass Corp Libbey-Owens-Ford Sales Agent Nicholas Bldg Toledo 3 Ohio

**SECURITY** Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill

**SEDCO WINDMASTER** Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Texas

**SEDCON** Sterling Electronic Door Control Corp 323 W Second Rock Falls Ill

**SEIDLITZ BEST BY TEST** Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo

**SELCKRAFT** Selck (Walter E) & Co 225 W Hubbard Chicago 10 Ill

**SELECT-O-PHONE** Kellogg Switchboard & Supply Co 79 W Monroe Chicago 3 Ill

**SEMINOLE** Chicago Paints Inc 4500 W 14th Chicago 23 Ill

**SENECA** Seneca Wire & Mfg Co Vine St Fostoria Ohio

**SENIOR** Penetone Co 74 Hudson Av Tenafly NJ

**SENTINEL** Allied Metals Inc 14 Hamilton New London Conn

**SENTINEL** Speakman Co 30th & Spruce Wilmington 99 Del

**SENTRY STOP-A-DRAFT** Sentry Stop a Draft Co 20 N Wacker Dr Chicago 6 Ill

**SEPCO** Seppo Corp 860 Cross Pottstown Pa

**SERVANET** Hyde Park Prods Co Burch Av & N&WRR Cincinnati 8 Ohio

**SERVEL** Servel Inc 119 N Morton Av Evansville 20 Ind

**SERVICE-MASTER** McCabe Powers Auto Body Co 5900 S Broadway St Louis 15 Mo

**SERVICE-WAY** Heater Inc 661 E Brighton Av Syracuse 5 NY

**SEVENTY** Glen Gery-Shale Brick Corp Box 182 Wyomissing Pa

**#77** Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill

**SHADE-BETTER** Clifton Mfg Co 323 Pleasant E Waco Texas

**SHAD-O-LINE** Upson Co 43 Upson Pt Lockport NY

**SHADOWEDGE** Ruberoid Co 500 Fifth Av New York 36 NY

**SHADOWLINE** Long Fir Gutter Co 418 Lincoln Av Cadiz Ohio

**SHALETEX** Streator Brick Co Div Hydraulic Press Brick Co 321 E Main Streator Ill

**SHALIMAR** Breneman-Hartshorn Inc 2945 Reading Rd Cincinnati 2 Ohio

**SHAM-ROCK** Masonry Waterproofing Co Inc Box 1061 North Station Arlington 7 Va

**SHARP SMITH** Belsaw Machinery Co 315 Westport Rd Kansas City 11 Mo

**SHARP'S AUTOMATIC FRAMING SQUARE** Sharp's Mfg Co Box 332 Salem Ore

**SHASTA** Wooster Brush Co Madison Av Wooster Ohio

**SHAW** Quinn Wire & Iron Wks 1200 Cedar Rd Boone Ia

**SHAW-BOY** Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc 414 Broadway Muskegon Mich

**SHAWNEE SCOUT DITCHER** Shawnee Mfg Co Inc 1947 N Topeka Kan

**SHAWNEE HYDRO-CLAM** Shawnee Mfg Co Inc 1947 N Topeka Topeka Kan

**SHEDWELL** Frantz Mfg Co 301 W 3rd Sterling Ill

**SHERROCK** United States Gypsum Co 300 W Adams Chicago 6 Ill

**SHEFFIELD** Sheffield Steel Corp Sheffield Sta Kansas City 25 Mo

**SHELBY** Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal

**SHELBY** Shelby Spring Hinge Co Shelby Ohio Av Chicago 18 Ill

**SHELLANE** Shell Oil Co 50 W 50th New York 20 NY

**SHERARDUCT** National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa

**SHIELDALL** Youngstown Industries Inc 710 S State Girard Ohio

**SHINGLE-BACKER** Insulite Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn

**SHINGLE-SEAL** Dewatex Mfg Co 424 W 42nd New York 18 NY

**SHINGLISTIK** Old American Roofing Mills 7600 Truman Rd Kansas City Mo

**SHINO** Pioneer Mfg Co 3063-57 E 87th Cleveland 4 Ohio

**SHIRLEY** Shirley Corp 330 E St Joseph Indianapolis 2 Ind

**SHOPMASTER** Shopmaster Inc 1214 S 3rd Minneapolis Minn

**SHOVELOADER** Baker-Lull Corp 314 W 90th Minneapolis 20 Minn

**SHOWELL** Schwartz Showell Corp 842 Goodale Blvd Columbus 8 Ohio

**SHOWERMASTER** Harrison Steel Cabinet Co 4718 W 5th Av Chicago 44 Ill

**SHOWER-PROOF** Calbar Paint & Varnish Co 2612 N Martha Philadelphia 25 Pa

**SHUR EDGE** Robeson Cutlery Co Inc 3646 Case Perry NY

**SHUREBOND** UNIT SYSTEM Goldsmith Metal Lath Co 4501 Chickering Av Cincinnati Ohio

**SHURLOK** Pass & Seymour Inc 50 Boyd Av Syracuse NY

**SHURON FLOOR** Hooker Glass & Paint Mfg Co 659 W Washington Chicago 6 Ill

**SHUR-TRED** Johnson (S C) & Son Inc 1525 Howe Racine Wis

**SIBLEY** Sibley (Edw L) Mfg Co Inc 222 W Main Bennington Vt

**SI-CLONE** Simonds Saw & Steel Co 470 Main Fitchburg Mass

**SIERRA** Fiat Metal Mfg Co 9301 Belmont

**SI-FLO** Speakman Co 30th & Spruce Wilmington 99 Del

**SIGNAL** Signal Electric Mfg Co 1821 13th Menominee Mich

**SIGNWRITERS** Commonwealth Pain & Varnish Co 4124 W Parker Av Chicago 39 Ill

**SIGUNIT** Sika Chemical Corp 35 Gregory Av Passaic NJ

**SIKACRETE** Sika Chemical Corp 35 Gregory Av Passaic NJ

**SIKA KOTE** Sika Chemical Corp 35 Gregory Av Passaic NJ

**SIKA SEAL** Sika Chemical Corp 35 Gregory Av Passaic NJ

**SILAKOTE** Weatherguard Service Inc 564 Jackson Av New York 55 NY

**SILATEX** Stanley (Wm W) Co Inc 401 Broadway New York 13 NY

**SILATEX** Tamms Industries Inc 228 N LaSalle Chicago 1 Ill

**SILENDOR** Weisberg-Baer Co 405 26th Av Long Island City 2 NY

**SILENTVANE** Westinghouse Electric Corp Box 868 Pittsburgh 30 Pa

**SILICONIZ** Lockrey Co Southampton New York

**SILIPHANE** Prima Prods Inc 10 E 40th New York NY

**SILITEX** Prima Prods Inc 10 E 40th New York NY

**SILL-SEALER** Wood Conversion Co 1st National Bank Bldg St Paul 1 Minn

**SIL-O-ETT** United States Gypsum Co 300 W Adams Chicago 6 Ill

**SILVERCOTE DUPLEX** Silvercote Prods Inc 161 E Erie Chicago Ill

**SILVERCOTE SIMPLEX** Silvercote Prods Inc 161 E Erie Chicago Ill

**SILVERME** Seidlitz Paint & Varnish Co 18th & Garfield Kansas City Mo

**SILVER LAKE** Silver Lake Co 60 Battery-march Boston 10 Mass

**SILVER LINE** Union Machine Co 708 Colfax Av Kenilworth NJ

**SILVER SENTINEL** Slaymaker Lock Co 115 S West End Av Lancaster Pa

**SILVERTILE** Cheesman Elliot Co Inc 645 Kent Av Brooklyn 11 NY

**SIMPLEX** Crescent Brass & Pin Co 5760-5800 Trumbull Av Detroit 8 Mich

**SIMPLEX** Mansfield Sanitary Pottery Inc Perrysville Ohio

**SIMPLEX** Templeton Kenly & Co Gardner Rd Broadview Ill

**SIMPSON** Coast Insulating Prods 2316 San Fernando Rd Los Angeles 65 Cal

**SISALATION** Sisalkraft Co 205 W Wacker Dr Chicago 6 Ill

**SISALKRAFT** Sisalkraft Co 205 W Wacker Dr Chicago 6 Ill

**SITE-SAVER** International Lighting Co 6511 Easton St Louis 14 Mo

**6000 INDUSTRIALIST** Curtis Lighting Inc 6135 W 65th Chicago 38 Ill

**61** Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY

**SKID-LOADER** Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis

**SKID-SHOVEL** Drott Mfg Corp 3841 W Wisconsin Av Milwaukee 8 Wis

**SKIPPER** Astrup Co 2937 W 25th Cleveland 13 Ohio

**SKIPPER** Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill

**SKOTCH** Superior Fastener Corp 2949 El Chicago 18 Ill

**SKUFPRUF** Rickraft Co 510 N Dearborn Chicago 10 Ill

**SKY-BLAST** Robbins & Myers Inc 1345 Lagonda Av Springfield Ohio

**SKYLIFT** Automatic Transportation Co 101 W 87th Chicago 20 Ill

**SKYLINE** Toledo Desk & Fixture Corp 1020 Ford Rd Maumee Ohio

**SKYMASTER** Acme Equipment Co 213 E Broadway Muskegon Okla

**SKYTROL** Pittsburgh Corning Corp 1 Gateway Center Pittsburgh 22 Pa

**SLENDER** Dunkirk Radiator Corp 85 Middle Rd Dunkirk NY

**SЛИCK-SPRAY** Busch (A G) & Co Inc 2632 N Central Av Chicago 39 Ill

**SLIDE-A-FOLD** Craig-Wood Prods Co Brennan Rd Columbus Ga

**SLIDE-O-VENT** Rene-Craft Prods 406 Linden Av Wilmette Ill

**SLIDETOP** Curry Steel Prods Co 417 S Spring Independence Mo

**SLIDE-VIEW** Slide-View Steel Door & Window Co 521 N LaCienega Blvd Los Angeles 48 Cal

**SMALMESH** Inland Steel Prods Co Box 393 Milwaukee 1 Wis

**SMART SET** DELUXE Consolidated Venetian Blind Co Div Consolidated General Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex

**SMITH & EGGE** Turner & Seymour Mfg Co Lawton St Torrington Conn

**SMITHKO** Smith Chemical & Color Co Inc 55 John Brooklyn 1 NY

**SMITHMOBILE** Smith (T L) Co 2835 N 32nd Milwaukee Wis

**SMOOTH-LITE** Insulate Div Minn & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn  
**SMOOTH-ON** Smooth-On Mfg Co 574 Communipaw Av Jersey City 4 NJ  
**SMOOTH-RUN** Clover Mfg Co 333 Main Norwalk Conn  
Av Franklin Park Ill  
**SNAP-ALK** Seal Rite Caulking Co 6335 Lyndon Detroit Mich  
**SNAP-ON** Ideal Brass Wks Inc 250 E 5th St Paul 1 Minn  
**SN-60** Cedar-Lux Prods Co Inc 3244 Holmes Kansas City Mo  
**SNOW DRIFT** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**SNOWITE** Mission Lime Prods Corp Continental Chemical Co 841 Ducommun Los Angeles Cal  
**SNUG FIT** Paine Co Fullerton Av & Westgate Rd Addison Ill  
**SNUGGERS** Casement Hdwe Co 612 N Michigan Av Chicago 11 Ill  
**SNUG-TITE** Engineered Prods Co 129 Smith Box 118 Flint 4 Mich  
**SOFAMATIC** American Bed & Spring Co 5255 Delmar St Louis Mo  
**SO HARD SCREWS** Southington Hdwe Mfg Co 168 Center Southington Conn  
**SOLEX** Economics Laboratory Inc 914 Guardian Bldg St Paul 1 Minn  
**SOLAC** Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
**SOLIDOR** Farley & Loetscher Mfg Co Dubuque Iowa  
**SO-LITE** McKinley (Orman O) Co 4530 N Keystone Av Indianapolis Ind  
**SOLVAY AIR-DRYETTE** Solvay Process Div Allied Chemical & Dye Corp 61 Broadway New York 6 NY  
**SONOAIRODUCT** Sonoco Prods Co South St Hartsville SC  
**SONOAIRODUCT-XP** Sonoco Prods Co South St Hartsville SC  
**SONOASTIC** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**SONOMEND** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**SONOPATCH** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**SONOSHEEN** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**SONOTUBE** Sonoco Prods Co South St Hartsville SC  
**SOUNDBILT** Puget Sound Plywood Inc 230 East "A" Tacoma Wash  
**SOUTHGATE** Puritan Cordage Mills Co 1205 E Washington Louisville 6 Ky  
**SOVEREIGN** Speed-O-Print Corp 1801 W Larchmont Av Chicago 13 Ill  
**SPACE KLIPS** Reflector Hdwe Corp 2245 S Western Av Chicago 8 Ill  
**SPACE MASTER A R B** Window Sales Co 306 E State Fair Av Detroit 3 Mich  
**SPACE MASTER** Reflector Hdwe Corp 2245 S Western Av Chicago 8 Ill  
**SPACEMASTER** Acme National Refrigeration Co Inc 29-24 40th Av Long Island City 1 NY  
**SPACEMASTER** Lewis-Shepard Prods Inc 125 Walnut Watertown Mass  
**SPACEMASTER** New Castle Prods Inc New Castle Ind Ohio  
**SPACE-SAVER** Mengel Co 4th & Colorado Louisville 1 Ky  
**SPAKO-PATCH** Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
**SPARCLIN** Commonwealth Paint & Varnish Co 4124 W Parker Av Chicago 39 Ill  
**SPARTAN** Mansfield Sanitary Pottery Inc Ferrysville Ohio  
**SPARTAN** Parker (S) Hdwe Mfg Co 27 Ludlow New York 2 NY  
**SPA-SAVER** Acme National Refrigeration Co Inc 29-24 40th Av Long Island City 1 NY  
**SPECIFICATION** Barrett Div Allied Chemical & Dye Corp 40 Rector New York 6 NY  
**SPECTRO-MATIC TINTING SYSTEM** Rockford Paint Mfg Co 200 Sayre Rockford Ill  
**SPEED** Louisville Cement Co 501 S Second Louisville 2 Ky  
**SPEED** Speedway Mfg Co 1834 S 52nd Av Cicero 59 Ill  
**SPEED** Tinnerman Prods Inc Dept 16 Box 6888 Cleveland 1 Ohio  
**SPEDEMAT** Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio  
**SPEED-BARROW** American Conveyor Co 1115 W Adams Chicago 7 Ill  
**SPEE-D-DRY** Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
**SPEDECK** Mobile Paint Mfg Co Inc Box 1686 Mobile Ala  
**SPEE-DEE** Dalton Mfg Co 20 S Central Av St Louis 5 Mo  
**SPEDEHEATERS** Westinghouse Electric Corp Sturtevant Div 37 Readville Hyde Park Boston 36 Mass  
**SPEE-D-GLU** White Adhesive Co 2 Harrington Newtonville Mass  
**SPEED DE PINTER** Peck & Harvey 5650 N Western Av Chicago Ill  
**SPEED-OM-ATIC** Link-Belt Speeder Corp 1201 Sixth SW Cedar Rapids Iowa  
**SPEED-WET METALITE** Behr-Manning Div Norton Co 1554 Seifert Troy NY

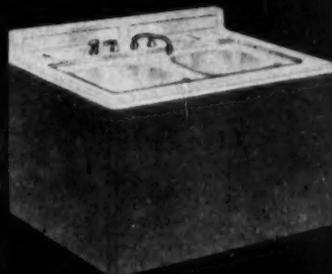
**SPEEDMOUNT** Bell Electric Co 1844-50 W 21st Chicago 8 Ill  
**SPEEDRIL** Lockwood Hdwe Mfg Co Fitchburg Mass  
**SPEEDSTER** Hyde Mfg Co Eastford & Clemence Southbridge Mass  
**SPEEDTILE** Rockford Brick & Tile Co Rockford Iowa  
**SPEEDWAY** Wright Hoist Div American Chain & Cable Co York Pa  
**SPEEDY SPRAYERS** Brown (W R) Corp 2701 N Normandy Av Chicago 35 Ill  
**SPENCER (HEATER)** Lymcoming-Spencer Div Avco Mfg Co Williamsport Pa  
**SPINDRIER** Easy Washing Machine Corp Solar & Spencer Syracuse NY  
**SPINTEX** Johns-Manville 22 E 40th New York 16 NY  
**SPIRALATOR AUTOMATIC WASHER** Easy Washing Machine Corp Solar & Spencer Syracuse NY  
**SPIROLOC** Universal Form Clamp Co 1248 N Kostner Av Chicago 51 Ill  
**SPLASH VALLEY** Tennis Bros Inc 460 N Bellevue Memphis 1 Tenn  
**SPOKANE** Spokane Portland Cement Co 724 Old National Bank Bldg Spokane 1 Wash  
**SPOT** Samson Cordage Wks 89 Broad Boston 10 Mass  
**SPONAILS** Spotnails Inc 1527 Lyons Evansville Ill  
**SPRAY-ACOUSTIC** Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill  
**SPRAYCAT** Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
**SPRAY-COTE** Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill  
**SPRAY-CRAFT** Smith & Kanzler Corp E Linden Av Linden NJ  
**SPRAYIT** Electric Sprayit Div Thomas Industries 1415-25 Illinois Av Sheboygan Wis  
**SPRAYMORE** Root-Lowell Corp 445 N Lake Shore Dr Chicago Ill  
**SPRAYO-FLAKE** Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill  
**SPRAY-SEAL** Sprayo-Flake Co 2727 W Irving Park Rd Chicago Ill  
**SPRAYSHIELD** Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
**SPREAD-EASY** Debs Decorators Old Middleton Rd Madison 5 Wis  
**SPRING-TITE** Weatherproof Prods Corp Waldo Station Box 8498 Kansas City 5 Mo  
**SPRING WING** Paine Co Fullerton Av & Westgate Rd Addison Ill  
**SQUARE GEE** Grabler Mfg Co 6565 Broadway Cleveland 5 Ohio  
**STAB-LOK** Federal Electric Prods Co 50 Paris Newark 5 NJ  
**STABILIZED** Mengel Co 4th & Colorado Louisville 1 Ky  
**STA-DEI** American Sta-Dri Co 4019 38th Brentwood Av Chicago 13 Ill  
**STA-TITE** Sta-Tite Inc 4020 N Port Washington Av Milwaukee 12 Wis  
**STA-ZIT** Commercial Paste Co Buttes at Michigan Columbus 8 Ohio  
**STAIR-FAN** Huntington Industries Inc 2368 Prospect Memphis Tenn  
**STAKMASTER** Stacor Equipment Co 768 New York Av Brooklyn 3 NY  
**STAND-ALL** Simonds Saw & Steel Co 470 Main Fitchburg Mass  
**STANDARD** Harris Preble Fire Doors Inc 4608 W 20th Chicago 50 Ill  
**STANDARD** Lanebro Mfg Co 110 Main Poughkeepsie NY  
**STANDARD** Shelby Metal Prods Co Shelby Ohio  
**STANDARD CORK TILE** Dodge Cork Co Inc Laurel & Manor Lancaster Pa  
**STANDARD ELECTRIC FAN** Standard Electric Mfg Co Inc Haddon Av West Berlin NJ  
**STANDARD-FLUSH DOOR** Hardwood Prods Corp 164 Lake Neshah Wis  
**STANDARD HOMES** Standard Homes Co 2524 "L" St NW Washington 7 DC  
**STANDARDOR** Mengel Co 4th & Colorado Louisville 1 Ky  
**STANDARD'S** Standard Paste & Glue Co Inc 3620 W 38th Chicago 32 Ill  
**STANTEX** Stanley (Wm W) Co Inc 401 Broadway New York 13 NY  
**STANTHONY** Stantony Corp 2305 W Alameda Burbank Cal  
**STANTOX** Abestos Mfg Corp 131 Wabash Michigan City Ind  
**STAPLECRAFT** Acme Staple Co 1643 Haddon Av Camden 3 NJ  
**STAR** Aerovent Fabricators Inc Ash & Benton Piqua Ohio  
**STAR** Clemson Bros Inc Cottage St Middletown NY  
**STAR** Richhill Mfg Co 3277 Spring Grove Av Cincinnati 25 Ohio  
**STARALUM ALCLAD** Hanover Wire Cloth Div Continental Copper & Steel Industries Inc 1945 Continental Hanover Pa  
**STAR BRAND** Turner & Seymour Mfg Co Lawton St Torrington Conn  
**STARBRITE** Hanover Wire Cloth Div Continental Copper & Steel Industries Inc 1945 Continental Hanover Pa  
**STARCK** Gagnon Clay Prods Co 526 S Broadway Green Bay Wis  
**STARLIFE** Hanover Wire Cloth Div Continental Copper & Steel Industries Inc 1945 Continental Hanover Pa  
**STARLINE** Starline Inc 300 W Front Harvard Ill

**STARLINER** Garden City Plating & Mfg Co 1750 N Ashland Av Chicago 22 Ill  
**STAR-LITE** Bestile Mfg Co State & Sultana Ontario Cal  
**STAR THREADED SOCKETS** Star Expansion Prods Co 147 Cedar New York NY  
**STARRETT** Starrett (L S) Co 101 Crescent Athol Mass  
**STATE HOUSE** Masury (John W) & Son Inc 1700 Bayard Baltimore 39 Md  
**STAYCUT** Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill  
**STAYPUT** Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill  
**STAY RIB** Inland Steel Prods Co Box 393 Milwaukee 1 Wis  
**STAY-STRATE** United States Plywood Corp 55 W 44th New York 36 NY  
**STAY-WET** Reliable Paste & Chemical Co 3560 Shields Av Chicago 9 Ill  
**STAZON** Plastic Prods Co 6473 Georgia Detroit 11 Mich  
**STELBINDER** Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
**STELCOTE** Steelcote Mfg Co 3418 Gratiot St Louis 3 Mo  
**STEE-FASHIONED** Walters Mfg Co 140 Pennsylvania Av Oakmont Pa  
**STEEL SEAL** Builders Mfg Co 1514 Brown Mars Bldg Birmingham Ala  
**STEEP-SLOPE** Bennett-Ireland Inc 23 State Norwich NY  
**STERBON** Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio  
**STERFAST** Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio  
**STERILAMPS** Westinghouse Electric Corp Lamp Div Bloomfield NJ  
**STERLING** Sterling Hdwe Mfg Co 2345 W Nelson Chicago 18 Ill  
**STERLING** Sterling Paint & Varnish Co 184 Commercial Malden 48 Mass  
**STERLING** Warren Knight Co 136 N 12th Philadelphia 7 Pa  
**STERLITH** Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio  
**STERMOUNT** Sterling Abrasives Div Cleveland Quarries Co 1430 Broad Tiffin 15 Ohio  
**STEWART** Stewart (E A) Lumber Co Inc Box 1777 Texarkana Tex  
**STILEMANOR** Russell & Erwin Div American Hdwe Corp 102 Washington New Britain Conn  
**STILES** Bridgewater Brick Co Spring St East Bridgewater Mass  
**STOKERMATIC** Stokermatic Co 1610 Industrial Rd Salt Lake City Utah  
**STOKER-VEYOR** American Conveyor Co 1115 W Adams Chicago 7 Ill  
**STONEFIL** Thomas Moulding Floor Co Inc 523 W Huron Chicago 10 Ill  
**STONEWALL BOARD** Ruberoid Co 500 Fifth Av New York 36 NY  
**STOP** Kleen-Kote Co 601 W 80th Chicago 20 Ill  
**STOP-RUST PP** Stop-Rust Co Box 2054 Chattanooga 9 Tenn  
**STOP-RUST 700** Stop-Rust Co Box 2054 Chattanooga 9 Tenn  
**STORM KING** Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
**STORMTIGHT** Sonneborn (L) Sons Inc Building Prods Div 404 Fourth Av New York 16 NY  
**STOR-VAULT** Wilson Refrigeration Inc Glenwood Av Smyrna Del  
**STRADLE TRUCK** Hyster Co 2905 NE Ohio Columbus 8 Ore  
**STRAN-STEEL FRAMING** Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich  
**STRAND** Detroit Steel Prods Co 2250 E Grand Blvd Detroit 1 Mich  
**STRAPHINDER** Gerrard (A J) & Co 1950 Hawthorne Av Melrose Park Ill  
**STREAM-LINE** Rotary Clothes Dryer Co Inc 836-46 Lawrence Allentown Pa  
**STREAMLINE** Mueller Brass Co 1925 Lapeer Av Port Huron Mich  
**STREAMLINER** Ferguson (Harry J) Co 141 West Av Jenkintown Pa  
**STRIP-N-KOMB** Wisconsin Laboratories Inc Dousman Wis  
**STRONG BOY** Master Lock Co 2600 N 32nd Milwaukee 45 Wis  
**STRONGHEART** Silver Lake Co 60 Battery-march Boston 10 Mass  
**STRONGMAN** Southern Galvanizing Co 1620 Bush Baltimore 39 Md  
**STRUCT-LITE** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**STUBBY** Holly Mfg Co 875 S Arroyo Pkwy Sta D Pasadena 2 Cal  
**STUCCO GRIP** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
**STURDALITE** Wright Mfg Co Box 6567 Houston 5 Tex  
**STURDIWOOD** Exiner (Alexander) Co Merchandise Mart Chicago 54 Ill  
**STURDY** Calder Mfg Co 630 N Prince Lancaster 12 Pa  
**STYLECRAFT** Devos & Reynolds Co Inc 787 First Av New York 17 NY  
**STYLON** Stylon Corp Summer St Box 341 Milford Mass  
**SUB-STIK** Midwest Acoustical & Supply Co 20001 W Lake Rd Cleveland 16 Ohio  
**SUDDEN DEPTH** Paine Co Fullerton Av & Westgate Rd Addison Ill

# Choose Your Sinks From This AllianceWare Array



**SINGLE  
DRAINBOARD  
SINK**  
(right & left  
models)



**SINK &  
TRAY  
COMBINATION**  
(42" x 25"  
48" x 25")



**DOUBLE  
DRAINBOARD  
SINK**  
(Double  
Bowl)



**DOUBLE  
DRAINBOARD  
SINK**  
(Single  
Bowl)



**SINGLE BOWL  
FLAT RIM  
SINK**  
(With or Without  
Faucet Ledge)



**DOUBLE BOWL  
FLAT RIM  
SINK**  
(With or Without  
Faucet Ledge)

AllianceWare offers the most complete line of porcelain-on-steel sinks, all of which meet Federal specifications. Formed from 14 gauge steel . . . enameled with superior wet-process porcelain enamel . . . these sinks are smooth, stainproof, and chip resistant . . . easily cleaned without the use of abrasive cleaning compounds. Several models are designed for cabinet installation—two models for leg installation, if desired. Flat rim sinks may be installed with plastic or tile drainboards and AllianceWare stainless steel frames. Write for complete information.



