

AMERICAN BUILDER

THE WORLD'S GREATEST BUILDING PAPER

APRIL 1953

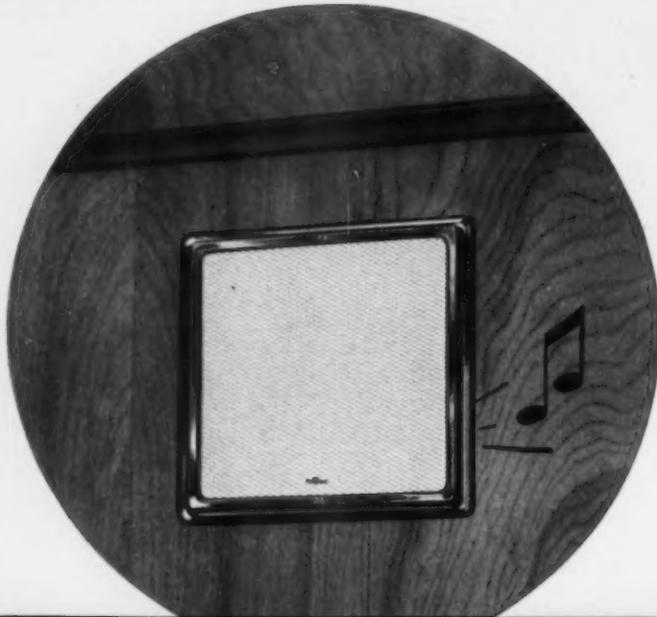
TWO DOLLARS

1953 CATALOG Directory

FOR THE
Light Construction Industry

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- Design and Mechanical Patents are Pending.**

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Every Modern Home Needs The 3 Nutone Products

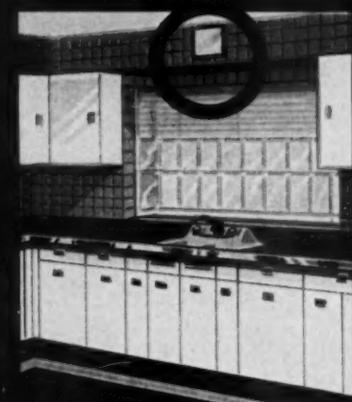
VENTILATING FANS • DOOR CHIMES • ELECTRIC CEILING HEATERS



BEHIND BEDROOM DOOR



IN LIVING ROOM CEILING



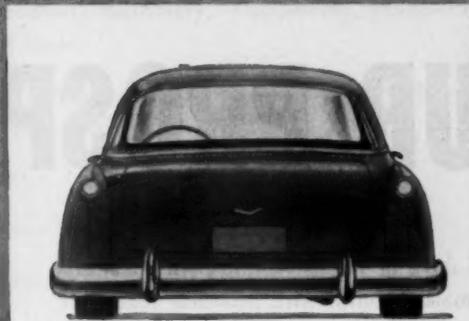
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ABOVE HALL BASEBOARD



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The conventional 8' wide garage door was fine for the narrow cars of the '20s. But today—with cars as wide as 6' 8"—the extra clearance of Strand's 9' wide Door works wonders in protecting thousands of owners against costly fender damage! Installing this wider door gives you not just a talking point—but a feature your owners will appreciate and enjoy—for a long time to come!

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APRIL, 1953

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HEATING

For The Builder in a Hurry!

LESS PIPING • FEWER FITTINGS • TIME SAVING ACCESSORIES

VULCAN RADI-VECTOR*

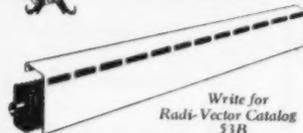
The top-quality residential baseboard radiation for the builder in a hurry who demands speedy installation. Vulcan fin-tube radiation, light in weight, is available in desired lengths . . . (increments of 1") up to 12'; ends threaded or chamfered for welding. Made right to fit right for instant installation . . . no field cutting necessary.

Vulcan's easy-to-fit accessories speed installation. End enclosures, front covers, corner and joining pieces, fit exact dimensions. Assure swift, trouble-free assembly.

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The VULCAN RADIATOR COMPANY

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A Leader in
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\$10. Gets YOU \$29. Worth, PLUS

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APPEAL yet
they cost so
little...



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For Kitchens
and other Rooms

No other exhaust fans have so much utility,
eye-appeal and built-in quality at such little
cost. Is it any wonder "RADIA" is specified
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owners for new construction as well as for
modernization jobs? Use them once and
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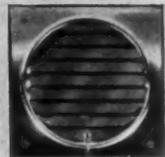
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"Tailored" Fit!

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STYLES
& SIZES



AUTOMATIC CEILING
EXHAUST
FANS. Require mini-
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wall space needed.

WALL Invisi-Grille
EXHAUST FANS.
Automatic bead
chain control.
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With or without
shutters. Automatic
operation by wall
switch.