**ALLIANCEWARE, INC. • Alliance, Ohio**  
Bathubs • Lavatories • Closets • Sinks  
Plants in Alliance, Ohio, and Colton, California

SULCO Sullivan Co 212 E Trigg Av Memphis Tenn  
 SUN-BURST Delta Heating Corp 1 Cole Trenton 8 NJ  
 SUNBEAM Sunbeam Air Conditioner Div American Radiator & Standard Sanitary Corp Pittsburgh Pa  
 SUNFLOWER Certain-teed Products Corp 120 E Lancaster Av Ardmore Pa  
 SUN FUL-MASTER Fatten (J V) Co 550 DeKalb Av Syracuse III  
 SUN-PROOF Pittsburgh Plate Glass Co 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
 SUNRAY FABRIC Peerless Mfg Co 2100 N 11th Reading Pa  
 SUNROC Sunroc Co Glen Riddle Pa  
 SUPERCEDAR Brown (Geo C) & Co Inc 1750 W Les Greensboro NC  
 SUPERCCEL Reardon Co 7501 Page Av St Louis 14 Mo  
 SUPER CHIEF Chicago Paints Inc 4500 W 14th Chicago 23 Ill  
 SUPER CLEANSE Solvay Process Div Allied Chemical & Dye Corp 51 Broadway New York 6 NY  
 SUPEREX Johns-Manville 22 E 40th New York 16 NY  
 SUPER-DUTY Harris Preble Fire Doors Inc 4608 W 29th Chicago 50 Ill  
 SUPERFAN Queen Stove Wks Inc 505 Front Albert Lea Minn  
 SUPERFAST Superior Fastener Corp 2049 Elston Av Chicago 18 Ill  
 SUPER-FINE Fiber-Glass Div Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio  
 SUPERFLAME Queen Stove Wks Inc 505 Front Albert Lea Minn  
 SUPER-HARBOR Harbor Plywood Corp Box 940 Aberdeen Wash  
 SUPERIOR Grand Rapids Hdwe Co 560 Eleventh NW Grand Rapids Mich  
 SUPERIOR Jones Superior Machine Co 1270 W North Av Chicago II Ill  
 SUPERIOR Vulcan Metal Prods 2801 6th Av S Birmingham Ala  
 SUPERIOR Wall (P) Mfg Co Erie St Grove City Pa  
 SUPERIOR Youngstown Mfg Inc 66-76 S Prospect Youngstown Ohio  
 SUPER KEM-TONE Acme Quality Paints Inc 8250 St Aubin Av Detroit 11 Mich  
 SUPER KEM-TONE Rogers Paint Prods Co 8250 St Aubin Detroit 11 Mich  
 SUPERKLEEN Devos & Haynolds Co Inc 787 First Av New York 17 NY  
 SUPER KOVERWALL Standard-Toch Chemicals Inc 2600 Richmond Ter Staten Island 3 NY  
 SUPERELECTRIC Superior Electric Prods Corp 1507-17 Independence Cape Girardeau Mo  
 SUPERLITE Superior Wall Prods Co 4401 N American Philadelphia 40 Pa  
 SUPER SANITAS Standard Coated Prods Inc 67 W 44th New York 36 NY  
 SUPER SAW RCS Tools Sales Corp Box 1434 Joliet Ill  
 SUPERSEAL Barland Weatherstrip Material Co 1950 E 50th Cleveland 3 Ohio  
 SUPER SEAL Troyer Driveway Service 2157 S Park Av Buffalo 20 NY  
 SUPER SEDCO Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex  
 SUPER SHADE Superior Window Co 5300 NW 37th Av Miami Fla  
 SUPER SLUGGER Temp Prods Co 2075 E 65th Cleveland 3 Ohio  
 SUPERSPIN Combustion Engineering Inc 200 Madison Av New York 16 NY  
 SUPER STEEL Union Steel Chest Corp 54 Church LeRoy NY  
 SUPER T Tork Clock Co Inc 1 Grove Mt Vernon 10 NY  
 SUPER-TITE United States Gypsum Co 300 W Adams Chicago 6 Ill  
 SUPRADUR Supradur Corporation of NY 122 E 42nd New York 17 NY  
 SUPREMO Zurr (J A) Mfg Co Erie Pa  
 SUPROCO Tuffalt Inc 137 Bausman Pittsburgh 10 Pa  
 SURE GRIP Samsom Cordage Wks 89 Broad Boston 10 Mass  
 SURE GRIP Tuck Mfg Co 74 Ames Brockton 39 Mass  
 SUREMASTIC Camp Co Inc 6958 S State Chicago 21 Ill  
 SURE PRIME Jaeger Machine Co 500 W Spring Columbus 16 Ohio  
 SUREX Pass & Seymour Inc 50 Boyd Av Syracuse 9 NY  
 SURFWOOD United States Plywood Corp 55 W 44th New York 36 NY  
 SWAN Lehman Sprayshield Co 3355 York Rd Philadelphia 40 Pa  
 SWARTWOUT DEXTER Swartwout Co 18511 Euclid Av Cleveland 12 Ohio  
 SWINGIN SPRAY Melnor Metal Prods Co Inc 10-40 45th Av Long Island City 1 NY  
 SYLVANIA Sylvania Electric Prods Inc 1740 Broadway New York 19 NY  
 SYLVANOID Pennwoven Inc 70 E 45th New York 17 NY  
 SYLVA-PLY MacMillan & Bloedel Ltd 837 W Hastings Vancouver 1 BC Canada  
 SYNTHACOTE Rogers Paint Prods Inc 8250 St Aubin Detroit 11 Mich  
 SYRACUSE Syracuse Fire Door Corp 900 Canal Syracuse 3 NY  
 SYRACUSE Syracuse Twist Drill Co Inc 1046 S Townsend Syracuse 3 NY

SYRALL Syracuse Alloy Metals Corp 316-324 Pearl Syracuse NY  
 SYRIAN Standard Brick & Tile Corp 123 NW Fourth Evansville 8 Ind  
 SYSTEMAT Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio

**T**

TDL Penetone Co 74 Hudson Av Tenafly NJ  
 TFC Tennessee Fabricating Co 1490 Grimes Memphis Tenn  
 TMB Thomas Moulding Floor Mfg Co 325 W Huron Chicago 10 Ill  
 T-CHORD Haven-Busch Co 519 Front Av NW Grand Rapids Mich  
 TA-PER-TAPE Marvan Corp Box 219 West Hartford Conn  
 TABLE-CABLE Buchman (E W) Co Clifton Av at Winston Pl Cincinnati 32 Ohio  
 TACH-FAST Tach-Fast Mfg Co Lonaconing Md  
 TACK-IT O'Brien Corp 101 N Johnson South Bend 21 Ind  
 TACK-O-MATIC Crofoot Mfg Co 217 Evergreen Mount Prospect Ill  
 TACO Taco Heaters Inc 137 South St Providence RI  
 TAINTOR Smith (Seymour) & Son Inc Oakville Conn  
 TALEX Industrial Chemical Sales Div West Virginia Pulp & Paper Co 230 Park Av New York 17 NY  
 TAMBLYN SYSTEM Tamblyn System 1420 Gilpin Denver 6 Colo  
 TAMCO Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
 TARGET Evans (Robert G) Co 6315 Brookside Plaza Kansas City 13 Mo  
 TAR-ROK Barrett Div Allied Chemical & Dye Corp 40 Rector New York 5 NY  
 TAYLOR Taylor Lock Co 2034 W Lippincott Philadelphia 32 Pa  
 TAYLOR MADE Taylor Bedding Mfg Co Taylor Tex  
 TECHNAMATIC Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
 TECHNITE Capewell Mfg Co 60-70 Governor Hartford 2 Conn  
 TECO Timber Engineering Co 1319 18th NW Washington 6 DC  
 TECTUM II Tectum Corp 105 S Sixth Newark Ohio  
 TEE-COR Morgan Co 520 Oregon Oshkosh Wis  
 TEEL Grainger (W W) Inc 118 S Oakley Blvd Chicago 12 Ill  
 TEE VEE Penetrax Corp 615 Front Toledo 5 Ohio  
 TEGCO Technical Glass Co Inc 2050 E 48th Los Angeles 58 Cal  
 TEKWOOD United States Plywood Corp 55 W 44th New York 36 NY  
 TELETALK Webster Electric Co 1900 Clark Racine Wis  
 TELE-O-POST Brainard Steel Div Sharon Steel Corp Griswold St Warren Ohio  
 TEMCO Temco Inc 4104 Park Av Nashville 9 Tenn  
 TEMPACRETE Fort Pitt Chemical Co 26th & Smallman Pittsburgh 22 Pa  
 TEMPLE Southern Pine Lumber Co Diboll Texas  
 TENNANT HAND REVO-TOL Tennant (G H) Co 2566 N Second Minneapolis 11 Minn  
 TENNESEAL Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 TENNESSEE Tennessee Line & Twine Co 705 Lynn Av Elizabethton Tenn  
 TENNESSEE VARIEGATED Turner Bros Stone Co Inc Box 297 Crossville Tenn  
 TENNQUARTZ Tennessee Stone Co Inc 705 Broadway NE Knoxville 17 Tenn  
 TENSULATE Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn  
 TENSULATE PERLITE Tennessee Prods & Chemical Corp 500 First American Natl Bank Bldg Nashville 3 Tenn  
 TERALITE Chase Brass & Copper Co Inc 236 Grand Waterbury 20 Conn  
 TERMI-SHIELD Tennison Bros Inc 450 N Bellevue Memphis 1 Tenn  
 TERNE-COUSTIC Tach-Fast Mfg Co Lonaconing Md  
 TERNE-TILE Tach-Fast Mfg Co Lonaconing Md  
 TERRAFLEX Johns-Manville 22 E 40th New York 16 NY  
 TERRA-LIFT American Tractor Corp Terra Dr Churubusco Ind  
 TERRALOAF American Tractor Corp Terra Dr Churubusco Ind  
 TERRATRAC American Tractor Corp Terra Dr Churubusco Ind  
 TEXOLITE United States Gypsum Co 300 W Adams Chicago 6 Ill  
 TEXTOLITE General Electric Co Chemical Div 1 Plastics Av Pittsfield Mass  
 TEXTONE United States Gypsum Co 300 W Adams Chicago 6 Ill  
 TEXTONE V-4 Breneman-Hartshorn Inc 2045 Reading Rd Cincinnati 2 Ohio  
 TEXTURE ONE-ELEVEN Douglas Fir Plywood Assn 1119 A St Tacoma Wash  
 TEXTUR-SEAL Tamms Industries Inc 228 N LaSalle Chicago 1 Ill  
 TEX-VIT Texas Vitrihed Pipe Co Box 111 Mineral Wells Tex

THAT BETTER KIND Nashotah Moulding & Mfg Co Nashotah Wis  
 THE KNIGHT Knight Mfg Co 2930 S Washington Saginaw Mich  
 THE NATION'S BUILDING STONE Woolery Stone Co Inc Box 49 Bloomington Ind  
 THERMADOR Thermador Electrical Mfg Co 5119 District Blvd Los Angeles 22 Cal  
 THERMO-BASE Gerwin Industries Inc Thermo-Base Div 214 Spring Michigan City Ind  
 THERMOBESTOS Johns-Manville 22 E 40th New York 16 NY  
 THERMO-GRIP Ideal Industries Inc 1335 Park Av Sycamore Ill  
 THERMOLAIRE Birmingham Stove & Range Co Box 2593 Birmingham 2 Ala  
 THERMOLITE Electric Glass Corp Newbridge & Windsor Rds Bergenfield NJ  
 THERMOPANE Libbey-Owens-Ford Glass Co Nicholas Bldg Toledo 3 Ohio  
 THERMO-O-PANEL Ohio Plate Glass Co 305 Morris Toledo 4 Ohio  
 THERMO RAY ThermoRay Corp 141 E 44th New York 17 NY  
 THERMO-SASH Kesko Prods Inc Box 98 Bristol Ind  
 THERMO-VENT Damp-Vent Co 210 17th Box 205 Bettendorf Iowa  
 THICK BUTT Ruberoid Co 500 Fifth Av New York 36 NY  
 THILCO Thilmay Pulp & Paper Co Thilmay Rd Kaukauna Wis  
 3 C Columbia-Southern Chemical Corp 632 Fort Duquesne Blvd Pittsburgh 22 Pa  
 3D INSELUM Jones & Brown Inc 439 Sixth St Pittsburgh 19 Pa  
 3-IN-ONE Boyle-Midway Inc 22 E 40th New York 16 NY  
 3-IN-ONE Sabin Machine Co 6536 Carnegie Av Cleveland 3 Ohio  
 369 CANVAS PRESERVER Ensign Prods Co 3528 E 76th Cleveland 5 Ohio  
 38 Pratt & Lambert Inc 75 Tonawanda Buffalo 7 NY  
 #33 COMPOUND Armstrong Co 1001 East 103rd Chicago 28 Ill  
 THREEPLEX Chase Brass & Copper Co Inc 236 Grand Waterbury 20 Conn  
 THRIFT QUALITY Speed-O-Print Corp 1802 W Larchmont Av Chicago 13 Ill  
 THRIF-T-WA Roach & Musser Co Muscatine Iowa  
 THRETTY Vento Steel Prods Co Inc 250 Colorado Buffalo 15 NY  
 THULMAN Chimney Sales Corp Box 146 National Bank Bldg Fredericksburg Va  
 TIGER Kelley Island Lime & Transport Co 1132 Leader Bldg Cleveland 14 Ohio  
 TIGER BRAND Columbia-Geneva Steel Div United States Steel Corp Russ Bldg San Francisco 6 Cal  
 TIGER BRAND Lawrence (W W) & Co 1124-32 W Carson Pittsburgh 19 Pa  
 TIGER BRAND Tennessee Coal & Iron Div United States Steel Corp Box 599 Fairfield Ala  
 TIGER GRIP Consumers Glue Co 1515 Hadley St Louis 6 Mo  
 TILERO Tilette Cement Co Inc 401 Lafayette New York 3 NY  
 TILEMASTER Tilemaster Corp 1415-21 Diversey Pkwy Chicago 14 Ill  
 TILENE Bestile Mfg Co State & Sultana Ontario Cal  
 TILE-TEX Tile-Text Div Flintkote Co 1200 McKinley Av Chicago Heights Ill  
 TILETTE Tilette Cement Co Inc 401 Lafayette New York 3 NY  
 TILON Ever-Plastics Corp 420 Lexington Av New York 17 NY  
 TIMBERTOX Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo  
 TIMBERTOX - WOODTOX Wood - Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo  
 TIME-SAVER Speakman Co 30th & Spruce Wilmington 99 Del  
 TIMELY PLANNER Timely Prods Co Box 416 Basil Ohio  
 TIN-O-LIN Calbar Paint & Varnish Co 2612 Martha Philadelphia 25 Pa  
 TITAN Titan Mfg Co Inc 701 Seneca Buffalo 10 NY  
 TITE-LOCK Old American Roofing Mills 7600 Truman Rd Kansas City Mo  
 TITE-ON Ruberoid Co 500 Fifth Av New York 36 NY  
 TOMAHAWK True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 TOMB Barrett Div Allied Chemical & Dye Corp 40 Rector New York 5 NY  
 TOMMY AXE True Temper Corp 1623 Euclid Av Cleveland 15 Ohio  
 TOOTPICK Tilley (John S) Ladders Co 100-122 Second Watervliet NJ  
 TOP-FLIGHT Mengel Co 4th & Colorado Louisville 1 Ky  
 TOPSEAL FASTENER Fabricated Prods Co Water St West Newton Pa  
 TORIBHEET Cleveland Steel Prods Corp Toribheet Div 15801 Brookpark Rd Cleveland 11 Ohio  
 TORK Tork Clock Co Inc 1 Grove Mt Vernon NY  
 TORRIDOR Trane Co 3rd & Cameron La-Crosse Wis  
 TOTRUST Wilbur & Williams Co 130 Lincoln Brighton 35 Boston Mass  
 TOUCH-PLATE Touch-Plate Mfg Corp 1766 Seabright Av Long Beach Cal

**"OVER 10,000 Satisfied  
Maryland Home Owners Attest to the Outstanding  
Qualities of REVERE COPPER WATER TUBE—"**

Says, Anthony W. Keene, President, ANTHONY W. KEENE, INC.,  
Heating & Plumbing Contractors, Baltimore, Md.

"I've been operating in the Baltimore area for over eighteen years," said Mr. Keene. "Typical of the 10,000 units in which I have installed Revere Copper Water Tube is the Meadow Lane development which you see on the wall of my office. I have worked with various builders and they have told me they wouldn't specify anything but enduring copper water tube for plumbing lines . . . no rustable materials for them. Not only that; copper is easy to bend, needs no threaded fittings so naturally we can hold down our installation costs. Ever since I have been in business I have used Revere Copper Water Tube and have never regretted one foot of it."

Keep out of trouble with copper . . . guard your reputation for quality work. Use enduring Revere Copper Water Tube. There's a Revere Distributor near you who carries a full stock in both hard and soft tempers. And, if you have technical problems, he will put you in touch with Revere's Technical Advisory Service.

**REVERE  
COPPER AND BRASS INCORPORATED**

Founded by Paul Revere in 1801  
230 Park Avenue, New York 17, N. Y.

Mills: Baltimore, Md.; Chicago and Clinton, Ill.; Detroit, Mich.; Los Angeles and Riverside, Calif.; New Bedford, Mass.; Rome, N. Y.—  
Sales Offices in Principal Cities, Distributors Everywhere  
SEE "MEET THE PRESS" ON NBC TELEVISION, SUNDAYS



**WHY REVERE COPPER WATER TUBE  
IS PREFERRED BY—**

Architects, Builders, Plumbing & Heating Contractors

**EASY TO BEND  
Saves Time**



Revere Copper Water Tube is easy to bend. Soft temper can be bent by hand to meet installation conditions.

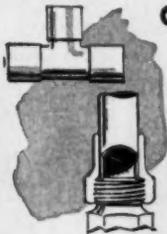
**HANDY LENGTHS  
Save Fittings . . . Labor**

Revere Copper Water Tube comes in straight lengths of 20' in hard and soft tempers. 60' coils of soft temper reduce the number of fittings needed.



**SOLDER OR  
COMPRESSION FITTINGS**

Need Less Work Room  
. . . Save Metal



No worry about wrench room when you use Revere Copper Water Tube with solder fittings. Compression fittings can also be used. No threading is necessary with either type fitting. Wall thickness of tube used can thus be less than for threaded pipe.

**NON-RUSTING**

Rustable pipe eventually clogs as shown in drawing at top right. Non-rustable Revere Copper Water Tube suffers no loss of flow or pressure as shown at bottom right. No allowance in pipe size need be made for rust accumulation with Revere Copper Water Tube.



**TOWERMOBILE** Mixermobile Manufacturers  
8027 NE Killingsworth Portland 20 Ore

**TRACEMASTER** Stacor Equipment Co 768  
E New York Av Brooklyn 3 NY

**TRACTOR DONKEY** Hyater Co 2965 NE  
Clackaman Portland 8 Ore

**TRACTORMOBILE** Mixermobile Manufacturers  
8027 NE Killingsworth Portland 20  
Ore

**TRADESMAN** Woodenware Prods Corp 122  
N 7th St Louis 1 Mo

**TRADESMAN** Tipp Mfg Co N Fourth  
Tipp City Ohio

**TRADITIONAL** Gerber Plumbing Fixtures  
232 N Clark Chicago III

**TRAFFIC** Johnson (S C) & Son Inc 1525  
Howe Racine Wis

**TRAFFIC-COTE** Johnson (S C) & Son Inc  
1525 Howe Racine Wis

**TRAILMOBILE** Trailmobile Inc 31st & Robert-  
son Cincinnati 9 Ohio

**TRANSCRETE** Construction Machinery Cos  
420 Vinton Waterloo Iowa

**TRANSEAL** Spray-O-Bond Co 2225 N Hum-  
boldt Av Milwaukee 12 Wis

**TRANSITE** Johns-Manville 22 E 40th New  
York 18 NY

**TRANSLOT** Cannelton Sewer Pipe Co 4th &  
Washington Cannelton Ind

**TRANSLOT** Texas Vitrifired Pipe Co Box 111  
Mineral Wells Tex

**TRANSPORT** Concrete Transport Mixer Co  
4985 Fyler Av St Louis 9 Mo

**TRANSPORTER** Automatic Transportation  
Co 101 W 87th Chicago 20 Ill

**TRANSDRIDER** Automatic Transportation Co  
101 W 87th Chicago 20 Ill

**TRANSTACKER** Automatic Transportation  
Co 101 W 87th Chicago 20 Ill

**TRANSTRACOR** Automatic Transportation  
Co 101 W 87th Chicago 20 Ill

**TRANSVEYOR** Automatic Transportation Co  
101 W 87th Chicago 20 Ill

**TREASURE ISLE** Midwest Jobbers Inc 3300  
S Racine Av Chicago 8 Ill

**TREE TANGLEFOOT** Tanglefoot Co 314  
Strain Av SW Grand Rapids 4 Mich

**TREMLUX** Tremco Mfg Co 8701 Kinsman  
Rd Cleveland Ohio

**TREMONT** Tremont Nail Co 21 Elm Ware-  
ham Mass

**TRENFLIX** Trenton Pipe Nipple Co 626  
Brunswick Av Box 1234 Trenton NJ

**TRI-CLAD** General Electric Co Apparatus  
Sales Div 1 River Rd Schenectady 5 NY

**TRIG-B-HEAT** Wall (P) Mfg Co Erie St  
Grove City Pa

**TRI-LOK** Dravo Corp Fifth & Liberty Av  
Pittsburgh 22 Pa

**TRILUG** Rockwood Sprinkler Co 38 Harlow  
Worcester 5 Mass

**TRIMIX** Sonneborn (L) Sons Inc Building  
Prods Div 404 Fourth Av New York 16  
NY

**TRIMO PATTERN** WHEELS Collmer Bros  
420 S St Joseph South Bend 1 Ind

**TRIMRAD** Koven (L O) & Bro Inc 154 Or-  
den Av Jersey City 7 NJ

**TRIMRAD** Waterfilm Boilers Inc 36-40 New  
York Av Jersey City NJ

**TRIMVIEW** Stewart Screen Co 32 E Ray-  
mond Av Pasadena 1 Cal

**TRIMZ** United Wallpaper Inc Merchandise  
Mart Plaza Chicago 54 Ill

**TRION** Trion Inc 1000 Island Av McKees  
Rocks Pa

**TRIPLE SEAL** Weatherproof Prods Corp  
Waldo Sta Box 8498 Kansas City 5 Mo

**TRIWAY** US Expansion Bolt Co State St  
& PRR York Pa

**TROJAN** Buschman (E W) Co Clifton Av  
& Winton Pl Cincinnati 32 Ohio

**TROJAN** Chesler (J) & Sons Inc 41-49 Var-  
lek Av Brooklyn 37 NY

**TROJAN** Parker Mfg Co 140 Washington  
Worcester Mass

**TROJAN** Standard Mfg Co 22 E 4th Cedar  
Falls Iowa

**TROJAN** Tilley (John S) Ladders Co 100-122  
Second Watervliet NY

**TROUBLE SAVER** Patent Scaffolding Co  
38-21 12th Long Island City 1 NY

**TROUBLE SAVER** Steel Scaffolding Co 856  
Humboldt Brooklyn 22 NY

**TRU-FLECT** Binawanger & Co 207 N Main  
Houston Tex

**TRU-FORM** Boice Crane Co 930 W Central  
Av Toledo 6 Ohio

**TRUGRAIN** United States Plywood Corp 55  
W 44th New York 36 NY

**TRU GROOVE** Western Saw Mfrs Inc 1842  
W Washington Blvd Los Angeles Cal

**TRU-SEAL** Tru-Seal Window Div Industrial  
Machine Tool Co Inc 301 S Oak Fenelon  
Mich

**TRUMBULITE** Trumbull Components Dept  
General Elec Co Plainville Conn

**TRUSCON** Devoe & Reynolds Co Inc 787 First  
Av New York 17 NY

**TRUSTEEL** United States Gypsum Co 300 W  
Adams Chicago 6 Ill

**TRUSTY** Roof-Lowell Corp 445 N Lake  
Shore Dr Chicago III

**TRUWOOD** United States Plywood Corp 55  
W 44th New York 36 NY

**TUB-A-DOR** Youngtown Mfg Inc 66-76 S  
Prospect Youngstown Ohio

**TUBAR** Superior Window Co 5300 NW 37th  
Av Miami Fla

**TUB-KOVE** Keller Prods Inc 7030 Superior  
Av Cleveland 8 Ohio

**TUFCRETE APS** Tufcrete Co Inc 552 Teach-  
out Bldg Des Moines 9 Iowa

**TUFDEK** Tufcrete Co Inc 552 Teachout Bldg  
Des Moines 9 Iowa

**TUFENSE** Tufcrete Co Inc 552 Teachout  
Bldg Des Moines 9 Iowa

**TUFF-BOND** Moore (Goodloe E) Inc Box  
846 Danville Ill

**TUFFDECK** Tuffalt Inc 137 Bausman Pitts-  
burgh 10 Pa

**TUFFLEX** Serviced Prods Corp 6051 W  
65th Chicago 38 Ill

**TUFFLEX** Wood Conversion Co 1st Natl  
Bank Bldg St Paul 1 Minn

**TUF-FLEX** Millers Falls Co Wells & Devon  
Greenfield Mass

**TUF-FLEX DOORS** Libbey-Owens-Ford Glass  
Co Nicholas Bldg Toledo 3 Ohio

**TUFFKLAY** Tuffalt Inc 137 Bausman Pitts-  
burgh 10 Pa

**TUFFLOOR** Tuffalt Inc 137 Bausman Pitts-  
burgh 10 Pa

**TUFFSEAL** Tuffalt Inc 137 Bausman Pitts-  
burgh 10 Pa

**TUFF-TEX** Tile-Text Div Flintkote Co 1200  
McKinley Av Chicago Heights III

**TUFF-TRED** Moore (Goodloe E) Inc Box 846  
Danville Ill

**TUFFY** Beneke Corp Box 271 Columbus Miss

**TUFSEAL** Tufcrete Co Inc 552 Teachout Bldg  
Des Moines 9 Iowa

**TUFTITE** Tufcrete Co Inc 552 Teachout Bldg  
Des Moines 9 Iowa

**TUFTOP** Tufcrete Co Inc 552 Teachout Bldg  
Des Moines 9 Iowa

**TUGGER** Construction Machinery Cos 420  
Vinton Waterloo Iowa

**TUGIT** Shaw-Box Crane & Hoist Div Man-  
ning Maxwell & Moore Inc 414 Broadway  
Muskegon Mich

**TUNGSEAL** McCloskey Varnish Co 7600  
State Rd Philadelphia 36 Pa

**TURBO-BASE** Uno Ventilator Co 1236 East-  
ern Av Malden 48 Mass

**TURNER** Turner Brass Wks 821 Park Av  
Sycamore Ill

**TURBLOK** Pass & Seymour Inc 50 Boyd Av  
Syracuse 9 NY

**TURQUOISE** Eagle Penell Co 703 E 13th  
New York 9 NY

**TU-VUE** Ornas & LaBarre 28697 Mound  
Rd Centerline Mich

**TWIN ANCHOR** Manhattan Terrazzo Brass  
Strip Co Inc Box 187 Norwalk Conn

**TWINDOW** Pittsburgh Plate Glass Co 632  
Fort Duquesne Blvd Pittsburgh 22 Pa

**TWIN ROLLER** McKee Door Co 110 Hanks  
Aurora Ill

**TWIN-SLIDE** Standard Building Prods Co  
621 McDonald Av Brooklyn 18 NY

**TWINSTILE** Schacht Associates Inc 1176 E  
156th New York 59 NY

**TWIST NON** ELECTRIC CHIME Edwards Co  
Inc Post Rd Norwalk Conn

**TWISTY** Universal Form Clamp Co 1248  
N Kostner Av Chicago 51 Ill

**TYLE-BORD** Colotype Tyle-Bord Inc 975  
John Seattle 9 Wash

**TYLOK** ANKORS Tennis Bros Inc 450 N  
Bellevue Memphis 1 Tenn

**TYPE S & TYPE P** Winslow Government  
Standard Scale Wks Inc 25th & Haythorne  
Av Terre Haute Ind

**TYRA** Tyra (R K) Co Hwy 61 Tyra Minn

**TYTE-SEAL** Weatherguard Service Inc 564  
Jackson Av New York 55 NY

## U

**U/R** Universal Rundle-Corp Box 960 New  
Castle Pa

**URC** Utica Radiator Corp 2201 Dwyer Av  
Utica NY

**U S** United States Radiator Corp Buhl Bldg  
Detroit 31 Mich

**US AIR** Co United States Air Conditioning  
Corp Como Ave SE at 23rd Minneapolis 14  
Minn

**U S S NATIONAL** National Tube Div United  
States Steel Corp 525 William Penn Pl  
Pittsburgh 30 Pa

**USS SHELBY** National Tube Div United  
States Steel Corp 525 William Penn Pl  
Pittsburgh 30 Pa

**UARCO** Uarco Inc 5000 S California Av Chi-  
cago 32 Ill

**UNI-BATCH** Winslow Government Standard  
Scale Wks Inc 25th & Haythorne Av  
Terre Haute Ind

**UNIFLOW** Uniflow Mfg Co 1525 E Lake Rd  
Erie Pa

**UNI-FORM** Universal Form Clamp Co 1238  
N Kostner Av Chicago 51 Ill

**UNIPAK** Farley & Loetscher Mfg Co Du-  
buque Iowa

**UNI-POINT** American Woodworking Ma-  
chinery Co 100 Liberty Hackettstown NJ

**UNI-ROL** Farley & Loetscher Mfg Co Du-  
buque Iowa

**UNI TRANE** Trane Co 3rd & Cameron La-  
Crosse Wis

**UNILINE** Pass & Seymour Inc 50 Boyd Av  
Syracuse 9 NY

**UNION** Union Steel Chest Corp 54 Church  
LeRoy NY

**UNION** Union Tool Co 45 E River Orange  
Mass

**UNISTRUT** Unistrut Prods Co 1013 W Wash-  
ington Blvd Chicago 7 Ill

**UNITAIRE** Westinghouse Electric Corp Stur-  
tevant Div 37 Readville Hyde Park Boston  
36 Mass

**UNIT BREAKER** Cutler Hammer Inc 201 N  
12th Milwaukee 1 Wis

**UNIT ROL** Cutler-Hammer Inc 201 N 12th  
Milwaukee 1 Wis

**UNITED** United Wallpaper Inc Merchandise  
Mart Plaza Chicago 54 Ill

**UNITED STATES** Emerson Electric Mfg Co  
8100 Florissant Av St Louis 21 Mo

**UNITOP** United States Plywood Corp 55 W  
44th New York 36 NY

**UNIVERSAL** Buschman (E W) Co Clifton  
Av at Winton Pl Cincinnati 32 Ohio

**UNIVERSAL** Cribben & Sexton Co 700 N  
Sacramento Blvd Chicago 12 Ill

**UNIVERSAL** Johns-Manville 22 E 40th New  
York 16 NY

**UNIVERSAL** Landers Frary & Clark Center  
St New Britain Conn

**UNIVERSAL** Universal Hoist & Mfg Co  
Clear Falls Iowa

**UNIVERSAL** Universal Motor Co 517 Uni-  
versal Dr Oshkosh Wis

**UNO-BLOCK** Uno Ventilator Co 1236 East-  
ern Av Malden 48 Mass

**UNO-VENTURETTE** Uno Ventilator Co 1236  
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**UNXLD** Yawkey-Bissell Hardwood Flooring  
Co White Lake Wis

**UPSON ALL-WEATHER** Upson Co 43 Up-  
son Pt Lockport NY

**UPSON KOLORPINS** Upson Co 43 Upson  
Pt Lockport NY

**UPSON KUYER-KRAK** Upson Co 43 Upson  
Pt Lockport NY

**UPSON STRATED** Upson Co 43 Upson Pt  
Lockport NY

**UPSON STRONG-BILT** Upson Co 43 Upson  
Pt Lockport NY

**USE US** Expansion Bolt Co State St & PRR  
York Pa

**UTICA** Utica Radiator Corp 2201 Dwyer Av  
Utica NY

**UTILAIRE** Berger Furnace Mfg Co 5920  
Centre Av Pittsburgh 6 Pa

**UTILCO** Union Steel Chest Corp 54 Church  
Le Roy NY

**UTILITY** Arex Co 612 N Michigan Av Chi-  
cago 11 Ill

**UTILITY** Black & Decker Mfg Co 600 E  
Pennsylvania Av Towson 4 Mich

**UTILITY** Chesler (J) & Sons Inc 41-49 Var-  
lek Av Brooklyn 37 NY

**UTIL-O-MATIC** Crofoot Mfg Co 217 Ever-  
green Mount Prospect Ill

## V

**VACCINOL** Vaccinol Sales Co 2487 Penn  
Memphis 9 Tenn

**VACOL** INVIBILE Anderson (V E) Mfg  
Co 1515 E 18th Owensboro Ky

**VACOL VENT** Anderson (V E) Mfg Co  
1515 E 18th Owensboro Ky

**VACU-BREAK SAFETY SWITCH** Bulldog  
Electric Prods Co 7610 Joseph Campau  
Box 177 Detroit 32 Mich

**VALSPAR** Valentine & Co 11 E 36th New  
York 16 NY

**VAMPCO** Valley Metal Prods Co Bridge St  
Plainwell Mich

**VANALOID** Vogue Mfg Co 2311 Taylor Fort  
Wayne 6 Ind

**VANCO CUPRAFACE** Van Noorden (E) Co  
100 Magazine Boston 19 Mass

**VANCO PLEXIGLAS** DOMELITE Van  
Noorden (E) Co 100 Magazine Boston 19  
Mass

**VANDY-CRAFT** Vandy (E A) 14105 Mer-  
chandise Mart Chicago 54 Ill

**VANETTE** Toledo Desk & Fixture Corp  
1020 Ford Rd Maumee Ohio

**VANITY** Mansfield Sanitary Pottery Inc  
Ferrysville Ohio

**VARI-SPOT** Curtis Lighting Inc 6135 W 65th  
Chicago 28 Ill

**VARI-VAC** Dunham (C A) Co 400 W Mad-  
ison Chicago 6 Ill

**VARLET FLINT & WALLING MFG CO INC**  
95 Oak Kendallville Ind

**VARLAB** United Wallpaper Co Merchandise  
Mart Plaza Chicago 54 Ill

**VARLAB STAINPROOF** Arlar Div United  
Wallpaper Inc 6154 Merchandise Mart Chi-  
cago 54 Ill

**VATU** American Rust Proof Co 302 Butler  
Brooklyn 17 NY

**VELATONE** Mobile Paint Mfg Co Inc Box  
1686 Mobile Ala

**VEL-GLO** Wetherill (Geo D) & Co Inc 113-115  
Arch Philadelphia 6 Pa

**VELITE** Mobile Paint Mfg Co Inc Box 1686  
Mobile Ala

**VEL-KOTE** Wetherill (Geo D) & Co Inc  
113-115 Arch Philadelphia 6 Pa

**VEL-LUSTRE** Wetherill (Geo D) & Co Inc  
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**VELOCITY POWER DRIVER** Velocity Power  
Tool Co 201 N Broadway Av Pittsburgh 8 Pa

**VELVETEX** Mosaic Tile Co 1949 Pershing Av  
Zanesville Ohio

**VELVETONE** Globe Paint Wks Inc 202 Mar-  
ket Williamsport Pa

**VELV-O-CAP** Crofoot Mfg Co 217 Ever-  
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**VEN-TROL** Grand Rapids Hdwe Co 560 Elev-  
enth NW Grand Rapids 2 Mich

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with these *Continental*  
contemporary doors

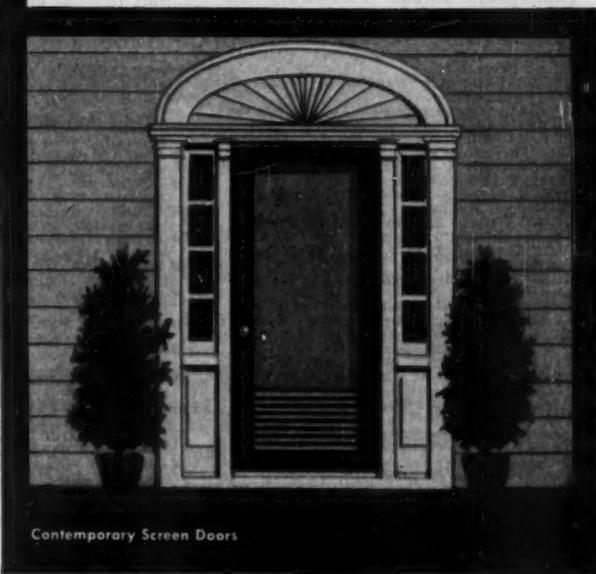


Contemporary Combination storm and screen doors

Entrances take on that "contemporary look" when protected and decorated by one of these new Contemporary doors. Available both as combination doors with storm and screen inserts—and as permanently wired screen doors—they feature a unique fluted-panel design that offers exciting new possibilities for "personalized" color treatment.

As a combination storm and screen door the Contemporary is offered in three attractive insert styles including the beautiful protruding "picture frame" insert shown above. Storm sash and screen panels are designed for quick and easy changeability and require little storage space.

Send for the four-color brochure which describes in detail the delightful color combinations suggested by the Contemporary's design.



Contemporary Screen Doors

The Continental Contemporary screen door is permanently wired, and presents the same combination of Continental quality construction features as is found in all Contemporary doors: mortise and tenon construction; made of Ponderosa Pine, the wood of warmth, beauty and durability. There is no other screen door in its price range that can approach its beauty and utility.

**A CONTEMPORARY STYLE  
FOR EVERY ENTRANCE  
—ANY TASTE**



As an all-weather combination storm and screen door the Contemporary is also available with one-light flush insert (left) and with three-light flush insert (right).



*Continental*

products are manufactured by:

The Wabash Screen Door Co.—Minneapolis—Chicago—Memphis  
Owosso Manufacturing Company—Owosso, Michigan  
Philadelphia Screen Manufacturing Company—Philadelphia

and sold through **CONTINENTAL SCREEN COMPANY**  
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**VENI-SHADE** Consolidated Venetian Blind Co Div Consolidated Gen Prods Inc 2401 Nicholson Box 7425 Houston 8 Tex  
**VENKO** Koven (L O) & Bro Inc 154 Ozden Av Jersey City 7 NJ  
**VENKO** Waterfilm Boilers Inc 36-40 New York Av Jersey City NJ  
**VENT-A-HOOD** Vent-A-Hood Co 1907 Plantation Rd Dallas 19 Tex  
**VENT-AIR** National Screen Co Madison Av Extended Suffolk Va  
**VENTLOCK** Ventilite Corp 5556 Biacayne Blvd Miami 37 Fla  
**VEOS** Porcelain Enamel Prods Corp Bay State Rd Rehoboth Mass  
**VER-A-SIL** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
**VER-A-SPRAY** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
**VERI-LUX** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
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**WASCOLITE** Wasco Flashing Co 87 Fawcett Cambridge Mass  
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**WILMAC** Wilmac Metal Prods Co Inc 2632 N Central Av Chicago 39 Ill  
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**WILSON** Media Machine Wks Inc 620 Park Av Media Pa  
**WILSON** Wilson Saw Div Media Machine Wks Inc 620 Park Av Media Pa  
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**WINDOW WONDER TOOL** Rene-Craft Prods 406 Linden Av Wilmette Ill  
**WINDOWWALLS** Andersen Corp Bayport Minn  
**WINGFOOT** Goodyear Tire & Rubber Co 1485 E Archwood Av Akron 16 Ohio  
**WINONA TRAVERTINE** Biesanz Stone Co Winona Minn  
**WINSLOW** Warren-Knight Co 136 N 12th Philadelphia 7 Pa  
**WIN-TRIM** Winton Lumber Sales Co 2600 Foshay Tower Minneapolis 2 Minn  
**WIREDUCT** Wiremold Co Station A Hartford 10 Conn  
**WIREMOLD** Wiremold Co Station A Hartford 10 Conn  
**WISCO TRIPLETRACK** Wisco Aluminum Corp 3945 "A" Detroit Mich  
**WISCONSIN KNIGHT** Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich  
**WISCONSIN KNIGHT** Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich  
**WISS** Wiss (J) & Sons Co 11-45 Littleton Av Newark 7 NJ  
**WISSOTA** Wissota Mfg Co 1301 S 3rd Minneapolis 13 Minn  
**WITHERBY** Winsted Edge Tool Wks Winsted Conn  
**WITT** Witt Cornice Co 2118 Winchell Av Cincinnati 14 Ohio  
**WITTE** Witte Engine Wks Oil Well Supply Div US Steel Corp 1600 Oakland Av Kansas City 26 Mo  
**WIZARD** Boyle-Midway Inc 22 E 40th New York 16 NY  
**WIZARD** Woodenware Prods Corp 122 N 7th St Louis 1 Mo  
**WOLMANIZED** American Lumber & Treating Co 332 S Michigan Av Chicago 4 Ill  
**WONDAIRE** Cox Mfg Co N Walnut Ridgeville Ind  
**WONDER** Construction Machinery Cos 420 Vinton Waterloo Iowa  
**WONDER-FOLD** Midwest Plywood Co 10101 Lyndon Av Detroit 21 Mich

**WONDER-FOLD** Wisconsin Door Co 10101 Lyndon Av Detroit 21 Mich  
**WONDER-PASTE** Wilson-Imperial Co 115 Chestnut Newark 5 NJ  
**WOOD-LOOM** DeJong Inc 34-23 36th Long Island City 1 NY  
**WOOD-MOSAIC** Parkway Inc 5000 Crittenden Dr Louisville 9 Ky  
**WOOD-NU-STAIN** Minnesota Paints Inc 1101 Third St S Minneapolis 15 Minn  
**WOOD-REM** Spec Inc 7308 Associate Av Cleveland 9 Ohio  
**WOOD-VAR** Martin-Setour Co 2520 S Quarry Chicago 8 Ill  
**WOODALL GLIDE-ALL** Woodall Industries Inc 3500 Oakton Skokie Ill  
**WOODCO** General Woodcraft Co Inc 3323 Paterson Plank Rd North Bergen NJ  
**WOODFORD** Woodford Hydrant Co 1626 Delaware Av Des Moines Iowa  
**WOODSULITE** Gold Seal Asphalt Roofing Co Box 302 Chicago Heights Ill  
**WOODTEX** Certain-teed Prods Corp 120 E Lancaster Av Ardmore Pa  
**WOODTOX-WOODFIX** Wood-Treating Chemicals Co 5137 Southwest Av St Louis 10 Mo  
**WOOSTER SEAL-KOTE** Interchemical Corp Wooster Unit Wooster Ohio  
**WORSHAM** Worsham Co Inc 808 Ocean Center Bldg Long Beach 2 Cal  
**WRAP-DRI** Thilmany Pulp & Paper Co Thilmany Rd Kaukauna Wis  
**WRIGHT** Wright Hoist Div American Chain & Cable Co York Pa  
**WRIGHTEX** Wright Mfg Co Box 6567 Houston 5 Tex  
**WRIGHTFLOR** Wright Mfg Co Box 6567 Houston 5 Tex  
**WRIGHT ON TOP** Wright Mfg Co Box 6567 Houston 5 Tex  
**WRIGHT SAFEWAY** Wright Hoist Div American Chain & Cable Co York Pa  
**WYR-O-GLASS** Flex-O-Glass 1100 N Cicero Chicago 51 Ill

**X**

**X-CELL-ALL** National Chemical & Mfg Co 3617 S May Chicago 9 Ill  
**X-DUCT** National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa  
**X-DUCT JR** National Electric Prods Corp 2 Gateway Center Pittsburgh 22 Pa  
**X-IT** Sullivan Co 212 E Trigg Av Memphis Tenn  
**X-PANDOSEAL** X-Pando Corp 43-15 36th Long Island City 1 NY  
**XTRALITE** Marshalltown Trowel Co 112 S Eighth Av Marshalltown Iowa

**Y**

**Y-A** Yates-American Machine Co 701 Fourth Beloit Wis  
**YALE** Yale & Towne Mfg Co Roosevelt Blvd Philadelphia 15 Pa  
**YANKEE** North Bros Mfg Co Div Stanley Tools 228 Lehigh Av Philadelphia 33 Pa  
**YANKEE FIBER** Color-Craft Prods Inc 5035 Bellevue Detroit 11 Mich

**YANKEE HILL** Yankee Hill Brick Mfg Co 728 Stuart Bldg Lincoln Neb  
**YELLOW END** St Paul Corrugating Co S End Wabasha St Bridge St Paul 1 Minn  
**YELLOW-FLASH** Justrite Mfg Co 2061 N Southport Av Chicago 14 Ill  
**YELLOW STRAND** Broderick & Hascom Rope Co 4203 Union Blvd St Louis 15 Mo  
**YORKBEST** Heilig Bros Co Inc 24 W North York Pa  
**YORKTOWNE KITCHENS** Colonial Prods Co Broad & Park Dallastown Pa  
**YOUNGSTOWN KITCHENS** Mullins Mfg Corp University St Warren Ohio

**Z**

**Z-CRETE** Zonolite Co 135 S LaSalle Chicago 3 Ill  
**ZEBRA STRIPE** Verflex Sales Corp 115-17 Moonachie Av Carlstadt NJ  
**ZEEN-X** United States Gypsum Co 300 W Adams Chicago 6 Ill  
**ZEOTONE** Calgon Inc 323 Fourth Av Pittsburgh Pa  
**ZEPHAIR** Hunter Fan & Ventilating Co 400 S Front Memphis 2 Tenn  
**ZEPHYR** Fiat Metal Mfg Co 9301 Belmont Av Franklin Park Ill  
**ZEPHYRS** Creco-Dipt Co Inc 986 Oliver North Tonawanda NY  
**ZERO** Johns-Manville 22 E 40th New York 16 NY  
**ZERO-FLOW** Wilson Refrigeration Inc Greenwood Av Smyrna Del  
**ZEROLITE** Johns-Manville 22 E 40th New York 16 NY  
**ZEROPAK** McQuay Inc 1600 Broadway NE Minneapolis 13 Minn  
**ZERO-SAFE** Wilson Refrigeration Inc Greenwood Av Smyrna Del  
**ZERO-SPRAY** Wilson Refrigeration Inc Greenwood Av Smyrna Del  
**ZERO-TANK** Wilson Refrigeration Inc Greenwood Av Smyrna Del  
**ZERO-VAULT** Wilson Refrigeration Inc Greenwood Av Smyrna Del  
**ZETLAN** Wayne Chemical Prods Co Copeland & MCRR Detroit 17 Mich  
**ZINCLAD** Maze (W H) Co Church & The River Peru Ill  
**ZIP-LIFT** Harmschfeger Corp 4400 W National Av Milwaukee 46 Wis  
**ZONING WEATHERMAKER** Carrier Corp 300 S Geddes Syracuse 1 NY  
**ZONOLITE** Texas Vermiculite Co 303 Brazos Austin Tex  
**ZONOLITE** Vermiculite Prods Inc 515 Madison Kansas City Mo  
**ZONOLITE** Western Mineral Prods Co 1720 NE Madison Minneapolis Minn  
**ZONOLITE** Zonolite Co 135 S LaSalle Chicago 3 Ill  
**ZOURITE** Kawneer Co 1105 N Front Niles Mich  
**ZURN** Zurn (J A) Mfg Co Erie Pa

## SEE SECTIONS

- 1—Products and Equipment Manufacturers—Page 261.
- 2—Brand Names—Page 497.
- 3—Where to Buy it Locally—Page 535.