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and Heaters. Write for full information today.

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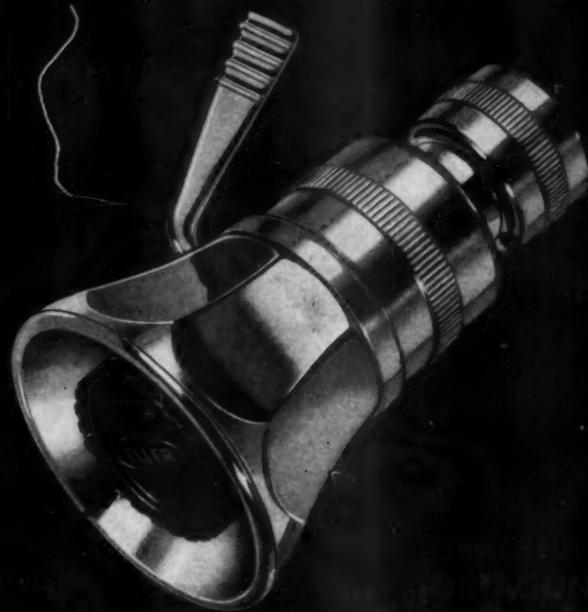
1229 GOEBEL STREET
PITTSBURGH 33, PA.

QUALITY FANS AND HEATERS SINCE 1921

AMERICAN BUILDER

NEW! ELJER

Shower Head



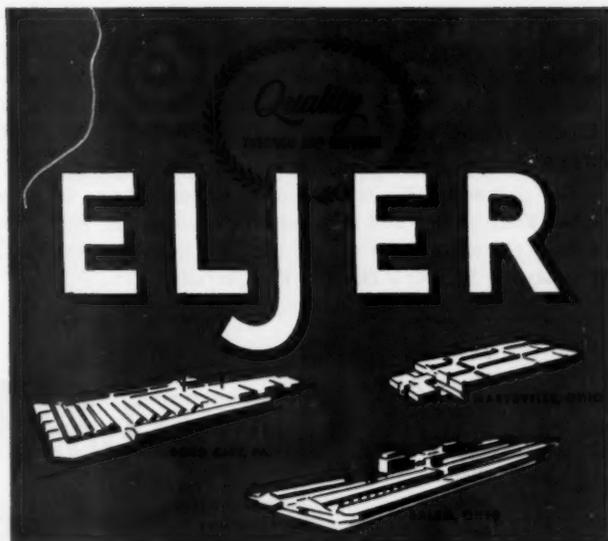
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- 2. Generous spray pattern—not just a circle of water.**
- 3. Operates equally well on low or high pressure.**
- 4. The Vari-Spray is non-clogging, non-liming . . . designed to minimize corrosion.**
- 5. Ball joint operates easily and smoothly.**

Your nearest Eljer Distributor will be pleased to show you how the Vari-Spray operates. See it today or write to Eljer Co., Box 192, Ford City, Pa. for more information.

APRIL 1953



Turn your shavings into SAVINGS



STANLEY ELECTRIC PLANES

When time means money, you'll make a lot more with one of these Stanley Electric Planes. In a *fraction* of the time required by hand you can fit doors, drawers, sashes, screens—do any planing job perfectly . . . right on the job.

High-speed spiral cutters leave smooth finishes, cut with or across the grain without splintering edges. Accurate adjustments can be made to assure precision work. And Stanley Electric Planes are rugged—built to give you years of trouble-free service.

See a Stanley Electric Plane in action on one of your own jobs. Your dealer will be glad to demonstrate. Just give him a call. Or write for Catalog No. 96, Stanley Electric Tools, 400 Myrtle St., New Britain, Connecticut.



On the job
from East
to West . . .
made by men
who make
tools BEST

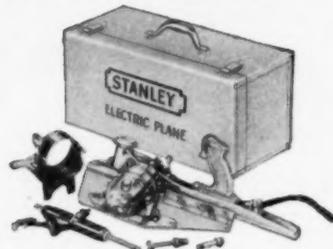
STANLEY

Reg. U.S. Pat. Off.
HARDWARE • TOOLS
ELECTRIC TOOLS
STEEL STRAPPING • STEEL

STANLEY

Electric Tools

AMERICAN BUILDER



No. J4A

VERSATILE, ALL-PURPOSE

$\frac{3}{8}$ h.p., 18,000 r.p.m. Cuts $2\frac{3}{16}$ " wide, straight or bevel. Makes roughing cuts up to $\frac{3}{32}$ " deep. Fence adjusts to 45° . Furnished with bench bracket for use as bench jointer. With grinding attachment, plane sharpens own cutters. Metal carrying case.