# CONNOR

forest products since 1872

"LAYTITE" maple birch oak FLOORING

Block, Continuous or Regular Strip & Slats

Mixed cars or trucks

MFMA graded and trade marked

Our Specialty—"School Gym" Grade

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Wausau, Wis.

Phone No. 2-2091

**NEW CATALOG**



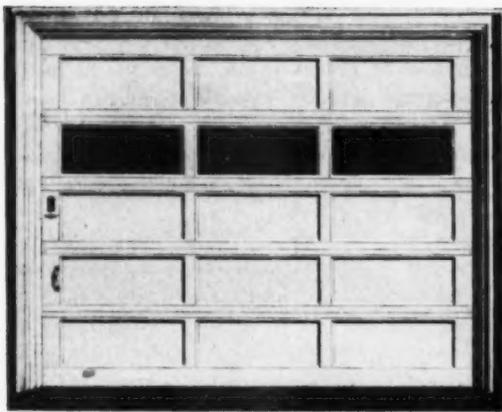
### How to Get the Most Value in PORTABLE ELECTRIC TOOLS

**NOW**, for the first time, a complete catalog showing of Porter-Cable Fine Electric Tools for building, woodworking and maintenance uses. Twenty-eight interesting pages, more than 200 illustrations, crammed with facts, specifications, suggestions, ideas. Shows what to look for in different tools and how to get the most

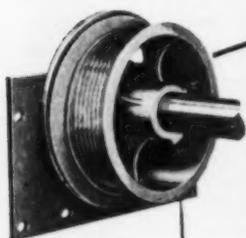
for your money . . . plus helpful ways to save time and labor on hundreds of jobs. Every builder, craftsman, journeyman should have a copy on hand when the need arises, for help in selecting the most useful, durable and economical tools. Get your copy now. By mail for only 10c to cover postage and handling.

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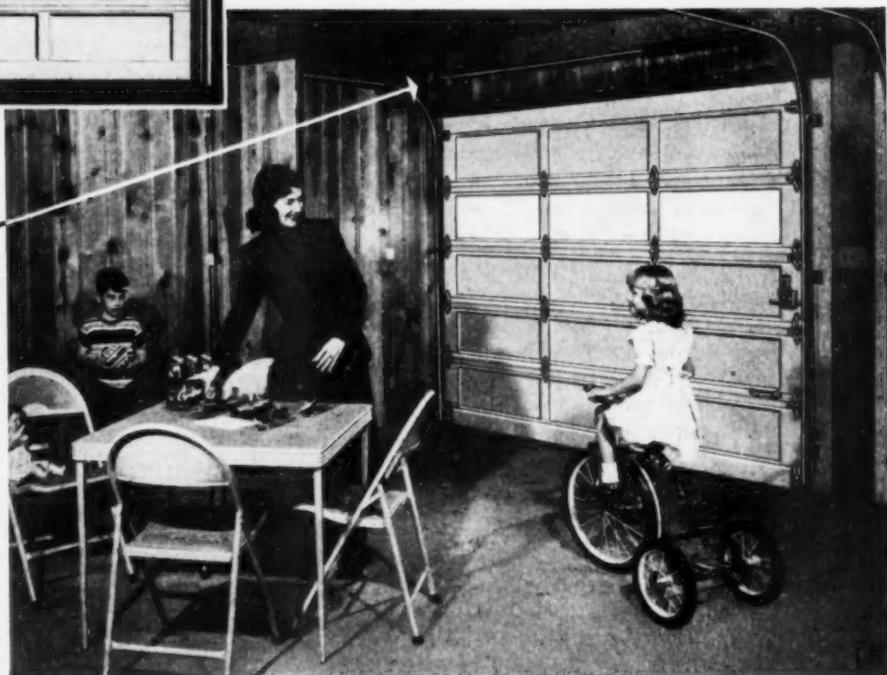


**STANDARD SIZE**  
9 ft. wide x 6 ft. 8 in. high



**NEW TAPERED DRUM  
INSURES PERFECT  
BALANCE IN ANY  
POSITION!**

This drum does for your garage door what power steering does for your car.



© 1954 O.D.C.

# The Perfect Door for that "Extra Room"

A well-planned garage can sell the house! Garage space is all-purpose space, invaluable to the small-home buyer:

- Extra Storage
- Handyman's Workroom
- Recreation Area
- Indoor Picnic Ground
- Car Protection
- Home Freezer Space

**Electric Operation • Electronically Controlled  
From Your Car**

## NATION-WIDE Sales Installation Service

Look for this trade mark in your telephone directory.



## GIVE EVERY HOME THESE PLUS VALUES:

**Strongly Built!** With sixteen hinges and four corner supports, it floats on twenty points of strength.

**Weathertight!** MIRACLE WEDGE\* weathertight closure conserves heat, keeps out rain, snow, wind and ice.

**Beautiful!** Stock or special designs blend with any style of construction.

**Easy to Open and Close!** Because of strong construction, perfect balance and expert installation.

\*TRADE MARK



RESIDENTIAL • COMMERCIAL • INDUSTRIAL

**OVERHEAD DOOR CORPORATION, Hartford City, Ind.**

Manufacturing Division

HILLSIDE, N. J.	CORTLAND, N. Y.	DALLAS, TEX.
NASHUA, N. H.	LEWISTOWN, PA.	OKLAHOMA CITY, OKLA.
PORTLAND, ORE.		GLENDAL, CAL.

AMERICAN BUILDER

# A New Service for Builders

THE 1954 *American Builder* Directory, in the following section, presents a new service to readers—detailed listings of manufacturers' local distributors. This guide provides a quick way to find the local nearest outlet of the manufacturer whose product is desired. This listing is alpha-

betical by manufacturers. Cities are listed alphabetically under each manufacturer, with each city followed by the local dealer's names. Look for the name of yours or nearby town.

Where wholesalers, sales representatives, etc., are listed instead of dealers, this is noted in the headings.

## SECTION III

# WHERE TO BUY IT LOCALLY

## A Directory of Manufacturers' Local Distributors

### A & F TILEBOARD CO. ALEXANDRIA, LA.

#### Wholesale Distributors

The following wholesale distributors service established retail lumber and building material dealers from warehouse stocks.

Atlanta, Ga. Randall Brothers, Inc.	Jonesboro, Ark. Builders Material Co.
Austin, Tex. Calcasieu Lumber Co.	Lake Charles, La. Gulf Sash & Door Co.
Baton Rouge, La. United Sash & Door Co.	Little Rock, Ark. Arkmo Lumber Co.
Beaumont, Tex. Detering Co.	Memphis, Tenn. Memphis Sash & Door Co.
Birmingham, Ala. Birmingham Sash & Door Co.	Mobile, Ala. Smith Kelly Supply Co.
Church Point, La. Evangeline Brokerage Co.	New Orleans, La. Deep South Sash & Door Co.
Corpus Christi, Tex. McCord Lumber Co.	Port Arthur, Tex. Gulf States Plywood Co.
Grenada, Miss. J. H. Oliver & Co.	Shreveport, La. Modern Appliance & Supply Co.
Houston, Tex. Maarice Angly Lumber Co.	Savannah, Ga. Dixie Plywood Co., Inc.
Jackson, Miss. Deep South Sash & Door Co.	



## ALL-FLEXALUM

### Blinds —

made by the following  
list of manufacturers  
throughout the country:

Albany, Ga. Albany Wood Prods. Co.	Baltimore, Md. Globe Venetian Blind
Allentown, Pa. M. C. Weeks	Baton Rouge, La. McInnis & Gray Venetian Blind Co.
Amarillo, Tex. Amarillo Venetian Blind Co.	Beaumont, Tex. McInnis Blind Co.
Arcadia, Cal. Colonial Blind Corp.	Billings, Mont. Jenkins Venetian Blind
Ardmore, Okla. Ardmore Venetian Blind Mfg. Co.	Birmingham, Ala. J. F. Day Screen & Weatherstrip Co.
Atlanta, Ga. ABC Venetian Blind Co.; Atlanta Venetian Blind	Boston, Mass. Rex Venetian Blind Co.
Atlanta, Iowa Majestic Venetian Blind	Vancouver, B. C., Canada Vogue Venetian Blind Co.
Augusta, Ga. Coffey Aluminium Bldg. Prods. Co.	Buffalo, N. Y. Sunshade Venetian Blind Corp.
Austin, Tex. Dill's Venetian Blind Co.	Charlottesville, N. C. Piedmont Industries Co.
Bakersfield, Cal. Dawn Venetian Blind Co.	

Chattanooga, Tenn. Chattanooga Venetian Blind Co.	Harrisberg, Pa. Southern Venetian Blind Co.
Chicago, Ill. Acme Venetian Blind Co.; Phil Kayman & Co.; Sterling Venetian Blind Mfg. Co.	Hawthorne, Cal. Abalone Mfg. Co.
Cincinnati, Ohio Darscraft Products Inc.	Hilo, Hawaii Wm. J. Kimi Ltd.
Cleveland, Ohio Cleveland Venetian Blind Inc.; Perfection Venetian Blind Co.	Honolulu, Hawaii Artistic Venetian & Bamboo Blind Co.; Honolulu V.B. Co.; Island V.B. Co.
Clovis, N. M. Motts Venetian Blind Co.	Hot Springs, Ark. Thornton Venetian Blind Mfg. Co.
Colorado Springs, Colo. Tilt-Rite Venetian Blind Co.	Heaton, Tex. DeLuxe Venetian Blind Co.; Lee Venetian Blind Co.
Columbia, S. C. Southern Venetian Blind Co.	Indianapolis, Ind. J. H. Cox Mfg. Co.
Columbus, Ohio Columbus Venetian Blind Mfg. Co.	Jackson, Miss. Ace Venetian Blind Co.; Dixie Venetian Blind Co.
Compton, Cal. Gold Seal Venetian Blind Co.	Jacksonville, Fla. Thompson Shade & Venetian Blind Co.
Corpus Christi, Tex. Omaha Venetian Blind Co.	Kapaun, Hawaii Hawaii V. B. Mfg. Co.
Culver City, Cal. Craftsman Venetian Blind Co.	Knoxville, Tenn. Venetian Blind Wholesalers
Dallas, Tex. Sam A. Wing Co.	Lake Charles, La. McInnis & Gray Blind Co.
Davenport, Iowa Belle Blind Co.	La Mesa, Cal. Bal's Venetian Blind Co.
Denver, Colo. Hollywood Venetian Blind Co.; Weiss Venetian Blind Co.	Lawton, Okla. Lawton Venetian Blind Mfg. Co.
Des Moines, Iowa Barth Mfg. Co.	Little Rock, Ark. Little Rock Tent & Awning Co.
Detroit, Mich. Porter Venetian Blind Inc.; Lion Venetian Blind Co.	Long Beach, Cal. Del Mar Venetian Blind Co.; Modern Venetian Blind Co.; Southern Venetian Blind Co.
Dunbar, W. Va. Frank's Venetian Blind Co.	Los Angeles, Cal. Eklens Venetian Blind Co.; Los Angeles Venetian Blind Co.
Durham, N. C. Shaw's Venetian Blinds	Lubbock, Tex. O'Hair Mfg. Co.
East Paterson, N. J. Jenacraft Mfg. Co.	Lufkin, Tex. Ramsey & Son Venetian Blind Factory
El Paso, Tex. Southwestern Venetian Blind Co.	Macon, Ga. The Ability Co.
Eugene, Ore. Sambled Venetian Blind Co.	Manchester, N. H. Rex Venetian Blind Co.
Eureka, Cal. Ballinger V. B. Co.	Memphis, Tenn. Williams Shade & Awning Co.
Everett, Wash. Wellworth Venetian Blind Co.	Miami, Fla. Sistrunk Inc.
Fort Dodge, Iowa Burch Mfg. Co.	Milwaukee, Wis. Perkex Prods. Co.
Fort Worth, Tex. Apco Blind Co.	Minneapolis, Minn. Acme Venetian Blind Mfg. Co.
Greenville, Miss. Louis T. Garrett Co.	Monroe, La. Smith Venetian Blind Co.
Harrison, Tex. Harrington Venetian Blind Co.	Montreal, Que. Canada Connor Venetian Blinds

New Britain, Conn. Berkshire Inc.; Nex Venetian Blind Co.	New Orleans, La. C. Bel for Awnings; Foster Co.	St. Petersburg Beach, Fla. United Venetian Blind Co.
New York City, N. Y. Aleo Venetian Blind Co.; Handy Venetian Blind Co.; Sterling Venetian Blind Co.	Odessa, Tex. Odessa Venetian Blind Mfg. Co.	Salt Lake City, Utah Jenkins Co.
Oklahoma City, Okla. Kingo Inc.	Ottawa, Ont., Canada Connor Venetian Blinds	San Angelo, Tex. Kettler V. B. Co.
Orange, Tex. Morrow Home Supply	Pasadena, Cal. Associated Mfg. Co.	San Antonio, Tex. O'Krent Floor Covering Co.
Pawtucket, R. I. Rex Venetian Blind Co.	Pensacola, Fla. Tate's Venetian Blind Service Co.	San Francisco, Cal. Sammaster Prods. Co.
Pennsauken (Camden), N. J. Sunbeam Venetian Blind Co.	Petaluma, Cal. Walter Knight	San Jose, Cal. LaVolo Venetian Blind Mfg. Co.
Philadelphia, Pa. Cedar Craft Venetian Blind Mfg. Co.; Craft Blitt Venetian Blind Co.; Lee Venetian Blind Co.; Onyx Venetian Blind Co.	Port Arthur, Tex. McInnis & Gray	San Pablo, Cal. Western Interiors
Pleasantville, N. J. Seashore Venetian Blind Co.	Port Dover, Ont., Canada Port Dover Venetian Blinds	Santa Ana, Cal. Rife-Lits Venetian Blind Co.
Reading, Pa. M. C. Weeks	Portland, Ore. Al Jensen (Lineoleum & Venetian Blind); Monark Sales Co.	Santa Barbara, Cal. Pacific Venetian Blind Co.
Redwood City, Cal. Carris Mfg. Co.	Roanoke, Va. Resco Window Co. of Roanoke	Seattle, Wash. Nicholson's Venetian Blinds
Reno, Nev. Quimby's Reno Awning & Blind Factory	Rochester, N. Y. Charles A. Norton Co.	Shreveport, La. Hodnett Blind Co.
Richmond, Va. Council Mfg. Co.	Sacramento, Cal. San Stop & Wyman Fabrics	Spokane, Wash. Lite Time Venetian Blind Co.
Riverside, Cal. Best Blitt Venetian Blind Co.	St. Louis, Mo. American Venetian Blind Mfg. Co.; Royal Venetian Blind Mfg. Co.; Stillo-Craft Mfrs. Inc.	Stockton, Cal. Souza's V. B. Service
Roanoke, Va. Resco Window Co. of Roanoke		Tampa, Fla. Duchess Venetian Blind Co.; Todd's Venetian Blinds
		Toledo, Ohio Art Venetian Blind Service
		Toronto, Ont., Canada Met-Wo Industries Ltd.
		Tulsa, Okla. Kelly Mfg. Co.; Apco Corp.
		Utica, N. Y. Mohawk Venetian Blind Co.
		Van Nuys, Cal. Capitol Venetian Blind Co.
		Waikuku, Maui, Hawaii Mizuka Venetian Blind Mfg. Co.
		Washington, D. C. The Shade Shop
		Watervliet (Albany), N.Y. Hooker Venetian Blind Co.
		West Palm Beach, Fla. Modern Venetian Blind Co.
		Wichita, Kans. Modern Venetian Blind Co.
		Wichita Falls, Tex. A. & E. Venetian Blind Co.
		Wilkes Barre, Pa. Standard Venetian Blind Co.
		Wilmington, Del. M. C. Weeks
		Winston Salem, N. C. Dize Awning & Tent Co.
		York, Pa. M. C. Weeks

**AMERICAN BAMBOO CORP.**  
**JAMAICA, N. Y.**

Boston, Mass. Austin & Eddy, Inc.  
Haddon Heights, N. J. A. R. Henricks  
Hamilton, Ont., Canada Bart W. Dreyer Co.  
Coast To Coast Agency  
Indianapolis, Ind. Indiana Distributing Co.

**AMERICAN SCREEN PRODUCTS CO.**  
**MIAMI, FLA.**

Atlanta, Ga. Walter S. Johnson & Sons  
Bay Village, Ohio Earle D. Burson, Jr.  
Chicago, Ill. Durrle Sales Co.  
Columbus, Ohio J. Stanley McKee  
Dallas, Tex. Paul Bowen  
Denver, Colo. Roy L. Rogers  
El Monte, Cal. Calmetco  
Honolulu, Hawaii Hal Styles Sales  
Engineers & Associates  
Miami, Fla. Joseph F. Coary



**AMERICAN STA-DRI CO.**  
**BRENTWOOD, MD.**

Albany, N. Y. Wholesale Service Supply Corp.  
Atlanta, Ga. Pittsburgh Plate Glass Co.; Randall Brothers  
Baltimore, Md. The American Sta-Dri Co.  
Baton Rouge, La. Harrison Paint Co.; Louisiana Concrete Prods.  
Binghamton, N. Y. Wholesale Service Supply Corp.  
Birmingham, Ala. Pittsburgh Plate Glass Co.  
Bristol, Tenn. Wholesale Building Supply, Inc.  
Chapman, Ala. W. T. Smith Lumber Co.  
Chattanooga, Tenn. Glidden Co.  
Chicago, Ill. Del-Mar Services, Inc.  
Danville, Ill. Goodloe E. Moore  
Daytona Beach, Fla. Snows Paint & Glass Co.  
East Providence, R. I. Read & Co.  
Evansville, Ind. Glidden Co.  
Fall River, Mass. Read & Co.  
Fort Lauderdale, Fla. Sta-Dri Cement Paint Distributors  
Frederick, Md. Frederick Trading  
Grand Rapids, Mich. Grand Rapids Supply  
Harrisonburg, Va. Valley Blox  
Houston, Tex. Industrial Waterproofing Co.  
Indianapolis, Ind. Spieklemier Co.  
Joliet, Ill. Fred H. Wicks  
Logansport, Ind. Bardall's Paints of Logansport  
Long Branch, N. J. The American Sta-Dri Co.

**ANDERSEN CORP.**  
**BAYPORT, MINN.**

Anderson Window Units are available to established lumber and millwork dealers from the warehouse stocks of the following wholesale distributors

Albany, N. Y. Iroquois Millwork Corp.; Robbins Door & Sash Co.  
Alexandria, La. Davidson Sash & Door  
Allentown, Pa. Robbins Door & Sash Co.  
Amarillo, Tex. Amarillo Sash & Door Co.; United Sash & Door Co.  
Ansonia, Conn. Cleary Millwork Co. Inc.

Birmingham, Ala. Birmingham Sash & Door Co.  
Bismarck, N. D. Bardwell-Robinson Co.; Builders Supply Co.  
Boston, Mass. Brockway-Smith-Haigh-Lovell Co.  
Buffalo, N. Y. Iroquois Door Co.; The Whitmer-Jackson Co. Inc.  
Cedar Rapids, Iowa Williams & Hentling Co.

Lake Charles, La. Davidson Sash & Door  
Lancaster, Pa. J. W. Quigley Co.  
Lansing, Mich. Grand Rapids Sash & Door Co.  
Lexington, Ky. Combs Lumber Co.  
Louisville, Ky. Byron Sash & Door Co.; Huttig Sash & Door Co.  
Lubbock, Tex. Lubbock Sash & Door Co.

Springfield, Mass. Brockway-Smith-Haigh-Lovell Co.; Marlin Lumber Co.  
Syracuse, N. Y. Iroquois Door Co.  
Toledo, Ohio Allen A. Smith Co.  
Traverse City, Mich. Grand Rapids Sash & Door Co.  
Tulsa, Okla. General Sash & Door Co.

Watertown, S. D. Watertown Sash & Door Co.  
Waukesha, Wis. Wilbur Lumber Co.  
Wichita, Kan. United Sash & Door Co.  
Wilkes-Barre, Pa. Robbins Door & Sash Co.  
Williamsport, Pa. Robbins Door & Sash Co.  
Youngstown, Ohio The Whitmer-Jackson Co.

**HERE ARE THE FAMOUS**

**Andersen Windowalls**

COMPLETE WOOD WINDOW UNITS

- **FLEXIVENT WINDOW**  
The newest WINDOWALL — amazingly flexible, high in quality, low in cost!
  - **CASEMENT WINDOW**  
Outswinging casement for every need, engineered for efficient service.
  - **PRESSURE SEAL WINDOW**  
Complete double hung unit with removable sash and storm-screen combination.
  - **GLIDING WINDOW**  
Sash glide open from side to side, instantly removable for easy cleaning.
- Andersen WINDOWALLS are available through established lumber and millwork dealers from warehouse stocks of the listed distributors, including the West Coast area.

**Andersen Corporation**  
**BAYPORT, MINNESOTA**

Charlotte, N. C. Huttig Sash & Door Co.  
Chicago, Ill. Associated Door & Plywood Co.; Morgan Sash & Door Co.; Roberts Sash & Door Co.  
Cincinnati, Ohio Acme Sash & Door Co.; Cincinnati Sash & Door Co.  
Cleveland, Ohio The Whitmer-Jackson Co. Inc.  
Columbus, Ohio Huttig Sash & Door Co.  
Cressona, Pa. J. R. Quigley Co.  
Dallas, Tex. Huttig Sash & Door Co.  
Dayton, Ohio Dayton Sash & Door Co.; Ohio City Sash & Door Co.  
Denver, Colo. The Denver Reserve Supply Co.  
Detroit, Mich. Kimball & Russell, Inc.  
Duluth, Minn. The Radford Co.; Scott-Graff Co.  
Fargo, N. D. Bardwell-Robinson Co.  
Flint, Mich. Flint Sash & Door Co. Inc.  
Frankville, Pa. Robbins Door & Sash Co.  
Glencaster City, N. J. J. R. Quigley Co.  
Goshen, Ind. Goshen Sash & Door Co.  
Grand Rapids, Mich. Grand Rapids Sash & Door Co.  
Great Falls, Mont. Building Service, Inc.  
Harrisburg, Pa. J. R. Quigley Co.; Radford & Sangers, Inc.  
Harrison, N. J. Bosman & Casson  
Houston, Tex. Houston Sash & Door Co.  
Indianapolis, Ind. Midland Building Industries, Inc.  
Ithaca, N. Y. Robbins Door & Sash Co.  
Jackson, Miss. Jackson Sash & Door Co.  
Jacksonville, Fla. Huttig Sash & Door Co.  
Kalamazoo, Mich. Grand Rapids Sash & Door Co.  
Kansas City, Mo. American Sash & Door Co.  
Knoxville, Tenn. Huttig Sash & Door Co.  
Lafayette, La. Davidson Sash & Door Co. Inc.

**ARTCRAFT ORNAMENTAL IRON**

provides the finest stock and custom work at low cost. No assembly on the job. Custom work is produced from your specifications with careful attention to detail. Free 40 page catalog available.