No. J38

INSTANT CHIP DISPOSAL

$\frac{1}{2}$ h.p., 20,000 r.p.m. Chips cannot lodge under shoe and mar finished surface. Cuts up to $1\frac{3}{4}$ " wide. Adjusts for bevel cuts to 45° outboard, 15° inboard. Becomes jointer when mounted in inverted position.



USE AS HINGE BUTT ROUTER

J38 plane motor with GA-197 router base makes door hanging a cinch. Accurate cuts, smooth surfaces assure perfect fits. Adjustable templets available for mortising any size door and jamb.



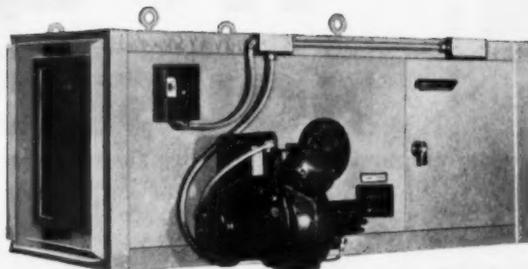
No. J5

MOST POWERFUL ON THE MARKET

1 h.p., 18,000 r.p.m. Heavy duty plane with utmost versatility. Cuts up to $2\frac{1}{2}$ " wide. Adjustable for straight or bevel cuts up to 45° . Depth of cut to $\frac{3}{16}$ ". Bench bracket for use as high speed jointer. Sharpens own cutters with grinding attachment. Metal carrying case.

NEW

SEE OUR
SUSPENDED
FURNACES



JACKSON & CHURCH SUSPENDED WARM AIR FURNACES for small commercial and residential installations of 80,000, 100,000, 110,000 BTU output.

The same space-saving convenience . . . the same dependable heating . . . the same operating economy . . . now available in a range of smaller sizes for homes, shops and smaller commercial installations.

All J-C SUSPENDED UNITS can be located overhead or in out-of-the-way places. Larger units are available in 112,000, 122,000, 145,000, 224,000, 280,000, 392,000, 450,000, 800,000, and 1,000,000 BTU output. Units are UL approved.

Floor models with outputs of 50,000 to 3,800,000 BTU are included in the J-C line. For additional information, see your local J-C supplier or write our Engineering Department.

. . . America's Largest and Most Complete Warm Air Heating Line . . .



J-C

JACKSON & CHURCH CO. SAGINAW, MICHIGAN

Work well done since eighty-one

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OF LIVABILITY IN THIS...**

Hotpoint HOUSE OF THE 50's



Designed in the modern trend, this Hotpoint House of the 50's, built in Syracuse, N. Y. by Joseph A. Cicci, incorporates simplicity, beauty, and extreme livability. It's built for the modern homemaker who demands comfort and convenience at her fingertips—everywhere in the home. No compromise has been made with quality. Named in honor of their luxurious Hotpoint Kitchens and Home Laundries, this "home of the future" exemplifies modern living at its best—electrically.

Progress in the field of home building is of prime importance to Hotpoint. Modern Electric Kitchens and Home Laundries are among the first points of interest to prospective home buyers. Homes so equipped are more salable, and permit modest income families to own the most modern conveniences for only a slight increase in their monthly payments. Hotpoint appliances in homes strengthen the builder's reputation, enhance his prestige, and broaden his market. We believe that the home building industry and Hotpoint can mutually profit through a partnership aimed at better value for our customers.

Join the builders who stand out above the rest because their homes offer *more . . .* with complete Hotpoint All-Electric Kitchens and Home Laundries.

The kitchen in this Cicci-built Hotpoint House of the 50's is the last word in luxury-living. No convenience has been omitted. Equipped with Hotpoint Electric Range, Refrigerator, Dishwasher and garbage Disposall[®], this kitchen would delight any homemaker.

Here is an example of efficient Home Laundry arrangement that provides maximum benefits of allotted floor space. Equipped with Hotpoint's Automatic Washer and Dryer, Rotary Ironer, and handy cabinets, this compact work-center makes laundry a joy instead of a job. The Hotpoint Food Freezer is within a few feet of the kitchen.

Hotpoint

... Pacemaker of Progress!

RANGES • REFRIGERATORS • DISHWASHERS • DISPOSALLS[®] • WATER HEATERS
FOOD FREEZERS • AUTOMATIC WASHERS • CLOTHES DRYERS • ROTARY IRONERS • CABINETS • DEHUMIDIFIERS
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BUILDING MATERIAL DEALERS FROM
COAST TO COAST ARE FEATURING

THOMASON FLUSH DOORS

All Wood. Hollow Core or Solid Core.
For Interior or Exterior Use.

**Produced from the finest quality
of foreign and domestic woods**

As one of the largest producers of plywood in the United States, it is no wonder that the THOMASON PLYWOOD CORPORATION offers a wide choice of beautiful veneers. From Africa, the Philippine Islands, Panama, Honduras, Canada and from America's own Appalachian forests come the rare and rugged woods that go into the production of THOMASON Flush Doors.