**ARTCRAFT ORNAMENTAL IRON CO.**  
**720 E. HUDSON, COLUMBUS 11, OHIO**

**ATLAS ELECTRIC PRODS. CO.**  
**BROOKLYN, N. Y.**

Bronx, N. Y. Dave Ebenau  
Brookline, Mass. Harry Kramer  
Chicago, Ill. Simon Electric Sales  
Dallas, Tex. Buehler-Dunlap  
Denver, Colo. Roth Sales  
Detroit, Mich. Hoffman Bros.  
Kansas City, Mo. Curt Conrad  
Little Rock, Ark. Sam A. Southall

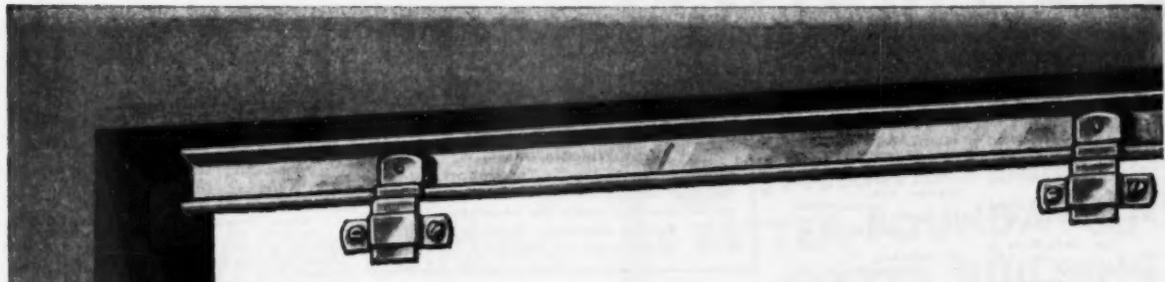
**ROBERT N. BALTZ & CO., INC.**  
**EVANSTON, ILL.**

Buffalo, N. Y. Clair W. Goodman  
Cincinnati, Ohio Robert B. Warn  
Columbus, Ohio Associated Industries, Inc.  
Culver City, Cal. William K. Smith  
New York, N. Y. Jerome Co.  
Oklahoma City, Okla. Geo. O. Leash



**BARBER-COLMAN CO.**  
**ROCKFORD, ILL.**

Akron, Ohio S. P. Shafer Door Sales  
Albany, N. Y. Edward P. Jennings, Jr.  
Amarillo, Tex. Barcol Overdoors of Amarillo  
Asheville, N. C. Alan H. Shaw  
Atlanta, Ga. Industrial Equip. Co.  
Baltimore, Md. J. D. Slaughter Co.  
Billings, Mont. Billings Sash & Door Co.  
Birmingham, Ala. Jack Yaeger & Co.  
Boise, Idaho Wholesale, Inc.  
Bradenton, Fla. Barcol Overdoors of West Florida  
Buffalo, N. Y. Barcol Overdoors of Buffalo  
Butte, Mont. John C. Jernberg  
Canton, Ohio Barcol Overdoors of Canton  
Caracas, Venezuela V. J. Villosa & Cia  
Charleston, W. Va. Ira F. Kahn Co.  
Charlotte, N. C. Marko Engineering Co.  
Chattanooga, Tenn. Hale & Wallace, Inc.  
Chicago, Ill. E. H. Kietzman Co.  
Cincinnati, Ohio G. J. Strover  
Cleveland, Ohio G. J. Newlin Co.  
Columbia, S. C. Allied Specialties Sales  
Columbus, Ohio Howard S. Storer Co.  
Dallas, Tex. Barcol Overdoors of Dallas  
Dayton, Ohio Barcol Overdoors of Dayton



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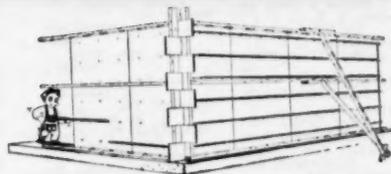
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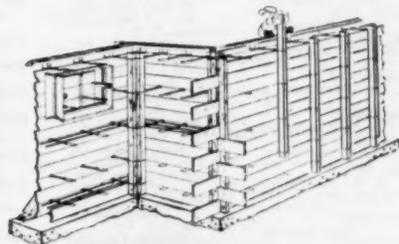
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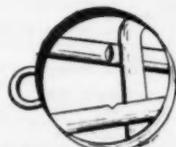


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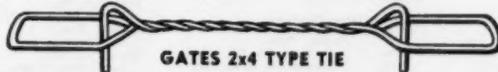


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 Quincy, Ill. Quincy Building Material Co.  
 Raleigh, N. C. Peden Steel Co.  
 Reading, Pa. Berkshire Insulation Co.  
 Reno, Nev. Flanigan Warehouse Co.  
 Richmond, Va. Sash, Door & Glass Corp.  
 Roanoke, Va. C. Grady Cates  
 Rochester, N. Y. Keystone Builders Supply Co., Inc.  
 Rockford, Ill. Architectural Iron Inc.  
 Sacramento, Cal. Friend & Terry Lumber Co.  
 Saginaw, Mich. Koehler Bros.  
 St. Louis, Mo. Sears & Pica Div. of Burroughs Glass Co.  
 Salisbury, Md. Raymond N. Day  
 Salt Lake City, Utah Morrison-Merrill & Co.  
 San Antonio, Tex. Alamo Window & Door Co.  
 Sandusky, Ohio George C. Matthes Coal & Supply Co.  
 San Francisco, Cal. Honolulu Iron Works Co.  
 San Jose, Cal. San Jose Steel Co., Inc.  
 Santa Barbara, Cal. Santa Barbara Glass Co. Inc.  
 Santa Rosa, Cal. Associated Building Products

Savannah, Ga. Neal-Bian Co.  
 Schenectady, N. Y. Steel Supply Co.  
 Shreveport, La. Ideal Building Material Co.  
 Sioux City, Iowa Eugene F. Wilsey  
 Sioux Falls, S. D. Builders' Supply Co.  
 South Bend, Ind. E. R. Newland Co., Inc.  
 Spokane, Wash. Spokane Concrete Block Co.  
 Springfield, Ill. Peter Vredenburg Lumber Co.  
 Springfield, Mass. A. D. Donald & Co., Inc.  
 Springfield, Mo. Farm & Home Supply Co.; Reynolds Mfg. Co.;  
 St. Louis, Mo. Building Products Supply Co.  
 Stockton, Cal. Central Valley Hdw. Co.  
 Stratford, Conn. Earl R. Smith, Inc.  
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 Taunton, Mass. Atlas Builder Specialty Co.  
 Terre Haute, Ind. Associated Door & Plywood Co. of Indiana, Inc.  
 Tulsa, Okla. General Sash & Door Co.  
 Utica, N. Y. American Hard Wall Plaster Co.  
 Warren, Ohio Ohio Glass & Sales Co.  
 Waterloo, Iowa Zierath Builders' Supply Co.  
 Waukegan, Ill. Waukegan Steel Sales, Inc.  
 Wenatchee, Wash. E. T. Pybus Co.  
 Wheeling, W. Va. H. L. Seabright Co.  
 Wichita, Kan. Wichita Building Material Co.  
 Wilmington, Del. Warner Co.  
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**DRYWALL PRODUCTS**  
 include:

No. 101 Edge Guard  
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Sold thru lumber and building supply dealers

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## Sherman Power Digging Means Profit . . . Even on Small Jobs

Get all the advantages of power digging, even on smaller jobs where you can't afford to use heavy equipment.

Mounted on a rubber-tired tractor, the Sherman Power Digger makes a compact outfit that gets in and out of tight spots quickly and easily, moves from job to job at top tractor speeds.

It gets digging done in a fraction of the time and cost of manual labor. It digs as deep as 10' below grade in mud, hardpan, gravel, shale or stony ground. Wide arc of swing allows ample reach for piling or loading. Instant fingertip control harnesses forces up to 10,000 pounds at shovel teeth.

The Sherman Power Digger is low in initial cost, economical to operate and maintain . . . often pays for itself on the first job. Write today for free descriptive bulletin No. T-51.



Heavy, sticky "gumbe" mud presents no problem for the Sherman Digger.



The Sherman Power Digger operates in spots where bigger machines can't.

© SHERMAN PRODUCTS INC., 1954

Designed, Engineered and Manufactured Jointly by  
**SHERMAN PRODUCTS, Inc.**  
 Royal Oak, Michigan  
**WAIN-ROY CORPORATION**  
 Hubbardston, Mass.

Patent No. 2,303,825  
 Other patents pending.

# Sherman

**PRODUCTS, INC.**  
 ROYAL OAK, MICHIGAN




## ROLLA-HEAD

America's Most Popular Custom-Made  
**ALL-METAL VENETIAN BLIND**  
 Custom-made by independent venetian blind  
 manufacturers with equipment and processes by  
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Charlotte, N. C. Charlotte Venetian Blind Co.	New Britain, Conn. Berkshire Venetian Blind Co.
Chicago, Ill. Acme Venetian Blind Co.; Chicago Venetian Blind Co.; Sterling Venetian Blind Co.	New York, N. Y. Resco Venetian Blind Co.
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Cleveland, Ohio Mintz Co.	Oklahoma City, Okla. Acme Mfg. Co.
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Denver, Colo. Weiss Venetian Blind Mfg. Co.	Philadelphia, Pa. Apex Venetian Blind Co.; Blocker Venetian Blind Co.; Ritz Venetian Blind Co.; Vogue Venetian Blind Co.
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Greensboro, N. C. Moore Venetian Blind Co.	Rosnoke, Va. Rusco Window Co.
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	Continued next page

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THE ANSWER TO YOUR  
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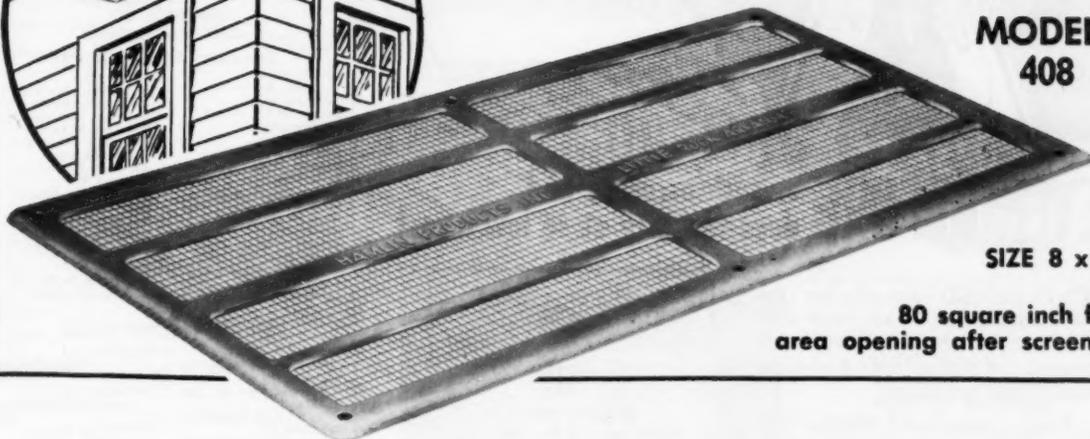


## SAVE TIME...SAVE MONEY

and do a better VENTILATING Job

Two sizes: MODEL 404  
MODEL 405

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408



SIZE 8 x 16

80 square inch free  
area opening after screening

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- Hamlin ventilators are die cast from properly alloyed new aluminum . . . resist mortar acids and all types of atmospheric conditions.
- Hamlin's new Model 404 cornice ventilator is especially designed for areas where 3" width is maximum permissible opening. It is 4" x 16" overall dimension with 3" x 15" opening.
- Hamlin ventilators are equipped with 8 mesh aluminum screens and are packed one dozen to the carton. Foundation ventilators are made in 7 models, standard 8" x 16" size is sold plain or with 8 mesh aluminum screens and aluminum covers.
- Hamlin ventilators are uniform in size, they are designed for easy installation, thus reducing site labor to a minimum.
- Builders, contractors, architects and FHA officers like Hamlin ventilators because their exclusive design gives maximum ventilation and beautifies the home.
- Hamlin ventilators are nationally advertised and sold throughout the U. S. A. and Canada by building material and hardware jobbers. Write direct for complete details and name of your nearest supplier.

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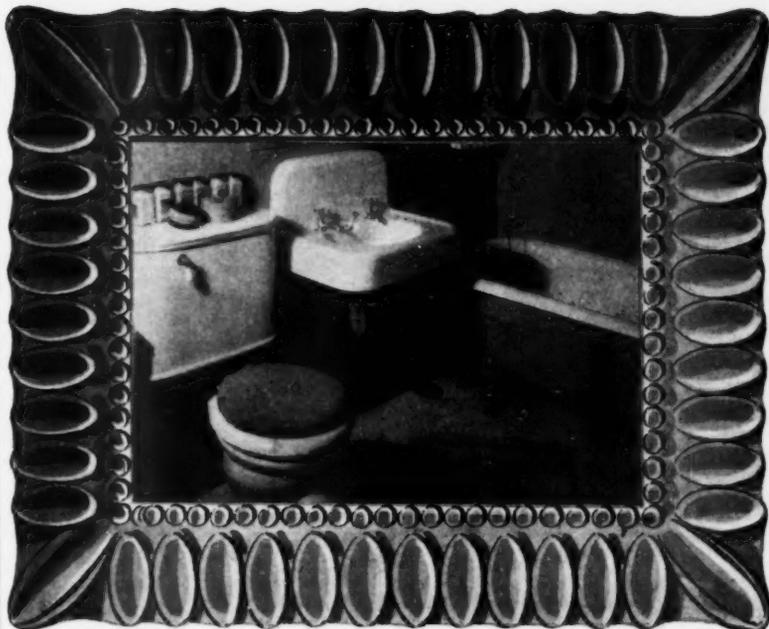
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Continued next page



**STEP INTO THE  
REMODELING PICTURE**

**WITH FIAT®**

You can step right up to those profit-making bathroom remodeling jobs because only you can give Mr. and Mrs. Home-Owner what they want:

**MORE ROOM  
ADDED CONVENIENCE  
MODERN FIXTURES**

How? With FIAT "packaged" Showers. That's because it's so easy to plan a really modern, convenient bathroom with FIAT. Requiring but a minimum of floor space, they "fit" into a variety of plans . . . offer more overall room . . . give the wanted convenience of shower bathing. And, this modern, "packaged" bathroom fixture is so easy to install . . . the whole job can be completed in less than a morning's time.

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 Herman M. Brown Co. Herman M. Brown Co.  
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 Fresno, Cal. Edward R. Bacon Co.  
 Grand Rapids, Mich. Earle Equip. Co.  
 Hartford, Conn. Holmes-Talcott Co.  
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 Continued next page

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by **GENERAL BRONZE CORP.**  
 GARDEN CITY, N. Y.



Rows of G-E Deluxe Warm fluorescent lamps are concealed behind panels of corrugated translucent plastic. Panels are lightweight, easy to install.

Let a G-E Light Conditioned bathroom

# sell your houses faster

**T**HIS room shows how lighting can add many times its cost to the value of a house. Leading interior designer Bertha Schaefer created it for a 5-page General Electric ad in the February 13th *Saturday Evening Post*.

Light Conditioning makes this bathroom a show-off selling feature, the kind many alert builders use to close sales.

Keys to the room's beauty and use-

fulness are five General Electric Light Conditioning ideas.

- ① G-E Deluxe Warm fluorescent lamps shine through a plastic ceiling to give the effect of an open sunlit sky.
- ② Built-in sunlamps above the mirrors make the bathroom a sunroom, too.
- ③ G-E fluorescent lamps, flanking the center mirror, give shadow-free light for shaving or making-up.
- ④ Unusual luxury touch: G-E PAR-38

spotlights serve as pedicure lamps.

- ⑤ A shielded General Electric ozone lamp banishes odors electronically.

Any or all of these General Electric Light Conditioning ideas can add sales appeal to your bathrooms at a minimum of extra cost. Light Conditioning can do just as much for other rooms, too. For more information on G-E Light Conditioning, write General Electric, Dept. 166-AB-4, Nela Park, Cleveland 12, O.

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 Pittsburgh, Pa. Gravo-Doyle Co.  
 Pocatello, Idaho. Intermountain Equip. Co.  
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 Portland, Ore. Loggers & Contractors Mch'y. Co.  
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 Houston, Tex. B-B Engineering Co.  
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 Buffalo, N. Y. Rupp Equipment Co. Prime-Best, Inc.  
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 Canton, Ohio Marks Tractor & Equipment Co. George T. Ryan Co.  
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 Charleston, W. Va. Walker Machinery Co. North Carolina Equipment Co. Turner Supply Co.  
 Charlotte, N. C. North Carolina Equipment Co. Chattanooga, Tenn. Southern Equipment & Tractor Co. of Monroe, Inc.  
 Chattanooga, Tenn. Osborn Equipment Co. Montgomery, Ala.  
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 Cincinnati, Ohio Highway Equipment Co. A. E. Hudson Co.  
 Cleveland, Ohio Marks Tractor & Equipment Co. Nashville, Tenn.  
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 Dallas, Tex. Browning-Ferris Machinery Co. New Haven, Conn.  
 Dayton, Ohio Flack Equipment Co. Genner Equipment Corp.  
 Denver, Colo. Western Machinery Co. Norfolk, Va.  
 Des Moines, Iowa Hawkeye Machinery Co. Hampton Roads Tractor & Equipment Co.  
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**INLAND STEEL PRODUCTS COMPANY**

## These Jaeger machines help you cut building costs



### Jaeger's faster mixing cycle increases daily yardage

You charge in 5 to 7 seconds with the Jaeger "Skip Shaker" loader. You mix more thoroughly with Jaeger's "criss-cross re-mix" action. You discharge in another 5 to 7 seconds, with Jaeger's extra-big drum blades and "catch-all" spoon, no matter how sticky the mix.

With this speed you get Jaeger long-life construction: Machined high carbon steel drum tracks, Timken bearing drum rollers, oversize engines, highest type automotive transmission and many other advantages by which Jaeger mixers out-perform and outlast others.



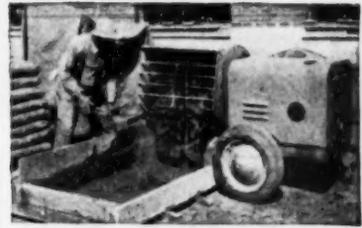
#### 3 1/2 S with Shaker Hopper puts out 12 to 15 more yards a day

Measuring batch hopper loads while mixing, then shakes load into drum the instant its gate is opened. Biggest yardage producer of all small mixers.



#### Jaeger 3 1/2 S mixer has double-action "V" bottom drum

Famous Jaeger-patented drum design doubles the mixing action of any ordinary tilter; also produces cleaner discharge of concrete, mortar or plaster.



#### "Power Hoe" plaster-mortar mixers save labor and material

Jaeger's multi-blade pugmill mixing action produces material that is easier to spread and of full strength even when it carries more sand. Built in 3 1/2 and 6 1/2 ft. sizes to keep ahead of any size crew, all day and every day. Jaeger's leak-proof seal protects the Timken bearing drum shaft; bigger engines have automotive transmissions; drums are of heavier gauge steel.



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Available with either material cage or 14 ft. concrete bucket, and in 10' sections up to 67 ft. high. Up to 37 ft. heights it is self-raising. Moves around job on its own skid base. Automatic safety device positively prevents falling even if cable breaks.



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Costing no more than "old standard" 60 and 105 ft. sizes, "Air Plus" 75 and 125 ft. compressors deliver the additional air you need to run today's tools at full pressure and efficiency. Other sizes to 600 ft.

#### Big capacity small pumps

60 lb. aluminum "Bantam" pumps 5100 gph. New 2" semi-steel pump delivers 10,000 gph. yet weighs only 160 lbs. on base, 190 on pneumatic tires. Other sizes to 10".

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521 Dublin Avenue, Columbus 16, Ohio

Sales, Rentals and Service in 153 Cities of U.S. and Canada. Send for Catalog.

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with fully automatic electric ignition! Heat even if electric power fails! U. L. listed for No. 2 oil! Many other advantages. Also gas models. See ad page 260.

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 Elbe, Wash. H. F. Kristofferson  
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 Ephrata, Wash. Loy's Refrigeration Co.  
 Eugene, Ore. Barker Electric  
 Everett, Wash. Everett Home Appliance Co.; Johnson-Thorpe Furniture Co.  
 Falls Church, Va. Home Heating Co.  
 Fayetteville, N. C. Glenn Newberry  
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 Fernandina, Fla. Seransen Sales & Service  
 Fort Benton, Mont. Central Service Station  
 Gainesville, Fla. C. P. Dressler  
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 Glasgow, Mont. Markles  
 Glenbrook, Conn. Crescent Sales & Service  
 Glendive, Mont. Glendive Electric  
 Grand Rapids, Mich. Michigan Automatic Heating  
 Grand Rapids, N. D. Mills Lumber Co.  
 Grandview, Wash. Matheson's  
 Grangerville, Idaho Lindsey Electric Service  
 Grass Valley, Cal. Ace Sheet Metal Prods. Co.  
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 Hammond, Ind. Ervin Kiwinski Heating & Air Conditioning  
 Hewitt, N. J. Daniel E. Welch  
 Indianapolis, Ind. Indiana Heating Corp.

**The FIRST Oil Wall Furnace!**

Fully automatic electric ignition! Heat even if electric power fails! U. L. listed for No. 2 oil! Compact, silent, safe! Low cost! Saves space! See ad page 260.

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 Coosa, Fla. Coosa Sheet Metal & Roofing Co.  
 Coeur d'Alene, Idaho Coeur d'Alene Hdwe. Co.  
 Colchester, Ill. Hunt Appliances  
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 Continued next page

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oil and gas furnaces for low-cost, space saving, first floor installation. Clean, quiet, compact, trouble free. See specs in ad, page 260.

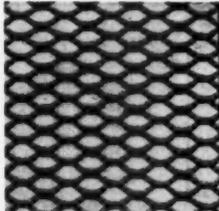
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# Metal Lath and accessories

Manufacturers of over 2,500 items  
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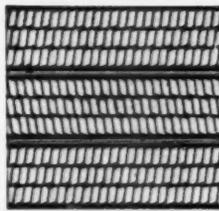


### Smalmesh Metal Lath

A general utility lath. Can be readily bent or formed for furred or ornamental members. Due to the small, rigid mesh a minimum of plaster is required to produce a perfect key.

**SHEET SIZE:** 27" x 96", packed 10 sheets (20 sq. yds.) per bundle. All sheets squared on both ends.

**MATERIALS AND WEIGHTS** (lb. per sq. yd.): Copper Alloy Steel, Painted—2.50 lb., 3.40 lb., Galv. Sheet Steel 3.40 lb.

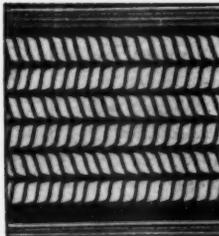


### Specialmesh Metal Lath

A rib lath for walls and ceilings. Saves plaster; provides excellent bond. Ribs  $\frac{3}{8}$ " wide;  $1\frac{1}{2}$ " on centers. Cross strands at  $\frac{1}{4}$ " intervals, reinforced by stiffening members (two between each pair of ribs). Sheets squared on ends. Well suited to "two coat work" or "back plastering."

**SHEET SIZE:** 24" x 96", packed 9 sheets (16 sq. yds.) per bundle.

**MATERIALS AND WEIGHTS** (per sq. yd.): Copper Alloy Steel, Ptd.—2.75 lb., 3.40 lb.

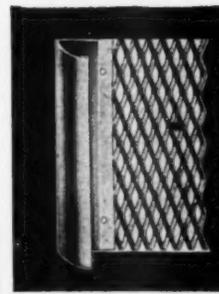


### $\frac{3}{8}$ " Stay-Rib Metal Lath No. 2

Ideal self-furring lath for wide ceiling or wall spans and for floor reinforcing over steel joists.  $\frac{3}{8}$ " heavy ribs spaced 4.8" on centers. Five stiffening members between ribs. Connecting strands at  $\frac{1}{4}$ " intervals. Rigidity of ribs saves labor and material when supports are widely spaced.

**SHEET SIZE:** 24" x 96", packed 9 sheets (16 sq. yds.) per bundle.

**MATERIALS AND WEIGHTS** (per sq. yd.): Copper Alloy Steel, Ptd.—3.40 lb., 4.00 lb.

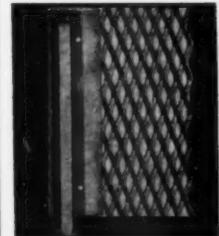


### No. 4 Expansion Casing Bead

(also available with short, solid flange as No. 138.)