AVAILABLE WITH THESE FACE VENEERS

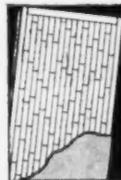
Philippine Mahogany, Genuine Honduras Mahogany, Walnut, Oak, Birch, Knotty Pine, Gum, or in any face veneer desired.

Here is more good news!
THOMASON plastic-faced
flush doors are now available
in all domestic and foreign
wood grain plastics, as well
as in decorative plastics.

NOTE CONSTRUCTION FEATURES



Hollow Core



Solid Core



MANUFACTURED BY

THOMASON
PLYWOOD CORPORATION

FAYETTEVILLE • NORTH CAROLINA

SOLD ONLY THROUGH DISTRIBUTORS

Write Us Today For Name and Address Of Your Nearest Distributor

APRIL 1953

"It's open and shut with no work at all..."

R-W *electric* Garage Door Operators

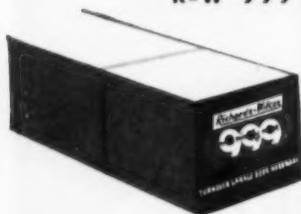


These R-W Features

ARE IMPORTANT SALES MAKERS

- **Easy to install**—Completely assembled, with track, in a single carton at the factory.
- **Easy to service**—Simple adjustments requiring no special tools, keep the doors working smoothly.
- **Safe**—A large friction clutch prevents operational failures with resulting damage to property. In power failure doors may be operated manually.

And FOR UNBEATABLE CONVENIENCE, IT'S R-W 999 GARAGE DOOR HARDWARE



Here it is . . . *complete* overhead garage door hardware conveniently packed in one box. No. 999-1 for doors up to 9 ft. wide weighing not more than 200 lbs.; No. 999-2 for doors up to 16 ft. wide weighing not more than 375 lbs. Write for folder giving free details.

Check these two R-W controls, engineered for dependability and efficiency:

No. 1251 Standard Control
—operates from driveway key switch.



No. 1504 Radio Control

—operates from dash control button, opens and closes doors within 75 feet. Also operates doors from inside garage.



For complete information on R-W AuT-o-DoR line write for catalog number A-87.

Richards-Wilcox Mfg. Co.

"A HANGER FOR ANY DOOR THAT SLIDES"

220 THIRD STREET, AURORA, ILLINOIS



1880

1953

SLIDING DOOR HANGERS & TRACK • FIRE DOORS & FIXTURES • GARAGE DOORS & EQUIPMENT • INDUSTRIAL CONVEYORS & CRANES • SCHOOL WARDROBES & PARTITIONS • ELEVATOR DOOR OPERATING EQUIPMENT

AMERICAN BUILDER



AGAIN!
NATIONAL LOCK
COMPANY
makes news with
an important new arrival...

watch for announcement
NEXT MONTH



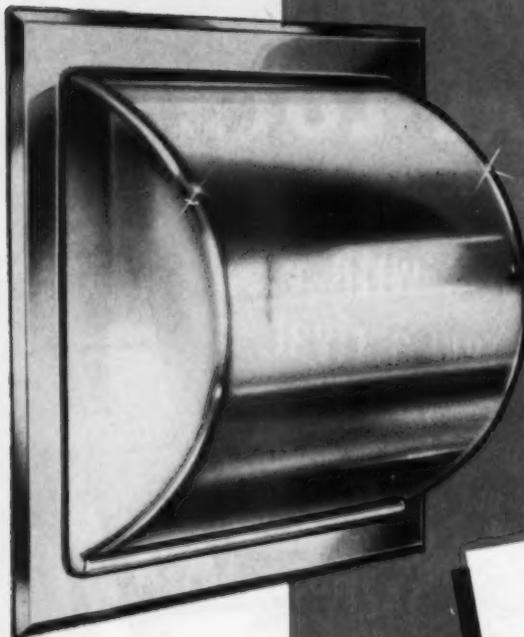
"all from 1 source"
NATIONAL LOCK COMPANY

ROCKFORD, ILLINOIS • Merchant Sales Division

modern

Design

patent no.
2561564



This newest mark of refinement for today's bathrooms... Hall-Mack's new concealed Toilet Paper Holder... brings smart styling and tactful covering to a bathroom facility that hasn't changed much down through the years.

When not in use only the pleasing curvature of the chrome cover gives a hint of the contents... yet it opens instantly at the touch of a finger. It blends perfectly with all modern bathroom designs and colors... and easily accommodates a standard roll of toilet paper.

This new Concealed Toilet Paper holder is but another example of Hall-Mack quality expressed through originality of design.