For doors, windows and other openings. Applied before plastering. Provides screed to which plasterer can work. Only smooth, quarter-round nose of casing bead exposed after plastering. Integral Expansion Wing reinforces plaster. Rigid flange insures tight fit to jamb.

**MATERIALS:** 24 ga. Tight Coat Galv. Steel  
**LENGTHS:** 7 ft., 7 ft. 3 in., and 10 ft.  
**GROUNDS:**  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in. (also  $\frac{1}{8}$  in., short flange only)  
**WEIGHT** (per 1,000 lin. ft.): 315 lb. (Short Flange—235 lb.)  
**PACKING** (per ctn.): 7 ft.—80 pcs.; 7 ft. 3 in.—80 pcs.; 10 ft.—60 pcs.



### No. 66 Expansion Casing Bead

(also available with short, solid flange—22 ga.) Square design with  $\frac{3}{16}$ " return. Expansion Wing feature affords excellent plaster bond and reinforcement; minimizes plaster cracking. Ridge in nailing flange insures tight fit.

**MATERIAL:** 24 ga. Tight Coat Galv. Steel  
**LENGTHS:** 7 ft., 7 ft. 3 in., and 10 ft.  
**GROUNDS:**  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in. (also  $\frac{1}{8}$  in., short flange only)  
**WEIGHT** (per 1,000 lin. ft.): 260 lb. (Short Flange—240 lb.)  
**PACKING** (per ctn.): 7 ft.—80 pcs.; 7 ft. 3 in.—80 pcs.; 10 ft.—60 pcs.

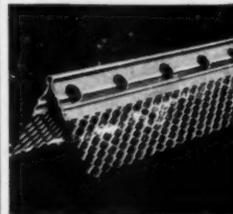


### Milcor Corner-Ex

Finished edges. Center rib guides Corner-Ex accurately into corner. Design and contour eliminate any projections interfering with plastering. Wired together in sub-bundles of 25 pcs. each. Packed three sub-bundles (75 pcs.—600 ft.) per carton.

**SIZES:** 2" x 2" x 96"; 3" x 3" x 96".

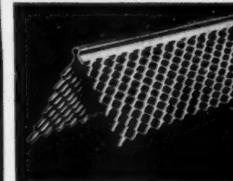
**WEIGHTS** (per 1,000 lin. ft.): 2"—100 lb.; 3"—140 lb.



### Super-Ex Corner Bead

Combines advantages of Expansion and Solid Wing corner beads. Strong, straight nose reinforced by two solid flange sections, strengthened by corrugations. Integral expansion flange makes excellent plaster bond, simplifies erection.

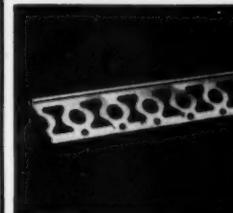
**MATERIAL:** 26 ga. Sheet Steel, Galvanized.  
**LENGTHS:** 7, 8, 9, 10 and 12 ft.  
**WEIGHT** (per 1,000 lin. ft.): 270 lb.  
**PACKING** (per carton): 7 ft.—80 pcs.; 8 ft.—70 pcs.; 9 ft.—60 pcs.; 10 and 12 ft.—50 pcs.



### No. 1 Expansion Corner Bead

Wide expanded metal wing integral with nose of the bead—plaster keys right up to nose; effective plaster reinforcement exactly where needed.

**MATERIAL:** 26 gauge Sheet Steel, Galv.  
**LENGTHS:** 7, 8, 9, 10 and 12 ft.  
**WEIGHT** (per 1,000 lin. ft.): 210 lb.  
**PACKING** (per carton): 7 and 8 ft.—80 pcs.; 9, 10 and 12 ft.—60 pcs.



### Milcor Arch Bead

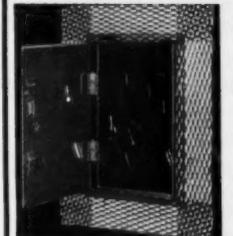
Used straight or curved. Snip one or both flanges with tin snips: Bead can then be formed easily into a smooth arc, without kinks or breaks in the nose, by applying slight pressure with the hands. Minimum of metal cutting required.

**MATERIAL:** 26 gauge Sheet Steel, Galv.  
**LENGTHS:** 7, 8, 9, 10 and 12 ft.  
**WEIGHT** (per 1,000 lin. ft.): 175 lb.  
**PACKING** (per carton): 7 and 8 ft.—80 pcs.; 9, 10 and 12 ft.—60 pcs.



### Milcor Clean Out Doors

Convenient for removing accumulations of chimney debris. New door catch provides positive lock; prevents door from being blown open. New hinge design permits lasting freedom of operation. Wide flanges on frame simplify installation. Stamped from high grade, 16 ga. copper alloy steel. Furnished painted. Size 8" x 8". Packed six doors per carton—shipping weight: 19 lbs.



### Milcor Metal Access Doors

For easy access to utility systems without damage to walls. New spring hinge allows opening to 175°. Number of hinges varies with size of door. Doors removable.

**STYLES:** For plastered walls; Style "K" with expansion wing, Style "L" with solid flange. Style "M" for non-plastered walls.  
**SIZES:** 8" x 8" to 24" x 36".  
**MATERIALS:** Door 14 Ga. steel; housing 16 Ga. steel. Gray primer painted.  
**LOCKS:** Flush cam type, number varies with size of door. Cylinder lock with two keys furnished at extra charge.  
**PACKING:** One per carton.

## INLAND STEEL PRODUCTS COMPANY

4025 WEST BURNHAM STREET • MILWAUKEE 1, WISCONSIN

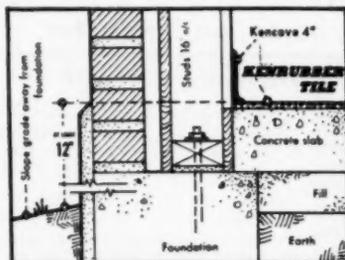
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# Don't hesitate to specify KenRubber tile floors for installation on grade...even over concrete

A. I. A. 23-G



KENRUBBER offers residential specifiers and purchasers decorative and functional advantages no other flooring can match. For instance, die-cut ThemeTile inserts like the ones shown above are a KenRubber exclusive...available in colors and designs that add low-cost "custom" effects to any room.



Above diagram shows approved installation of KenRubber over concrete in contact with the earth.

Now, KenRubber can be installed on the ground floor of popular non-basement homes...without additional labor expense or waterproofing membrane...by using the newly developed KenSet Adhesive.\* And, this is important to you...as well as to your clients...because it means more people can have the luxury and practical advantages of rubber tile flooring...without paying premium prices.

KenRubber's quality features can't be matched! High grade synthetic rubber is carefully compounded to attain tiles unequalled for precision squareness and gauge...clarity and richness of color...durable strength and cleaning ease. Yet, with all of its firm, lasting strength, KenRubber remains the quietest, most comfortable floor you or anybody will ever walk on.

## SPECIFICATIONS AND TECHNICAL DATA

**INSTALLATION:** Over any smooth, firm interior surface removed from greases and oils. New KenSet Adhesive\* makes possible fast, easy and economical installation over concrete in contact with the earth.

**THICKNESSES:** KenRubber is available in (.080") Standard Gauge and 1/8" gauge for normal flooring demands...3/16" gauge for extra-heavy commercial duty.

**SIZES:** Standard tile size is 9" x 9"...with a wide range of special sizes available on order.

*KenRubber is the floor your clients know and want...*



Backed by more full-color advertising than any other rubber tile floor

### Approximate Installed Prices (per sq. ft.)

	Standard (.080") Gauge	1/8" Gauge	3/16" Gauge
KENRUBBER	50¢	65¢	80¢

These costs are based on a minimum area of 1,000 sq. ft. over concrete underfloor. Cost of KenRubber's exclusive die-cut ThemeTile decorative inserts available on request.

★ ★ ★

### Samples and technical literature available

to accredited architects, builders and designers. Write the nearest Kentile, Inc. office listed below...and be sure to request samples of exclusive ThemeTile die-cut inserts, colorful Feature Strip and KenCove, all-purpose, flexible cove base.

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 Augusta, Ga. W. E. Raines Co.  
 Bakersfield, Cal. J. B. Garrett & Son  
 Baltimore, Md. MacCarthy Hdw.  
 Bangor, Me. Better Homes, Inc.  
 Baton Rouge, La. J. P. Smith  
 Billings, Mont. Bldg. Spec. Co.  
 Binghamton, N. Y. F. Thirion & Son  
 Birmingham, Ala. J. Yauger & Co.  
 Bluefield, W. Va. Bailey Lumber Co.  
 Buffalo, N. Y. M'fold Door Sales  
 Burlington, Iowa C. D. Barngrover

Charleston, S. C. Van Smith Bldg. Materials Co.  
 Charleston, W. Va. McKnight Co.  
 Charlotte, N. C. Delph Hdw. & Spc. Co.  
 Chattanooga, Tenn. Floorcoverings, Inc.  
 Cheyenne, Wyo. Powers Bldg. Sup. Co.  
 Chicago, Ill. M'Arthur & Smith  
 Cincinnati, Ohio Darbrow-Gite Assoc., Inc.  
 Cleveland, Ohio Neo Sales, Inc.  
 Columbia, S. C. Colonial Iron Works, Inc.  
 Columbus, Ind. Spec. Prod. Co.  
 Columbus, Ohio M'fold Door Co.  
 Dallas, Tex. M'fold Door Sales  
 Danville, Ill. F. Thirion & Son  
 Darwin, Conn. Hdw. Sales Co.  
 Dayton, Ohio M'fold Door Sales Co.  
 Denver, Colo. E. A. Dixon, Inc.

Continued next page

**NEW CASTLE PRODUCTS, cont'd.**

Detroit, Mich. M'fold Door Sales  
 Dubuque, Iowa Conlon's  
 Evansville, Ind. M'fold Door Co.  
 Fargo, N. D. Mason Supply Co.  
 Fort Smith, Ark. F. Thompson Co.  
 Fort Wayne, Ind. Old Fort Supply Co.  
 Fort Worth, Tex. C. F. Williams Co.  
 Fresno, Cal. Childs & Co.  
 Gloversville, N. Y. Tyler Tile Co.  
 Grand Rapids, Mich. Grand Rapids Screen Co.  
 Greensboro, N. C. Beaman's, Inc.  
 Greensville, S. C. Ross Builders Supply Co.  
 Helena, Mont. Western Printing Co.  
 Houston, Tex. J. A. Walsh Co.  
 Hudson Falls, N. Y. Griffin Lumber Co.  
 Huntington, W. Va. M'fold Door Co.  
 Indianapolis, Ind. Wilson-Parfenheimer Co.  
 Iowa City, Iowa Iowa Builders Supply Co.  
 Jackson, Miss. Best Interiors, Inc.  
 Jacksonville, Fla. Alchell Steel & Equipment Co.  
 Joplin, Mo. Braeskel's  
 Kalamazoo, Mich. Wigginton Builders Supply Co.  
 Kansas City, Mo. Truag & Nichols, Inc.  
 Knoxville, Tenn. Schubert Lumber Co.  
 Lafayette, Ind. McKee Modernfold Sales  
 Las Vegas, Nev. Rexford Supply Co.  
 Lewistown, Pa. Modern Doors, Inc.  
 Lexington, Ky. Lexington Glass Co.  
 Lincoln, Neb. Beckfield Sales Co.  
 Little Rock, Ark. Berlin Wilton Co.  
 Los Angeles, Cal. Modern Building Spec.  
 Louisville, Ky. M'fold Doors  
 Lynchburg, Va. Elton Tate Co.;  
 Montague-Betts Co.  
 Memphis, Tenn. South Glass Co.  
 Miami, Fla. Farray's Hdw. Co.  
 Milwaukee, Wis. W. H. Pinkorn Co.  
 Minneapolis, Minn. Broden Sales Co.  
 Mobile, Ala. Stokes Interiors Gulf Coast  
 Moline, Ill. Builders Sales & Service Co.  
 Montgomery, Ala. South Sash of Montgomery, Inc.  
 Nashville, Tenn. John W. McDougall Co.  
 New Haven, Conn. S. Berry Jennings Co.  
 New London, Conn. W. A. Park Co.  
 New Orleans, La. Modernfold Door Sales  
 New York, N. Y. M'fold Door Co.  
 Norfolk, Va. Craftsman Sales, Inc.  
 Oklahoma City, Okla. Modernfold Door Sales  
 Omaha, Neb. Parker-Trustin Co.  
 Orlando, Fla. Albert R. Brisikin, Inc.  
 Ottawa, Ill. Lockwood Glass Co.  
 Parkersburg, W. Va. Metal Prods. Agency  
 Parkersburg, W. Va. Paul Sullivan Co.  
 Philadelphia, Pa. M'fold Doors  
 Phoenix, Ariz. Laine-Garret Construction & Spec. Co.

Pittsburgh, Pa. Modernfold Door of W. Pa.  
 Plattsburg, N. Y. Dock & Coal Co.  
 Portland, Ore. Mason Supply Co.  
 Portsmouth, Ohio W. A. Neuman Co.  
 Providence, R. I. A. N. Leeming & Sons  
 Rapid City, S. D. Knecht's Lumbermen's Supply  
 Reno, Nev. Builders Mill & Fixture Co.  
 Rensselaer, N. Y. Crawford Door Sales Albany Co.  
 Richmond, Ind. Rennels Builders Products  
 Richmond, Va. J. S. Archer Co.  
 Rochester, N. Y. C. N. O'Brien Co.  
 Rocky Mount, N. C. Carolina Bldg. Supply  
 Roswell, N. M. Welch-Erwin Corp.  
 Rutland, Vt. C. A. Bader Co.  
 Sacramento, Cal. Harry B. Ogle & Assoc.  
 St. Louis, Mo. Modernfold Door Sales  
 St. Petersburg, Fla. Wagner Distributors  
 Salt Lake City, Utah Adler's  
 San Angelo, Tex. San Angelo Bldg. Materials Co.  
 San Antonio, Tex. Modernfold Door Sales Co.  
 San Diego, Cal. Andrew N. Baird Building Spec.  
 San Francisco, Cal. Modern Building Spec.  
 Savannah, Ga. Southern Glass Co.  
 Seattle, Wash. M'fold Doors, Inc.  
 Shreveport, La. H. Knauer & Co.  
 Sioux City, Iowa S. D. Gerkin Co.  
 Sioux Falls, S. D. Builders Supply Co.  
 South Bend, Ind. G. E. Weaver Co.  
 Spokane, Wash. Spokane Sash & Door Co.  
 Springfield, Ill. W. H. Brown  
 Springfield, Mo. H. B. Wall & Sons  
 Stockton, Cal. Scruggs, Inc.  
 Syracuse, N. Y. B. Johnson & Son  
 Texarkana, Tex. Cunningham Lumber Co.  
 Toledo, Ohio M'fold Door Co.  
 Topeka, Kan. Ray Anderson  
 Torrington, Conn. Scott's Venetian Blind Co.  
 Tucson, Ariz. Laing-Garrett Construction & Spec. Co.  
 Tulsa, Okla. M'fold Door Sales  
 Ulica, N. Y. Ulica-Crawford Door Sales Co.  
 Ventura, Cal. Nelson Prod. Co.  
 Washington, D. C. James A. Cassidy Co.  
 Waterloo, Iowa Zierath Builders Supply  
 Wellesley Hills, Mass. McCabe & Dean, Inc.  
 West Des Moines, Iowa C. W. Humphrey  
 West Hartford, Conn. Builders Hdw. Inc.  
 West Palm Beach, Fla. Alex. Gordon & Son  
 West Springfield, Mass. Paul Sullivan Co.  
 Wichita, Kan. C. L. Anderson Co.  
 Wilmington, N. C. Becker Builders Supply  
 Worcester, Mass. B. F. Warsh Co.

**NORMAN PRODUCTS CO. COLUMBUS, OHIO**

Albany, N. Y. Albany Gas Heating Co.;  
 Colonial Heating & Equipment Co.  
 Alliance, Ohio Robertson Heating Supply Co.

Amarillo, Tex. Sanders Co.  
 Atlanta, Ga. Dealers Supply Co.  
 Billings, Mont. Midland Implement Co.



Any architect, dealer in building supplies or contractor can advise you NIXALITE does solve your bird problem effectively.

Distributors located throughout the United States and Canada.

Submit sketch of structure involved, together with any questions on the bird menace direct to planning division of the manufacturer.

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**NORMAN PRODUCTS, cont'd.**

Birmingham, Ala. Snowden Walters Co.  
 Buffalo, N. Y. W. A. Case & Son Mfg. Co.; North Star Supply Co.  
 Canton, Ohio Irwin Steel Co.; Robertson Heating Supply Co.  
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 Cleveland, Ohio Decker-Reichert Steel Co.; Automatic Gas Heating Co.; Sharp Heating Co.  
 Columbus, Ohio F. D. Scheedinger  
 Corning, N. Y. Ward Williams, Inc.  
 Cut Bank, Mont. Glacier Distributors  
 Davenport, Iowa Davenport Heating Supply Co.; Globe Machinery & Supply Co.  
 Dayton, Ohio W. H. Kiefaber Co.  
 Denver, Colo. Claude S. Slocum  
 Miami, Fla. Swigert Air Conditioning Engineers  
 Milwaukee, Wis. Schwab Furnace Co.  
 Minneapolis, Minn. D. O. Clarke Co.  
 Mobile, Ala. Air Conditioning Engineers  
 Moline, Ill. Harry Trautenberg Co.  
 Morehead, Ky. Hackney Electric & Heating Co.  
 New Orleans, La. Fox Engineering  
 Newport News, Va. Roland Co., Inc.  
 New York, N. Y. Overhead Heaters Inc.  
 Oklahoma City, Okla. Mike Supply Co.  
 Omaha, Neb. Plumb Supply Co.; Roberts Supply Co.  
 Peoria, Ill. Champion Furnace & Pipe Co.; Connor Co.; Heating Supply & Service Co.  
 Phoenix, Ariz. Air Conditioning Supply Co.  
 Pittsburgh, Pa. L. E. Bovee

**Norman PRODUCTS COMPANY**  
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Manufacturers of a Complete Line of Gas Heating and Air Conditioning Equipment.

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 Gaithersburg, Md. Samsel S. Weide  
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 Indianapolis, Ind. Riley Heating Equipment Co.  
 Jackson, Miss. Jimmie Wilkinson  
 Jamestown, N. Y. Maxwell Heating Co.  
 Kankakee, Ill. A. C. Supply Co.  
 Kansas City, Mo. L. E. Bruce  
 Keansburg, N. J. Norman Equipment Co.  
 Lansing, Mich. Abbey Distributing Co.  
 Lincoln, Neb. Paramount Supply Co.; Wickham Supply Co., Inc.  
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 Louisville, Ky. Zipper Gas Heating Service Co.  
 Mansfield, Ohio Earnshaw Sheet Metal Co.  
 Memphis, Tenn. Chickasaw Heating & Engineering Co.  
 Meridian, Miss. Southern Pipe & Supply  
 Portland, Me. Suburban U.D.I. Co. of Maine  
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 Portsmouth, Ohio Standard Supply Co.  
 Quincy, Ill. E. Best Plumbing & Heating Supply  
 Richmond, Va. N. W. Martin Bros., Inc.; Richmond Plumbing & Heating Supplies  
 Roanoke, Va. Molan Co., Inc.  
 Rockford, Ill. Tri-State Heating Distributors  
 Rock Island, Ill. Heating Associates  
 St. Louis, Mo. Ahrens & McCarran, Inc.  
 Salt Lake City, Utah H. W. Breinholt Co.  
 Sarasota, Fla. S. F. Bennett, Inc.  
 Shreveport, La. B. I. Hill Ventilating Co.; Radales, Inc.  
 Sioux City, Iowa Wigman Co.  
 Somerville, Mass. Gray Sales Co.  
 Spencer, Iowa Globe Machinery & Supply  
 Springfield, Ill. Capitol Plumbing & Heating Supply; Material Supply Co.  
 Springfield, Ohio Jennings & Crumline Heating Co.  
 Strabreville, Ohio Robertson Heating Supply Co.

Syracuse, N. Y. Gas Heat Corp.  
 Tulsa, Okla. Anchor-York Division, Inc.  
 Waterloo, Iowa Heating & Cooling Supply Co.

**NU-WALL MFG. CO. MILWAUKEE, WIS.**

Amarillo, Tex. Crowe-Galde Cement Co.  
 Arkansas City, Kan. Arkansas City Lumber Co.  
 Austin, Tex. Comal Lumber Co.  
 Battle Creek, Mich. F. J. Skidmore & Son, Inc.  
 Brooklyn, N. Y. John J. Doody & Son, Inc.  
 Cedar Rapids, Iowa Builders Material Co.  
 Dallas, Tex. Blue Diamond Co.  
 Detroit, Mich. Friendship Plaster Supplies, Inc.  
 Elmira, N. Y. Harris McHenry & Baker Co.  
 Fort Dodge, Iowa Webster County Lumber Store  
 Fort Worth, Tex. Cain Builders Supply Co.  
 Fresno, Cal. Stewart & Wess, Inc.  
 Grand Rapids, Minn. King Lumber Co.  
 Hartford, Conn. Jackson Segaine, Inc.  
 Houston, Tex. W. L. Macatee & Son, Inc.  
 Kansas City, Mo. Nell-Welby Lumber Co.  
 Lafayette, Ind. Owen Dandham Lumber Co.  
 Legansport, Ind. Loner's Lumber Co.  
 Lubbock, Tex. Hard Material Co.  
 Mt. Vernon, N. Y. Sun Lumber Co.  
 Oakland, Cal. Peerless Stecco Co.  
 Oklahoma City, Okla. Hutchison Lumber Co.  
 Parsons, Kan. Home Lumber Co.  
 Pittsburgh, Pa. Houston-Starr Co.  
 Pittsfield, Ill. Pike County Coal & Lumber Co.  
 Portland, Ore. Pacific Building Materials Co.  
 Salt Lake City, Utah Hansen Lime & Stecco Co.  
 San Antonio, Tex. Lynwood Brick & Tile Co.  
 Sandusky, Ohio Geo. C. Matthes Coal & Supply Co.  
 Seattle, Wash. Geo. Calbraith & Co.  
 Stillwater, Minn. Central Lumber Co.  
 Topeka, Kan. Heck Lumber Co.  
 Wheaton, Ill. F. E. Wheaton Co.  
 Winona, Minn. Botsford Lumber Co.  
 Youngstown, Ohio Youngstown Building Material & Fuel Co.

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Albany, Ga. Joe Brashears Steel, Inc.  
 Albuquerque, N. M. Rio Grande Steel Prods. Co.  
 Amarillo, Tex. Crowe-Galde Cement Co.  
 Andalusia, Ala. Covington Building Supply Co.  
 Anniston, Ala. LaGrave Concrete Block Co.  
 Athens, Ga. Bedgood Coal & Lumber Co.  
 Atlanta, Ga. Rosenfield Steel Co.; Southern GF Co., Inc.  
 Austin, Tex. Builders Specialty Co. of Austin  
 Charlotte, N. C. R. J. Lock Steel Products  
 Chattanooga, Tenn. Tennessee Building Specialties Corp.  
 Chicago, Ill. Associated Builders Prods. Co.; Johnston Iron Works, Inc.  
 Cleveland, Ohio Ancher Building Specialty Co.; Day Fabricating Co.; Roseman Structural Iron Co.; St. Clair Builders Supply Co.  
 Columbus, Ga. Jordan Supply Co.  
 Columbus, Miss. Columbus Glass Co.  
 Columbus, Ohio Columbus Pipe & Equipment Co.  
 Dallas, Tex. Samsel A. Ellsberry Co.  
 Dayton, Ohio Israel Metal Builders Supplies  
 Decatur, Ga. Atlas Corp.  
 Denver, Colo. Associated Distributors  
 Dighton, Ala. Spelgner Concrete Block Co.  
 Evansville, Ind. Lossing Wholesale, Inc.  
 Gadsden, Ala. Copeland Glass Co.  
 Hammond, Ind. Standard Equipment & Supply Co.  
 Hattiesburg, Miss. Builders Supply Co.  
 Houston, Tex. Bole Building Material Co.  
 Indianapolis, Ind. Barrison & Clarke, Inc.  
 Jackson, Miss. Mississippi Metal Products, Inc.  
 Jacksonville, Fla. George P. Coyie & Sons  
 Kansas City, Mo. Midwest Builders Supply, Inc.  
 Laurel, Miss. Laurel Paint & Glass Co.  
 Louisville, Ky. Wholesale Service Co.  
 Macon, Ga. Bibb Steel & Supply Co.  
 Memphis, Tenn. Clark & Fay, Inc.  
 Meridian, Miss. Kimbrell-Ruffer Lumber Co.  
 Midland, Tex. American Window Co.  
 Mobile, Ala. Underwood Builders Supply Co.  
 Montgomery, Ala. Southern Sash of Montgomery, Inc.  
 New York, N. Y. Williams & Williams Products Corp.  
 Roanoke, Va. Eldridge Guffind, Inc.  
 Savannah, Ga. Savannah Iron & Wire Works  
 Sheffield, Ala. Southern Sash of Sheffield  
 Shively, Ky. Home Supply Co.  
 Spokane, Wash. Layrite Building Materials  
 Tampa, Fla. Booker & Co.  
 Tucson, Ariz. Haskin Wholesale Co.  
 Tulsa, Okla. Murray Womble Co.  
 Waycross, Ga. Southeastern Brick Co.