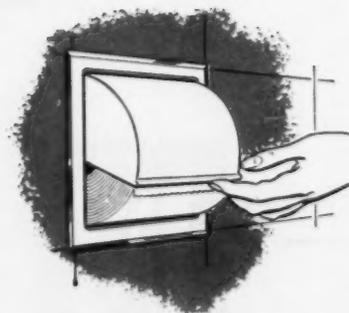
bathroom magic...

An original Hall-Mack idea, this new Concealed Toilet Paper Holder is the extra touch of convenience and charm that makes a home more desirable... more saleable! Only the finest materials and craftsmanship go into bathroom accessories bearing the Hall-Mack name.

In Hall-Mack's complete line of bathroom accessories you'll find a number of original developments with the kind of special appeal that sparks up an entire bathroom... and conveys the impression that the entire home is the result of careful thought and planning.

May we send you complete information on Hall-Mack's new Concealed Toilet Paper Holder... and on other exclusive Hall-Mack bathroom accessories?

HALL-MACK®
the BEST answer to
QUALITY BATHROOM ACCESSORIES
...for Every Style and Budget!



*Sold by leading plumbing,
tile and hardware
dealers everywhere.*

HALL-MACK COMPANY

1344 West Washington Boulevard, Los Angeles 7, California
7455 Exchange Avenue, Chicago 49, Illinois
1000 Main Avenue, Clifton, New Jersey

This Is Your Reference Issue — Keep It Handy

THIS 1953 CATALOG DIRECTORY issue is a pioneer in its class. Heretofore, issues similar to this have presented an assortment of useful, but generally unrelated material. While some presentations of this kind have grouped information and tabulated material under chapter heads, little or no attempt has been made to achieve continuity. *American Builder's 1952 Catalog Directory* did strive for continuity by interspersing tables, charts, and graphs with text. The attempt was successful.

This year, however, the publishers wanted a closer relationship of the material with the types of structures in which the materials are applied. As a result, and with a full realization of all the obstacles and difficulties that would have to be met, it was decided to choose a group of typical buildings, and use them as actual examples of the best ways to install and apply.

It was reasoned that only in this way could a vast mass of information be pinpointed and thus given a utility to readers far beyond anything obtainable without actual engineering and application details in structures. While it has been impossible to engineer all of the products discussed in one or more of the buildings used as examples, the work has been done as far as practical.

The publishers believe that this forward step in presenting catalog information makes this *1953 Catalog Directory* the most valuable issue of its kind ever published in the light construction field.

It will be noted that the indices of products, manufacturers' names and brand names has been streamlined to include only the more important producers of each class of products. Heretofore an attempt has been made to bracket the entire field of production. The result has been the inclusion of scores of names of minor producers, most of them distributing in limited areas, and without facilities to service inquiries and orders on a national scale. It is felt that such indices waste the time of both readers and the smaller producers.

The indices of products, manufacturers and brand names in this issue include only the more important ones. Marginal and little used product classifications have been deleted. Only the names of manufacturers operating on national or near national scales have been retained.

The Catalog Directory has been stripped of all useless data and listings, and carefully planned as an indispensable reference volume of easily understandable and applicable data for busy builders who want quick and reliable answers to problems.

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AB Washington News Letter

For the Light Construction Industry

A special service for American Builder readers. The latest Washington developments affecting the light construction industry assembled by special Washington correspondent and sent by wire to be printed and bound in your American Builder at the last minute before it is mailed. A regular monthly feature.

Washington, March 20, 1953

▶ ALBERT M. COLE, former Republican Congressman from Kansas, is the man selected by President Eisenhower to become administrator of the Housing and Home Finance Agency. He will succeed Raymond M. Foley.

▶ THE SENATE CONFIRMED THE APPOINTMENT by a 64 to 18 vote. Some opposition had been expected because of Cole's strong position against public housing while a member of Congress.

▶ A MEMBER OF THE HOUSE BANKING AND CURRENCY COMMITTEE since 1947, the new HHFA administrator took an active part in forming much of the nation's housing legislation. This is the law he must now administer.

▶ HIS FIRST MOVE will be to undertake a "comprehensive study" of the organizations and functions of HHFA. He said the "White House asked that he conduct such a study. He thinks emphasis should be placed on keeping activity in the homebuilding industry high.

▶ APPEARING before the Senate Banking Committee in connection with his appointment, Cole touched upon many aspects of housing. Here are some of his views:

▶ SLUM CLEARANCE: "I think private enterprise can do the job." He said he already has "very definite plans" on this subject, and will make it "my number one project." He denied that he opposes the slum clearance program. His criticism of such legislation in the past, he said, stemmed from his belief that slum clearance was being used as "a vehicle for extraneous legislation." He did not elaborate.

▶ RESEARCH: Cole indicated that while he originally opposed giving research authority to HHFA, he no longer has such reservations. He said that as of the present he would not seek changes in this portion of the National Housing Act.

▶ INTEREST RATES: "I look on interest rates as part of the over-all fiscal policy of the government." Cole's approach to this problem would be to do nothing until "a thorough and complete study" is made, and then only in cooperation with the Treasury and the Federal Reserve. He said he felt no change was needed "at the moment." He defined a "moment" as "30 days."

▶ FHA AND FNMA: Cole thinks the FHA program is a good one. He said he has no objection to FNMA as a "secondary mortgage market"; but he expects to "take a look" at FNMA if he becomes HHFA administrator. He agreed with one senator that the government should take the lead in setting up "some program" to take the FNMA load off the government. He said there should be a decrease in direct government housing activity "when conditions warrant."

▶ PUBLIC HOUSING: Cole said personally he opposes "certain aspects" of public housing. He thinks it would take "100 to 200 years" for existing programs in this field to accomplish anything. He said he did not think his opposition to public housing in the past was important to his present situation. He assured the Senate committee he would "administer existing law effectively" even though he might not agree with all aspects of it. And, at one point, he said he was not "unalterably opposed" to all public housing. He said that as HHFA administrator he would not "lobby for or against public housing."

▶ **HOUSING FOR LOW-INCOME GROUPS:** "I think we have been reactionary, we have been static in our housing program." Cole said the nation must have "a vigorous program" to provide housing for low and middle-income groups. He spoke of 6,000,000 families. But he insisted we must do this job "and still maintain the liberty of the people."

▶ **WARRANTIES:** Questioned on the matter of compulsory warranties, Cole said he agreed "with the broad general principal." He did not indicate just where he would draw the line.

▶ **INDUSTRY REACTION** to the Cole appointment has been unanimously favorable. The National Association of Home Builders, for example, called Cole "eminently qualified" for the position — "an outstanding choice."

▶ **AN "ENTIRELY ENCOURAGING" OUTLOOK** for the remainder of 1953 is seen by Raymond M. Foley, the departing head of HHFA. Foley had headed the agency and the nation's housing program since 1945.

▶ **CHIEF PROBLEM** this year will be mortgage money, in Foley's opinion. Adequate funds are on tap, he thinks, but the job will come in trying to channel such funds into production of houses in the low-income brackets.

▶ **REVIEWING** his 18 years in the government housing field, Foley said "one of the most important things" during that time has been the "amazing growth" of the homebuilding industry. He recalled the situation in the mid-thirties and compared it with the present when a million starts a year "is just matter of fact."

▶ **ESTIMATES** of construction volume so far this year bear out earlier optimism. Dollar outlays for new residential construction are running 13 per cent above last year. Spending for "additions and alterations" to existing homes is up 10 per cent.

▶ **CONGRESS HAS APPROVED** the \$500,000,000 increase in Title I insurance authority for FHA. The timing is good. The action was promptly cleared by the President. It will provide a spark for the "repair, alteration and improvement" business during the spring and summer months.

▶ **A "PAY-BACK" CLAUSE** contained in this latest Title I legislation points up the financial success of this program. When Title I was initiated several years ago, the government advanced some \$8,300,000 for expenses and claims. Since 1944, the program has paid its own way and piled up an \$18,000,000 surplus. Beginning July 1 the Treasury will start getting back its original advance.

▶ **TITLE I** may get more attention from this session of Congress. Several legislators have indicated they would like to see it more widely used for rehabilitation of sub-standard housing. One possibility: setting a five-year term for Title I loans, in place of the present three years.

▶ **AGITATION** over interest rates, particularly the VA rate, continues. Congress is waiting to see what the new HHFA administrator may do about FHA rates. (Both VA and FHA have authority to raise rates above present levels). Industry groups met recently with a committee of the American Legion to present their case for a "realistic" VA rate.

▶ **PRICE CONTROLS** are fading fast. Most products and services affecting light construction already are decontrolled. CPR-93, covering construction services generally, is suspended. So are price ceilings on copper, aluminum, paint, lumber and wood products. All price controls will end April 30, when the law expires.

▶ **CMP CONTROLS** over steel, copper and aluminum are no longer a problem. NPA has "open-ended" CMP. This means that any person who can get materials without the use of so-called "rated orders" may legally do so. Construction of projects which formerly required specific NPA approval may now begin without such approval.

▶ **SELF-CERTIFICATION** remains a part of the homebuilding picture. But a builder who needs more than his authorized quota of steel, copper or aluminum may go shopping for it in the open market without restriction.

▶ **COMPULSORY WARRANTY** legislation is in the works. A new bill (H.R. 2745) has been introduced in Congress, and is before the House Banking Committee for study. Hearings haven't been set. This type of law, generally opposed by the industry, has gained new support in Congress since last year's investigations into "defective" VA and FHA housing.

Here's the Home Building Picture Across the Nation

A pronounced change in home building trends is indicated in this new *American Builder* survey, which highlights the necessity for progressive builders to keep posted with the latest available information.