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Adrian, Mich. Denbar Barton  
 Ashtabula, Ohio Arthur Louis Supply Co.  
 Aurora, Ill. Donald L. Glossop  
 Bala, Cynwyd, Pa. Perfection Dist. Co.  
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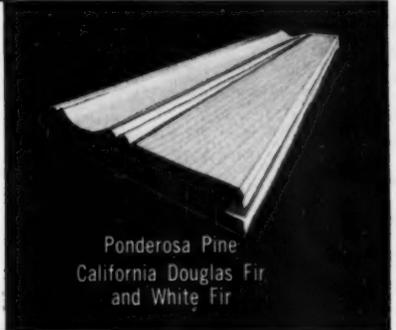
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top quality  
wood products



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and Hemlock



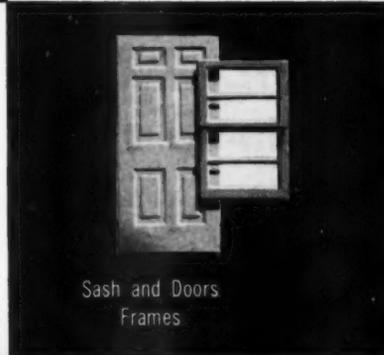
Southern Pine  
and Hardwoods



Ponderosa Pine  
California Douglas Fir  
and White Fir



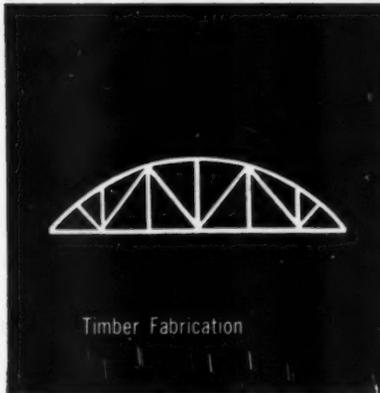
Oak Flooring



Sash and Doors  
Frames



Kitchen Cabinets  
Factory Products



Timber Fabrication



Treated Wood Products  
Posts, Poles & Piling



Plywood and  
L&B Flake Board

# The Long-Bell Lumber Company

Established 1875 — Kansas City 6, Mo.

DIVISIONAL SALES OFFICES

EASTERN DIVISION — KANSAS CITY, MO.

WESTERN DIVISION — LONGVIEW, WASH.

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Baldwin, L. I., N. Y.  
 Dodge-Taylor  
 Baltimore, Md.  
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 Engineering Co.  
 Beaverton, Ore.  
 Northwest Furnace  
 Supply  
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 Bassett Heating Co.  
 Buffalo, N. Y.  
 Perfection Heating Co.  
 Casper, Wyo.  
 Paneratz Co.  
 Cedar Rapids, Iowa  
 Globe Machinery &  
 Supply Co.  
 Chambersburg, Pa.  
 Vernon T. Harmon  
 Charlotte, N. C.  
 Carolina Sheet Metal  
 Chicago, Ill.  
 Mechanical Home System  
 Inc.  
 Cincinnati, Ohio  
 Perfection Heating  
 Corp.  
 Cleveland, Ohio  
 Decker Reichert Steel Co.  
 Clinton, Mich.  
 Clinton Heating Service  
 Coldwater, Mich.  
 Southern Michigan  
 Heating Supply  
 Columbus, Ga.  
 Spener Equipment Co.  
 Columbus, Ohio  
 Columbus Air  
 Conditioning Co.  
 Des Moines, Iowa  
 Globe Machinery &  
 Supply Co.  
 Detroit, Mich.  
 Semmler Wholesale  
 Supply  
 East Moline, Ill.  
 Johnson Sheet Metal  
 Erie, Pa.  
 Crosby Co.  
 Evansville, Ind.  
 U. S. Sheet Metal &  
 Refrigeration  
 Fort Wayne, Ind.  
 Fort Wayne Air  
 Conditioning  
 Franklin Square, N. Y.  
 H. L. Weskerle  
 Freeport, Ohio  
 A. C. Johnson  
 Gary, Ind.  
 C. W. Berkelmer Co.  
 Grand Rapids, Mich.  
 Henricks Supply Co.  
 Hackensack, N. J.  
 Battle Cloud Sheet  
 Metal  
 Houston, Tex.  
 J. B. Hobbs Co.  
 Hyattsville, Md.  
 Boswell-Burke Co.  
 Jamaica Plain, Mass.  
 Leon Brothers  
 Kansas City, Mo.  
 The National Corp.  
 Lansdowns, Pa.  
 John T. Atkins  
 Lansing, Mich.  
 Hager-Fox Heating &  
 Refrigeration

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 Denver, Colo.  
 Brick, Inc.  
 Fort Worth, Tex.  
 Armo Brick Co.  
 Halifax, N. S., Canada  
 L. E. Shaw, Ltd.  
 Johnson City, Tenn.  
 General Shale Products  
 Corp.  
 Kansas City, Mo.  
 United Brick & Tile Co.  
 Mason City, Iowa  
 Mason City Brick & Tile  
 Co.  
 New York, N. Y.  
 General Builders Supply  
 Corp.  
 Oklahoma City, Okla.  
 United Brick & Tile Co.

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 Baltimore, Md.  
 Dealers Warehouse &  
 Supply  
 Birmingham, Ala.  
 Birmingham Sash &  
 Door Co.

Chicago, Cal.  
 Diamond Match Co.  
 Cleveland, Ohio  
 Industrial Wholesale  
 Lumber  
 Coffeyville, Kan.  
 Long-Bell Lumber Co.  
 Columbus, Ga.  
 Southern Dwr. Co.  
 Columbus, Ohio  
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 Nuttig Sash & Door Co.  
 Denver, Colo.  
 Denver Wood Prods. Co.  
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 W. J. & E. H. Young  
 El Paso, Tex.  
 Booker-Walker Supply  
 Co.  
 Enid, Okla.  
 Long-Bell Lumber Co.  
 Fort Smith, Ark.  
 Long-Bell Lumber Co.  
 Midwest Lumber &  
 Supply Co.  
 Fort Wayne, Ind.  
 A. Rothfels & Sons  
 Fort Worth, Tex.  
 Texas Sash & Door Co.  
 Gloucester City, N. J.  
 J. R. Quigley Co.  
 Grand Rapids, Mich.  
 Standard Supply Co.;  
 Thelen Lumber Co.

Northampton, Mass.  
 A. W. Hastings & Co.,  
 Inc.  
 Norwood, Ohio  
 RW Wholesale Dist.,  
 Inc.  
 Oklahoma City, Okla.  
 Long-Bell Lumber Co.;  
 Oklahoma Builders  
 Supply  
 Oshkosh, Wis.  
 The Radford Co.  
 Ozone Park, L. I., N. Y.  
 Hussey-Williams Co.,  
 Inc.  
 Peoria, Ill.  
 Alexander Warehouse &  
 Sales  
 Philadelphia, Pa.  
 J. R. Quigley  
 Phoenix, Ariz.  
 Foxworth Galbraith  
 Lumber; Victor H.  
 Nelson Builders Hdqrs.,  
 Co.  
 Pittsburgh, Pa.  
 Iron City Sash & Door  
 Co.  
 Ponca City, Okla.  
 Long-Bell Lumber Co.  
 Portland, Ore.  
 McCracken-Ripley  
 Providence, R. I.  
 A. W. Hastings & Co.,  
 Inc.  
 Roanoke, Va.  
 Nuttig Sash & Door  
 Royal Oak, Mich.  
 Royal Oak Wholesale Co.

**PRYNE AND CO., INC.  
 POMONA, CALIF.**

Albuquerque, N. M.  
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 Son  
 Atlanta, Ga.  
 Glenn H. Arnold  
 Baltimore, Md.  
 Francis G. Linthicum  
 Baton Rouge, La.  
 Gregory-Salisbury & Co.  
 Bronx, N. Y.  
 Albert Eisen  
 Calgary, Alta., Canada  
 Cochrane-Stephenson  
 (Western) Ltd.  
 Chicago, Ill.  
 Donald J. Harper;  
 Ralph A. Maynard  
 Clermont, Fla.  
 Preston E. Maynard  
 Dallas, Tex.  
 Burrus & Matthews  
 Denver, Colo.  
 Gaer, Florence &  
 Associates  
 Edmonton, Alta., Canada  
 Cochrane-Stephenson  
 (Western) Ltd.  
 Highland Park, Mich.  
 Francis B. Cambell  
 Houston, Tex.  
 Burrus & Matthews  
 Jackson, Miss.  
 Gregory-Salisbury & Co.  
 Kansas City, Mo.  
 William L. Lovell  
 Kenmore, N. Y.  
 Walter L. & Richard  
 Hoffman  
 Little Rock, Ark.  
 Gregory-Salisbury & Co.  
 Los Angeles, Cal.  
 Pryne and Co., Inc.  
 Memphis, Tenn.  
 Gregory-Salisbury & Co.

**PRECISION**  
 folding stairways  
 are available to established lum-  
 ber dealers from the warehouse  
 stocks of the following wholesale  
 distributors.

Harrisburg, Pa.  
 J. R. Quigley  
 Helena, Mont.  
 Builders Supply Co.  
 Houston, Tex.  
 Houston Sash & Door  
 Co.  
 Indianapolis, Ind.  
 Burnet-Binford Lumber  
 Co.  
 Jacksonville, Fla.  
 Nuttig Sash & Door Co.  
 Joliet, Ill.  
 Alexander Warehouse &  
 Sales  
 Kansas City, Mo.  
 American Sash & Door  
 Co.; Broadway Supply  
 Co.; Long-Bell Lumber  
 Co.  
 Knoxville, Tenn.  
 Nuttig Sash & Door Co.  
 Lancaster, Pa.  
 J. R. Quigley  
 London, Tenn.  
 Nuttig Sash & Door Co.  
 Louisville, Ky.  
 Nuttig Sash & Door Co.  
 Lubbock, Tex.  
 Forrest Lumber Co.;  
 Navajo Supply  
 Memphis, Tenn.  
 Memphis Sash & Door  
 Co.  
 Miami, Fla.  
 Nuttig Sash & Door Co.  
 Minot, N. D.  
 Waller Specialty Co.  
 Nashville, Tenn.  
 Reasley & Sons Co.;  
 Clark Hdqrs. Co.; Craig-  
 Morris Glass Co.; Harris-  
 Weber Sash & Door;  
 Nuttig Sash & Door;  
 McWhorter-Weaver &  
 Co.; Nashville Sash &  
 Door Co.; St. Bernard  
 Coal Co.; Tennessee  
 Glass Co.  
 Newark, N. J.  
 Whittier Lumber &  
 Millwork  
 New Orleans, La.  
 Leo Cafero Co.;  
 Woodward-Wight Co.

Saginaw, Mich.  
 Saginaw Sash & Door  
 Co.  
 St. Louis, Mo.  
 Nuttig Sash & Door Co.  
 Salt Lake City, Utah  
 Morrison-Merrill Co.  
 San Diego, Cal.  
 Wilson F. Clark Co.;  
 Syd Hall Co.  
 San Francisco, Cal.  
 Di Christina & Son  
 San Jose, Cal.  
 Theony Bros.  
 Saranac Lake, N. Y.  
 D. Cohen & Sons  
 Savage, Minn.  
 Clark-Warmington  
 Assoc.  
 Sea Breeze, N. Y.  
 Mack Millwork Co.  
 Seattle, Wash.  
 Modern Materials Co.  
 Shreveport, La.  
 Victoria Sash & Door Co.  
 Somerville, Mass.  
 A. W. Hastings & Co.,  
 Inc.  
 Spokane, Wash.  
 Standard Lumber Co.  
 Springfield, Mo.  
 Southern Supply Co.  
 Tacoma, Wash.  
 A. N. Gelger  
 Toledo, Ohio  
 Mayfair Lumber Co.  
 Topeka, Kan.  
 Long-Bell Lumber Co.  
 Tucson, Ariz.  
 Federal Supply Co.  
 Tulsa, Okla.  
 Long-Bell Lumber Co.;  
 Southern Mill & Mfg.  
 Co.  
 Urbana, Ill.  
 Alexander Warehouse &  
 Sales  
 Utica, N. Y.  
 Chas. C. Kellag &  
 Sons; Macner Sales  
 Washington, D. C.  
 Barber & Ross Co.;  
 Lamar & Wallace  
 Wichita, Kan.  
 Long-Bell Lumber Co.

**R.O.W. SALES CO.  
 FERNDALE, MICH.**

Amarillo, Tex.  
 Ritter Supply Co.  
 Arlington, Va.  
 Dealers Warehouse  
 Supply Co., Inc.  
 Baltimore, Md.  
 Dealers Warehouse  
 Supply Co., Inc.  
 Billings, Mont.  
 Western Builders  
 Binghamton, N. Y.  
 A. Roberson & Son, Inc.  
 Buffalo, N. Y.  
 Whittier-Jackson Co.,  
 Inc.  
 Boise, Idaho  
 Boise Sash & Door, Inc.  
 Bradenton, Fla.  
 V. E. Anderson Mfg.  
 Co., Inc.  
 Calgary, Alberta, Canada  
 Calgary Sash & Door  
 Co.; Cashing Mills, Ltd.



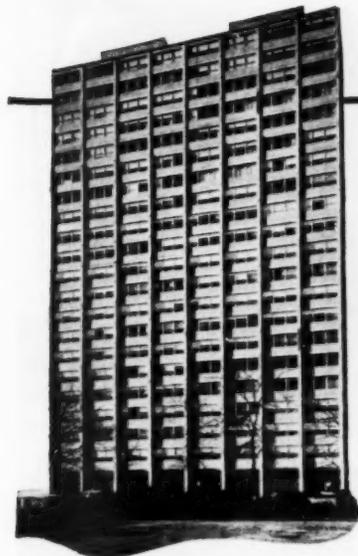
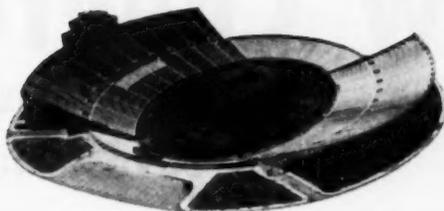
R-O-W Windows are  
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 write the nearest authorized  
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 Cranbrook, B. C., Canada  
 Cranbrook Sash & Door  
 Co.  
 Dallas, Tex.  
 Lambermen's Sash &  
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 Denver, Colo.  
 Lumber Dealers, Inc.  
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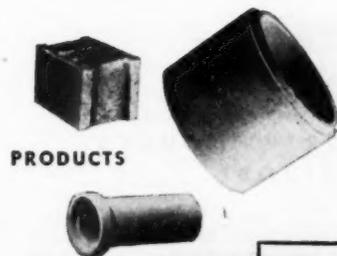
Duraplastic is the original air-entraining portland cement. It requires less mixing water for a given slump. Too, it minimizes water gain and segregation. This gives increased resistance to effects of freezing-thawing weather, and in paving helps avert the scaling action of de-icing salts.

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\*"Duraplastic" is the registered trade mark of the air-entraining portland cement manufactured by Universal Atlas Cement Company.

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 Columbus, Ohio Ben Rowland  
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**More People are Building with**



- WOOD CASEMENTS
- MULTI-PURPOSE WINDOWS
- ROLSCREENS
- WOOD FOLDING DOORS
- VENETIAN BLINDS

Manufactured by ROLSCREEN COMPANY PELLA, IOWA

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 Oklahoma City, Okla. Bissell Builders Supply Co.  
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 Portland, Me. M. A. Free, Inc.  
 Portland, Ore. Young & McClain, Inc.  
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 Quincy, Ill. D. H. Reese Co.  
 Richmond, Va. Crawford Door Sales Co. of Richmond  
 Roanoke, Va. Crawford Door Sales Co.

Springfield, Ill. Geo. S. Grimmer & Co.  
 Springfield, Mo. Kennedy Brick & Steel  
 Syracuse, N. Y. Pella Prods. Co.  
 Tacoma, Wash. Roy V. Stratton, Inc.  
 Toledo, Ohio Don J. Vollmayer  
 Topeka, Kan. Ray Anderson Co., Inc.  
 Tulsa, Okla. Bissell Builders Supply Co.  
 Valley Stream, L. I., N. Y. Roltscreen Co. of N. Y.  
 Washington, D. C. Roltscreen Co.  
 Washington, Pa. G. Glenn Miller  
 Waterloo, Iowa Pella Products Co.  
 West Hartford, Conn. Laurence H. Smith, Inc.  
 Wichita, Falls, Tex. Wichita Glass & Mirror Co.  
 Wilmington, Del. Building Equipment Co.  
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 Youngstown, Ohio Kitchen Cabinet Sales Co.  
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**SALEM, ORE.**

**Retail Outlet**

Salem, Ore. Sharp's Mfg. Co. (Lloyd Crowley)

**Sheffield OVERHEAD DOOR**

sold only by lumber and building material dealers (see full-page ad this issue)

**REVOLUTIONARY NEW SONO AIRDUCT-X.P. FIBRE DUCT**

See our "Tell All" ad-Page 259  
**SONOCO PRODUCTS CO., HARTSVILLE, S. C.**

Ft. Wayne, Ind. Old Fort Supply Corp.  
 Grand Rapids, Mich. Grand Ferrase Co.  
 Indianapolis, Ind. Indiana Distributing Co.  
 Jamestown, N. Y. Bryant-McCoy  
 Kansas City, Mo. Carter-Waters Corp.  
 Kennebec, Wash. Inland Co.  
 Lansing, Mich. Contractors Supply Co.  
 Lincoln, Neb. Paramount Supply Co.  
 Little Rock, Ark. Darragh Co.  
 Louisville, Ky. Bryant-Tinsley Co.  
 Marion, Ohio Millard Hunt Co.

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 Syracuse, N. Y. Paragon Supply Co.  
 Tampa, Fla. Florida Steel Prods., Inc.  
 Toledo, Ohio Throm Supplies, Inc.; Central Supply Co.  
 Utica, N. Y. Hammer Supply Co.  
 Vancouver, B. C., Canada Empire Brass Mfg. Co., Ltd.  
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 Wichita, Kan. Metals & Materials Co.  
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*Better Hardware thru Better Design*

**STERLING HARDWARE MFG. CO. CHICAGO 18, ILLINOIS, U. S. A.**

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 Garden City, Kan. Jim Wharton  
 Honolulu, Hawaii B. F. Schoen, Ltd.  
 Jacksonville, Fla. Jack H. Blevins  
 Kansas City, Mo. Carl L. Bailey; Stan Schilling  
 Ruxton, Md. Fred A. Levering  
 St. Louis, Mo. Sam Black  
 San Francisco, Cal. Willis R. Lynch  
 Seattle, Wash. Richard B. Campbell  
 Tampa, Fla. Richard F. Puls  
 Toronto, Canada Gordon G. Brown & Co.  
 Waco, Tex. Ken Berning

Beginning on page 497 you will find an Alphabetical List of Brand Names of Products and Equipment advertised in this Catalog Directory. The manufacturer's name appears after each brand name. This list will help you locate manufacturers of products that you know by their trade names, rather than names of the concerns that produce them.

To Sell...

BETTER QUALITY

# OVERHEAD GARAGE DOORS

AT A LARGER PROFIT!

GET THE STORY OF

# GENERAL OVERHEAD DOORS

## Complete Line Of RESIDENTIAL GARAGE DOORS

- ★ Four and Five Section Styles
- ★ Two and Four Panel Styles
- ★ One-Piece Styles

## INDUSTRIAL & COMMERCIAL DOORS

All sizes and styles

## ONE-PIECE DOOR HARDWARE

sold separately

WRITE FOR CATALOGS AND PRICE LISTS

**GENERAL DOOR MFG. CO.**

1736 N. SECOND ST.

MILWAUKEE, WIS.

Save Time and Money . . . Avoid Mistakes . . . Use

# SIMPLIFIED CARPENTRY ESTIMATING

HERE IS EVERYTHING YOU NEED to know to "take off" a bill of materials from set of plans and specifications for a frame house. Saves you time figuring jobs, protects you against oversights or mistakes that waste materials and cost money. Nothing complicated—just use simple arithmetic to do house carpentry estimating with this easy-to-use ready reference handbook.

**CONTENTS:** Estimating Fundamentals. Foundation Material. Framing. Exterior Finish. Hardware. Building Information. Estimating Short Cuts. Labor Hours per Unit of Work. Carpentry Mensuration. Mathematical Reference Tables. Stair Estimating. How to Plan a House.

1950. 5th Ed. 304 p. 123 illus. 60 tables. 5x8. \$3.75



### FREE EXAMINATION COUPON

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Please send me a copy of *Simplified Carpentry Estimating*. If after 5 days trial I am not fully satisfied, I'll return it and owe nothing. Otherwise I'll keep the book and send \$3.75 plus a few cents for postage and handling in full payment.

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Street

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**SAVE.** Send \$3.75 with you. order. We pay postage, handling. Same trial terms.



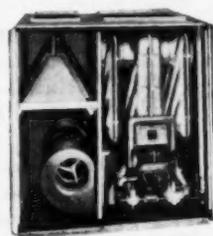
Low fuel bills with

# NIAGARA

*Activated Heat* FURNACES

make Niagara-equipped homes easier to sell

What home-buyers say about the homes you build depends to a considerable degree on their experience with the heating systems you install. It pays to install Niagara furnaces because Niagara furnaces are widely acclaimed by owners proud of their low fuel bills, and are prestige-builders for the heating contractor and the builder.



Model 50 Deluxe. Shown at right with front panels removed



Oil-Gas Convertible

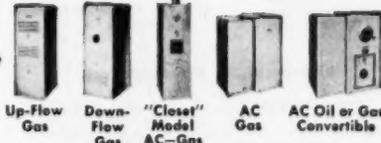
Niagara furnaces deliver heat in its most pleasing, comfortable form — warm air in gentle motion . . . ACTIVATED heat . . . LIVE heat!

Long famous for fine performance and low operating cost are Niagara gas-fired furnaces with the exclusive Niagara-made cast-iron heat exchanger, illustrated above. These heat exchangers are available only in Niagara Series 50 furnaces. Especially valued by those who want the very finest are the Series 50 Deluxe models which are equipped with a 3-speed direct-drive blower for luxurious, zephyr-like air circulation.

Included in the extensive Niagara line are furnaces with steel heat exchangers, for basement and utility room installations — and automatic oil-gas convertible furnaces (for the fuel available now, and readily convertible at any later time, with a Niagara burner for the other fuel).

**SUMMER COOLING, TOO** — Available for summer comfort in hot, humid weather, are Niagara cooling units designed to circulate dehumidified, refrigerated air through the ducts of forced-air heating systems.

There's a Niagara for every home-heating requirement.



**NIAGARA FURNACE DIVISION** The Forest City Foundries Co.  
2500 WEST 27th STREET • CLEVELAND 13, OHIO

Send me information on Niagara furnaces burning ( ) Oil; ( ) Gas; for houses with basement ( ) ; without ( ) basement; and ( ) details of Niagara Cooling Unit.

NAME  AB

ADDRESS

P.O.  STATE

# AMERICAN-Standard SUNBEAM WINTER and SUMMER AIR CONDITIONERS



• A complete line of warm air heating equipment and summer air conditioners covering every residential application.

Contact our District Representatives or see your local Sunbeam Distributor or Dealer.