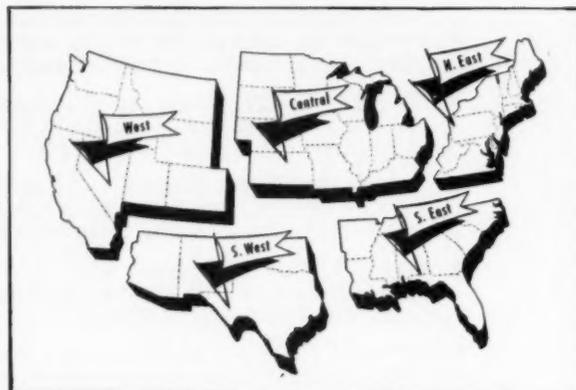
Last minute opinions of home building authorities, received by telegraph a few days ago from every corner of the nation, are revealed here to show their thinking about the future of your business:

Consensus:

The present building scene is puzzling in some respects. Financing has reached a most critical stage. Even the big VA money stronghold, the Northeast, is tightening up in many sections. FHA loans are increasingly hard to find. Generally, Congress is being urged to end the crisis by raising interest rates.

Costs are tending to rise again, principally because of labor demands. Sales resistance continues about the same as three months ago, though a few areas assert they are free of this headache.

Despite these fundamental problems, builders are shoot-



ing for a slight increase in starts over those of a year ago, aided by an abundance of manpower and materials. Considerable interest is being shown in the remodeling movement, but it has not yet affected very many of the larger operative builders.



What's the Mortgage Money Situation For New Home Financing?

Northeast: Long Island boasts adequate supply "at no discount"; Westchester, N. Y., and Springfield, Mass., "no trouble." VA tightening in Boston, Providence, Hartford, Conn.; Schenectady, N. Y., northern New Jersey; also Buffalo, where for first time banks ask 1 per cent service charge. South Jersey needs up to 3 per cent discount. No VA in Washington or Wilmington, Del. FHA limited in Richmond, Va. and Portland, Me. Pittsburgh envisions big market "when we get GI money and 10 per cent down."

Southeast: Conventional and FHA loans just fair at New Orleans, which finds VA down to rock bottom, along with Miami, Birmingham, Ala., Charlotte, N. C. and Nashville, Tenn. Some VA available at discount in Memphis but getting harder to place at 96 to 97 in Jackson, Miss. For first time, no region listed FHA loans as "adequate."

Central: All loans fairly tight in Detroit, Milwaukee and Louisville. Chicago says savings and loan groups are loaded with money but VA loans are hard to get at reasonable figures. Peoria, Ill., can get VAs only for 10-year term, while conventionals bear interest as high as 6.6 per cent. To revolutionize picture, generally rated impossible, Cincinnati urges interest boost to 4½ per cent. Cleveland notes mortgage money loosening up somewhat.

Southwest: Conventionals adequate if equities are large. FHA scarce in Arizona, Oklahoma, Texas Panhandle. VA very tight; costs 3-5 per cent brokerage in Houston.

West: VA financing virtually extinct without discount—as high as 5 per cent in San Mateo, Calif. FHA moderate to tough throughout; improving at Spokane, Wash., but becoming progressively worse at Sacramento, Calif.

Is Sales Resistance Increasing? In What Price Brackets?

Northeast: Troublesome brackets include \$9,500-\$13,000 in Springfield, Mass.; \$14,000-\$18,000 in Providence, decreasing; \$15,000-\$25,000 in Philadelphia. Pittsburgh blames financing for general resistance. Little or no sales problems found in Rochester, Buffalo, Long Island and Westchester county, N. Y., or northern New Jersey. Sales stiffen at \$15,000 in most other areas.

Southeast: Resistance begins at \$15,000 in South Florida, at \$10,000 in Birmingham, Ala., and is felt in all price categories elsewhere due to high cash requirements.

Central: Bracket of \$18,000-\$30,000 sluggish in Chicago, while Detroit finds slow going in \$13,000-\$19,000 range and Lansing, Mich., \$13,000-\$16,500. Resistance begins at \$12,500 in St. Paul; \$15,000 in Des Moines, \$25,000 in Louisville, \$30,000 in Minneapolis. Selling in all price groups is improving in St. Louis and Kansas City. Lincoln, Neb., finds sales "automatic" below \$11,000. Dayton, Ohio, reports buyers object to down payment, not the price.

Southwest: Sales problem increasing over \$8,000 in Pampa, Texas, and \$12,000 in Houston. Resistance above \$10,000 in San Antonio, Texas, and Phoenix, Ariz. Tulsa, Okla., reports no trouble at present in any bracket, but \$10,000-\$15,000 range is of increasing concern in Oklahoma City.