**SUNBEAM AIR CONDITIONER DIVISION**  
AMERICAN RADIATOR & STANDARD SANITARY CORPORATION  
BESSEMER BUILDING, PITTSBURGH 22, PA.

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Kansas City, Mo. R. L. Herroo	Roslyn, Pa. R. D. Kishbaach
	Woodville, Wash. H. N. Spinks

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Buffalo, N. Y. Raymond Schulze	Roanoke, Va. McIlhenny Equipment Co., Inc.
Casper, Wyo. Casper Concrete	Rockford, Ill. Wisor, Inc.
Dallas, Tex. North Texas Equipment & Supply Co.	Shreveport, La. F & H Equipment Co. (H. S. Finko Co.)
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King of Prussia, Pa. John A. Crockett, Inc.	Topeka, Kan. Topeka Builders Supply
Madison, Wis. Prime-Best, Inc.	Tulsa, Okla. J. M. Cromwell
Nash City, Iowa Andrews Concrete Prod. & Supply Co.	Utica, N. Y. Robert B. Pratt
Memphis, Tenn. H. S. Finko Co.	Waskegan, Ill. Economy Hdwe. & Contrs. Supplies
Midland, Mich. Arthur J. Fisher	Wichita, Kan. Phillips & Easton
Milwaukee, Wis. Prime-Best, Inc.	Winston-Salem, N. C. Montage & Co.
North Chicago, Ill. Lake County Ready Mix Co.	

## Distributors & Manufacturers

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Dearborn, Mich. Herb Colp	St. Paul, Minn. Ritco Laminated Products, Inc.
Denver, Colo. Jones-Corby Co.	Salt Lake City, Utah Contractors Equipment & Supply Co.
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New Britain, Conn. Arthur H. Harris	Spokane, Wash. Concrete Forms, Inc.
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Birmingham, Ala.	Newark, N. J.
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Cleveland, Ohio	Phoenix, Ariz.
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Columbus, Ohio	Portage, Wis.
Concord, Calif.	Portland, Me.
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Indianapolis, Ind.	San Francisco, Cal.
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Covina, Cal. Dallas, Tex.	Oakville, Ontario, Canada Philadelphia, Pa.
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Kirkwood, Mo. Los Angeles, Cal.	Richmond, Va. Syracuse, N. Y.
Lubbock, Tex.	West Roxbury, Mass. Woodside, L. I., N. Y.

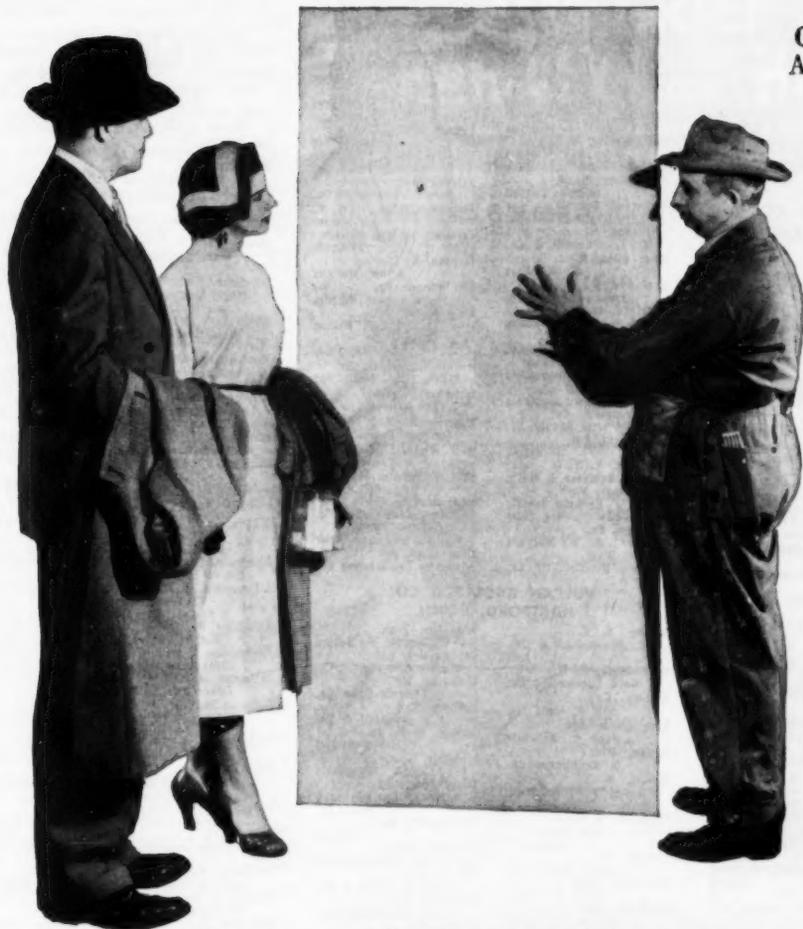
## VAN-PACKER CORP. CHICAGO, ILLINOIS

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Mason City, Iowa Nichols Wire & Aluminum Co.	Memphis, Tenn. Fisher, Lime & Cement Co.
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Portland, Ore. Merzer Steel Company, Inc.	Raleigh, N. C. The Standard Supply Co., Inc.
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Continued next page

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ANNIVERSARY



**"I use only General Doors...  
they're better for you, better for me"**

You build permanent customer satisfaction and save yourself a lot of grief when you install General Doors. You pocket extra savings for yourself—end costly call-backs and troublesome complaints.

General Doors are  
... easier to hang  
... easier to finish  
... easier on the eye

Quality is always cheaper in the end—it has made General the largest producer of flush doors.

*ALL General Doors are HOT Plate Pressed*

**GENERAL**  
**Gibraltar**  
**KENTUCKY**  
**Colonel**

General Plywood Corporation  
1904-1954  
50 years in Hardwood Plywood  
Louisville 12, Kentucky

*Flush Doors*



The Doors that pass  
the "Elephant Test"

**VAN PACKER, cont'd.**

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 Virginia, Minn. L. P. Jobbers, Inc.  
 Washington, D. C. Lyon, Conklin & Co., Inc.  
 Waterloo, Iowa Waterloo Heating Supply Co.  
 Wausau, Wis. Wausau Supply Co.



**VENT-A-HOOD CO.  
 DALLAS, TEXAS**

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 Atlanta, Ga. Vent-A-Hood of Georgia  
 Beaumont, Tex. Bishop Co.  
 Charlotte, N. C. Twin States Distributing Co.  
 Chicago, Ill. Vent-A-Hood of Illinois  
 Denver, Colo. Vent-A-Hood of Denver  
 Fort Worth, Tex. B. H. Short Co.  
 Houston, Tex. Vent-A-Hood of Texas  
 Kansas City, Mo. Zahner Mfg. Co.  
 Little Rock, Ark. Brandon Co.

Los Angeles, Cal. Southwest Vent-A-Hood Co.  
 Mamaroneck, N. Y. Vent-A-Hood Atlantic  
 Memphis, Tenn. Southeastern Distributors  
 New Orleans, La. Vent-A-Hood of New Orleans  
 Omaha, Neb. Vent-A-Hood of Omaha  
 Philadelphia, Pa. Vent-A-Hood Eastern  
 Phoenix, Ariz. Vent-A-Hood of Arizona  
 San Antonio, Tex. Vent-A-Hood of San Antonio  
 Spokane, Wash. United Jobbers  
 Tulsa, Okla. Vent-A-Hood of Tulsa

**VIKON TILE CORP.  
 WASHINGTON, N. J.**

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 Alentown, Pa. Date City Tile Co.  
 Crown Floor Covering; Lehigh Lumber Co.  
 Amarillo, Tex. Western Tile & Supply Co.  
 Anacosta, Mont. Theodore Eck & Sons  
 Atlanta, Ga. Builders Specialties, Inc.  
 Audubon, N. J. R. L. Blitzer  
 Bedford, Ind. Economy Plumbing & Heating  
 Bethlehem, Pa. Bethlehem Floor Covering; Giant Floor Covering Co.; Ed Kirby; E. P. Kocher  
 Binghamton, N. Y. J. R. Garrett  
 Blairtown, N. J. Redolph Hanke  
 Buffalo, N. Y. G. L. Mitchell  
 Charlottesville, Va. Building Specialties  
 Chattanooga, Tenn. Standard Tile Co.  
 Chevy Chase, Md. Congressional Tile Co.  
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 Clarion, Pa. Rea Wholesale Co.  
 Corinth, N. Y. Clothier Lumber Co.  
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 Denver, Colo. Nath Worsham  
 Des Moines, Iowa Morris Tile Installations  
 Kitcheneers, Inc.  
 Dover, N. J. Park Union Lumber Co.  
 Durham, N. C. Boyce Supply Co.  
 Easton, Pa. Louis M. Ralph & Sons  
 Edmonton, Alberta, Canada M. D. Nuttall  
 Fort Worth, Tex. B & B Tile Co.; Fort Worth Metal Tile Co.  
 Florida, N. Y. Ed. Tarchen  
 Fredericksburg, Va. The Floor Shop  
 Fresno, Cal. Valley Plastic Tile Co.  
 Gettysburg, Pa. Gettysburg Building Supply Co.  
 Hackettstown, N. J. Kraft's Wallpaper  
 Hampton, N. J. Ralph Frazier  
 Hampton, Va. Rickford Tile Co.; Southeastern Tile Co.

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 Hanover, Pa. Pen-Mar Supply Co.  
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 Hartford, Conn. Better Floor Covering  
 Highland, N. Y. George W. Pratt & Son  
 Horseheads, N. Y. Metal Tile Co.  
 Hyattsville, Md. Suburban Kitchens  
 Irvington, N. J. Hall Lineum  
 Jackson, Miss. Kimbro Building Supply  
 Jacksonville, Fla. Pearce Supply Co.  
 Jamaica, L. I., N. Y. Queens Metal Tile Co.  
 Kalamazoo, Mich. Al. Lahey  
 Lancaster, Pa. Cen-Pen Tile Distributing Co.; Constructo Prods. Co.  
 Levittown, N. Y. Robert O'Dea  
 Lubbock, Tex. Tile & Supply Co.  
 Malden, Mass. Wm. Smethurst & Son  
 Millersville, Pa. Joseph Bergstresser  
 Milwaukee, Wis. Louis Troy Inc.  
 Monticello, N. Y. County Distributing Co.  
 Morristown, N. J. Center Carpet; John Stevens Co.  
 Nazareth, Pa. Harry Frantz  
 Neffs, Pa. Laman C. Snyder  
 Newark, N. J. Allied Construction Co.; Tilecraft, Inc.  
 New Brunswick, N. J. Albert Collier & Sons  
 New Orleans, La. Orleans Plumbing Shop.  
 New Rochelle, N. Y. Halber's Lineum Arts  
 New York, N. Y. Dykes Lumber Co.; Well Equipment Co.  
 Nogales, Ariz. Jim Graham  
 North Hollywood, Cal. Coast Metal Tile Co.  
 Oakland, Cal. J. B. Turner & Sons  
 Orlando, Fla. C. C. Johnson  
 Paterson, N. J. Walter Boehme  
 Pensacola, Fla. Jones Floor Covering  
 Philadelphia, Pa. Central Shade & Lineum; Franklin Distributors; Lehigh Floor Covering Co.; Modern Floors; National Floors; Royal Tile Co.

Phoenix, Ariz. Metal Tile Co. of Arizona  
 Pittsburgh, N. J. Regent Paints, Inc.  
 Plainfield, N. J. Toll Brothers  
 Plattsburg, N. Y. Kenneth C. Wood  
 Portland, Ore. Bennett & Williams  
 Poughkeepsie, N. Y. Red Oaks Mill Machine Shop  
 Rapid City, S. D. Wayne Cannon  
 Richmond, Cal. Richmond Tile Co.  
 Richmond, Va. M. T. O'Ferrall & Co.  
 River Edge, N. J. W. Lent  
 Rockaway, N. J. Jackson Lumber Co.  
 Rockland, Mass. Robert St. James  
 Sacramento, Cal. Fischer Tile Co.  
 St. Anne, Ill. R-Rite Cabinet Shop  
 St. Petersburg, Fla. Edward C. Craig  
 San Francisco, Cal. Neill Supply Co.  
 Santa Rosa, Cal. Al Placek  
 Scarsdale, N. Y. Robinson & Malin  
 Schenectady, N. Y. Kenneth Jewett; Petrucci's Rug Store  
 Scranton, Pa. A. W. Marriett  
 Seattle, Wash. Roselle Tile Co.

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 Tamaqua, Pa. Draper & Vost  
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 Toledo, Ohio Rogers Improvement Co.  
 Tompkinsville, S. I., N. Y. Louis Siegler  
 Toronto, Ontario, Canada Tilcraft  
 Trenton, N. J. Arthur Martens  
 Truxtertown, Pa. Owen Bastian  
 Troy, N. Y. Harold Damon  
 Tulsa, Okla. Roy Myers Co.  
 Washington, N. J. Riddle Tile Installations  
 Waterbury, Conn. Connecticut Tile Co.  
 Waverly, N. Y. Springer Cabinet Shop  
 West Hartford, Conn. Shalton & Kenover, Inc.  
 West Springfield, Mass. Bill Potvin  
 Williamsport, Pa. Lundy Construction Co.  
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 Indianapolis, Ind. Reid-Hotcomb Co., Inc.  
 Kansas City, Mo. J. B. Garrity Co.  
 Lakeland, Fla. Waco Scaffolding Co. of Florida  
 Long Island City, N. Y. Bacon-Welworth Corp.  
 Los Angeles, Cal. Waco-May Co.  
 Mankato, Minn. Waco Scaffolding & Supply Co.  
 Memphis, Tenn. Billingsley Floor & Blind Co.  
 Miami, Fla. Waco Scaffolding of Florida  
 Milwaukee, Wis. Waco Scaffolding Co., Inc.  
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 Muskegon, Mich. Lakeshore Machinery & Supply  
 Newark, N. J. Kimmerly Brothers, Inc.

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 Albuquerque, N. M. Rio Grande Steel Products Co., Inc.  
 Allentown, Pa. Herritt Lumber Co.  
 Amityville, L. I., N. Y. Cedar Brook Millwork  
 Arlington, Mass. Metal Window Sales  
 Asheville, N. C. Asheville Industrial Supply  
 Atlanta, Ga. Almac Corp.  
 Augusta, Ga. Pratt-Dudley Builders Supply Co.  
 Aurora, Ill. Garbe Iron Works  
 Austin, Tex. Builders Specialty Co. of Austin  
 Baltimore, Md. Southern Sash & Door  
 Beckley, W. Va. Raleigh Glass & Mirror  
 Belleville, Ill. A. D. McCulley Co.  
 W. L. Mager Supply Co.

New Orleans, La. Waco Scaffolding Co. of New Orleans  
 Oklahoma City, Okla. Wyle-Stewart Machinery Co.  
 Omaha, Neb. Scaffolding Rental & Sales Co.  
 Philadelphia, Pa. Waco Scaffolding Co. of Philadelphia  
 Philadelphia, Pa. Philadelphia  
 Pittsburgh, Pa. Best Equipment Co.  
 Portsmouth, Va. Whittlock Bros.  
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 Sacramento, Cal. Jameo  
 San Antonio, Tex. Texas Steel Scaffolds Co.  
 San Diego, Cal. Construction Tool & Supply  
 San Francisco, Cal. Lawrence Myers & Co.  
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 Buffalo, N. Y. U. S. Heat & Frost Insulating Co.  
 Charleston, W. Va. West Virginia Steel Corp.  
 Cheshire, Conn. E. G. Mackbarth Co.  
 Chicago, Ill. Adolph Kertz Co.  
 Cincinnati, Ohio Tricon Distributors, Inc.  
 Cleveland, Ohio Waco Scaffolding Co.

Clovis, N. M. Home Lumber & Supply Co.  
 Columbia, S. C. Seaber & Aiken  
 Dallas, Tex. Builders Equipment Co.  
 Denver, Colo. Professional Paints, Inc.  
 Detroit, Mich. Scaffolding Ins.  
 Fort Smith, Ark. Sam K. Stone  
 Forty-Fort, Pa. Waco Scaffolding Co.  
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 Chapman, Ala. Chapman Lumber & Supply Co.  
 Charleston, S. C. Concrete Prods., Co.  
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 Chattanooga, Tenn. Hibbler Anderson Co.  
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 Dunn, N. C. Godwin Building Supply Co., Inc.  
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 Evansville, Ind. Lashwood Modern Equip. Co.  
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 Flemington, N. J. Flemington Block & Supply  
 Flint, Mich. Northern Brick & Supply Co.  
 Fort Pierce, Fla. East Coast Lumber & Supply Co.  
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Cinder Block & Material  
Jackson, Miss.  
Mississippi Metal  
Products, Inc.  
Johnstown, Pa.  
Central Contractors  
Supply  
Kalamazoo, Mich.  
Wigginton Builders  
Supply Co.  
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Rhea Lumber Co.  
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Standard Block &  
Supply Co.  
Lemoine, Pa.  
Mason & Norton Co.  
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Madison, Wis.  
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Memphis, Tenn.  
Clark & Fay; Fisher  
Lime & Cement Co.  
Meridian, Miss.  
Mississippi Paint &  
Glass Co.  
Midland, Tex.  
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Southern Building  
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Mount Vernon, Ill.  
Mount Vernon Glass Co.  
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Woodward Wight &  
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Norfolk, Va.  
Construction Supply Corp.  
Oklahoma City, Okla.  
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Supply, Inc.  
Orange, N. J.  
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Products  
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R. Kramholz  
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Hardware Supply Co.  
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Kreil Dist. Co.  
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No installation problems - No maintenance worries  
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**CHALLENGER Series for Doors up to 70 Lbs.**



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Top-Mounted Non-Adjustable. 1 1/4" Headroom. For 3/4" to 1 1/2" thick doors—other than plywood.

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**ALUMINUM Track**  
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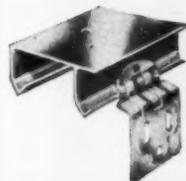
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Convenient, complete Packaged Set, hardware and track, only \$270 list for 2 ft. pocket door - FOB destination!



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**FW-6H HANGER**

on FW-6TO Track

Top-Mounted Non-Adjustable. 2 3/4" Headroom. For 3/4" to 1 1/2" thick doors—other than plywood.



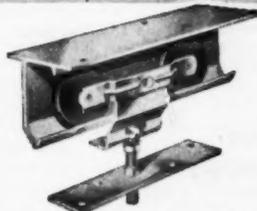
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Side-Mounted, Non-Adjustable. 2 1/16" Headroom. For 3/4" and 7/8" thick plywood doors.

Side-mounted single track FW-6TO also available, as well as Double Tracks for 1 1/2" doors (FW-6DT) and for 1 3/4" doors (FW-6DTL)

**HEAVYWEIGHT for Doors up to 200 Lbs.**



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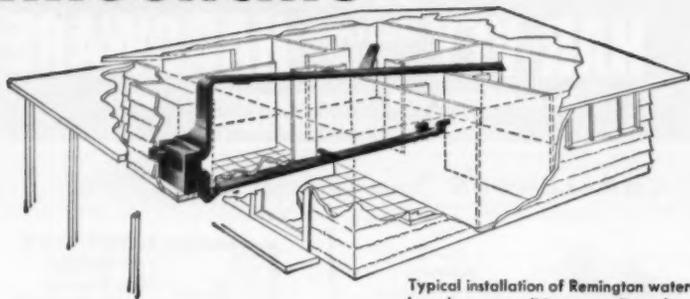
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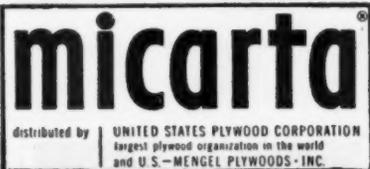
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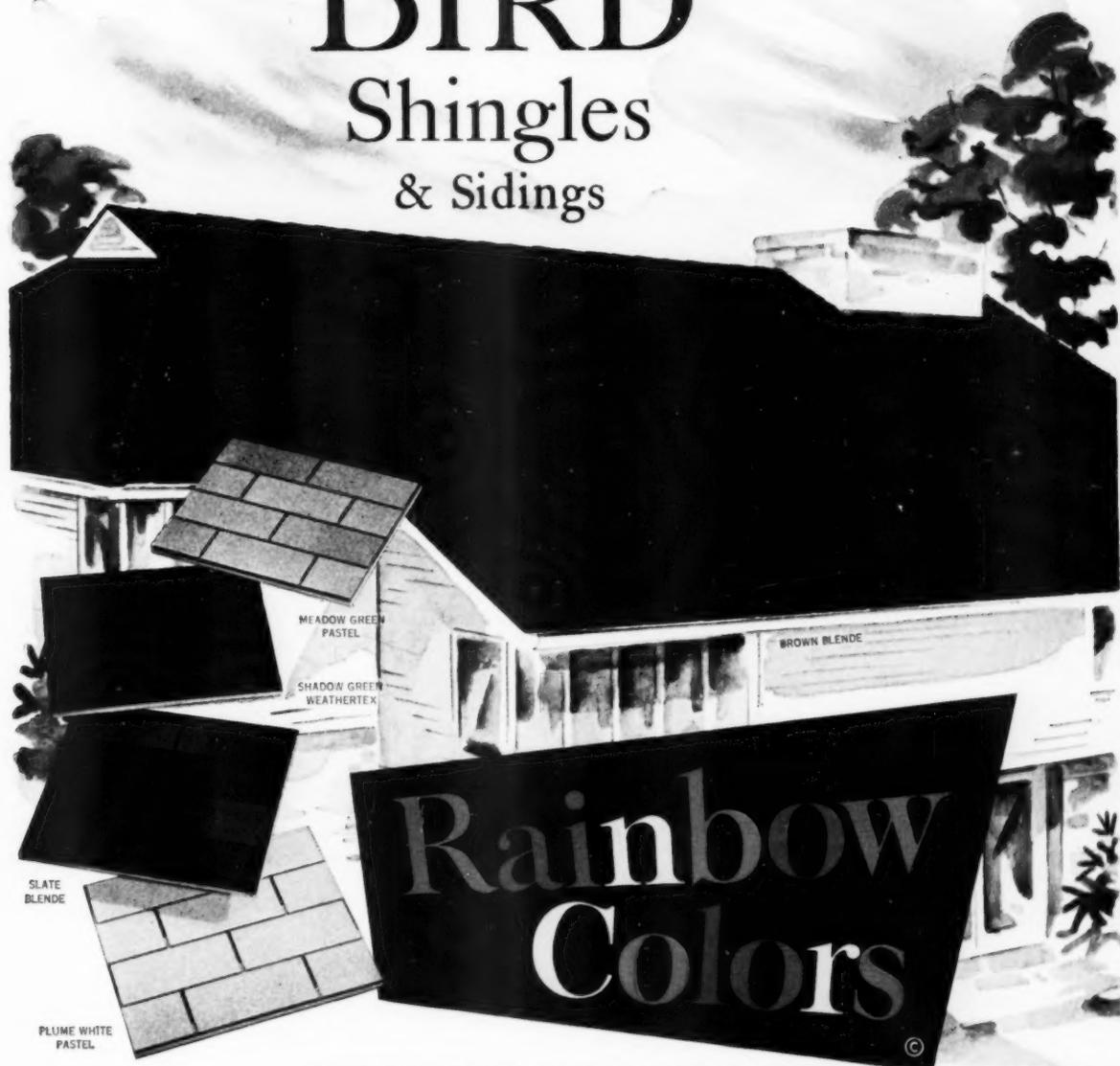
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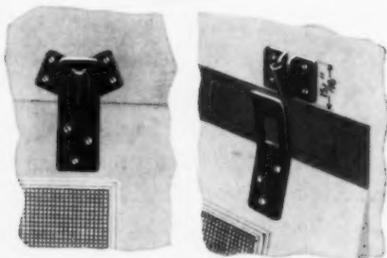
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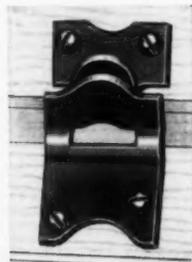
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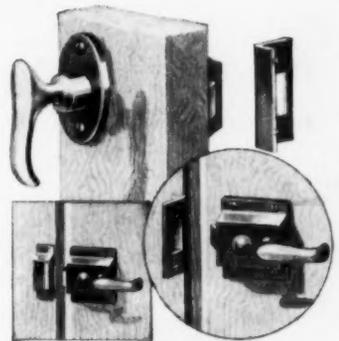
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