West: Noticeable sales slowdown above \$10,000 in Seattle, \$12,000 in Spokane, Wash. and Denver; \$14,000 in San Francisco, \$16,000 in Los Angeles. High down payments affecting all brackets in Sacramento, Calif. San Mateo, Calif., finds no real resistance to sales, says buyers recognize costs but can't meet financial terms.

(Continued on page 22)



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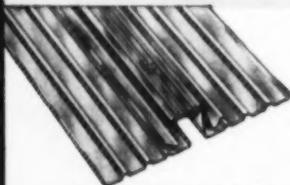
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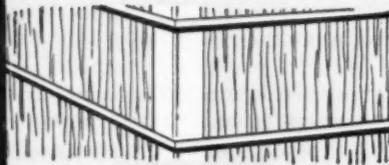


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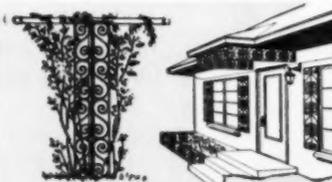
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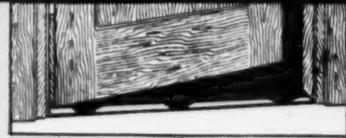
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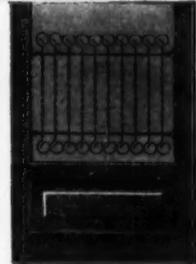
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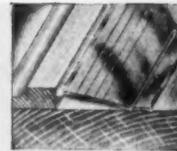
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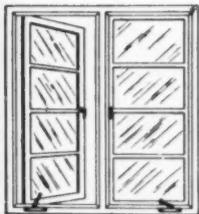
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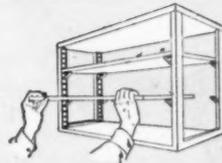
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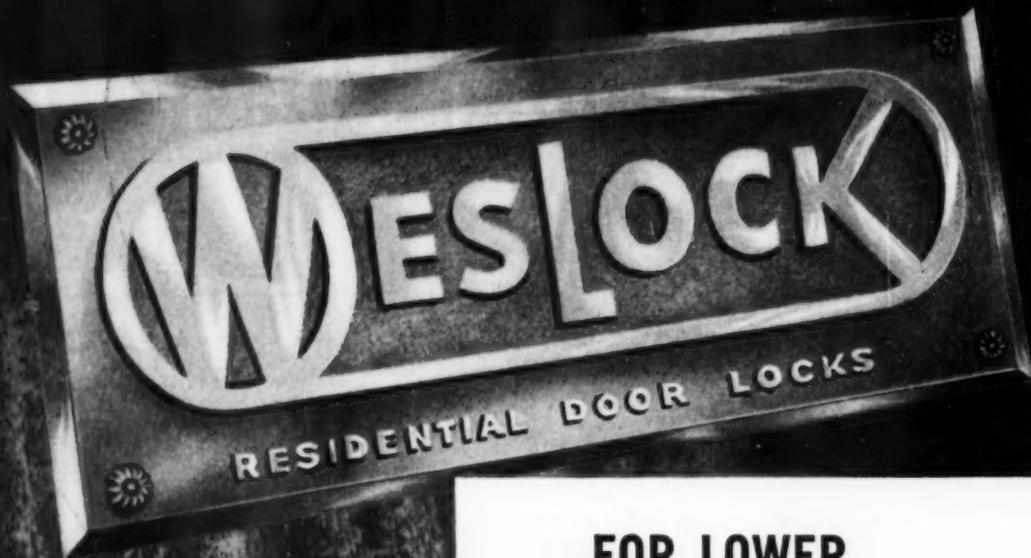
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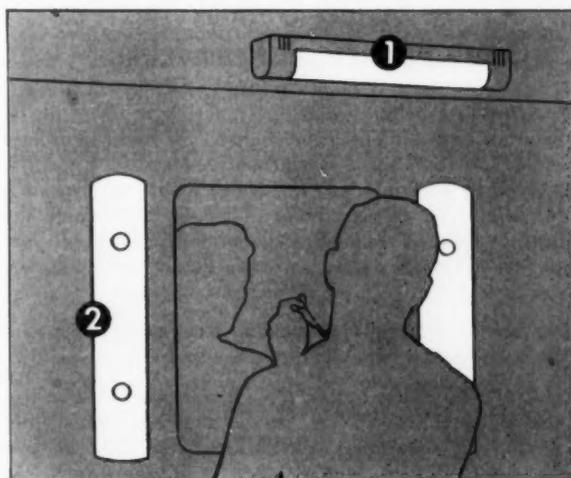
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GENERAL  ELECTRIC

Home Starts in Next Six Months— Increase or Decrease?

Northeast: Majority of centers see no change and most of remaining cities look for slight improvement. Westchester, N. Y., expects 15 per cent jump. 10 per cent rise is forecast for Long Island, Buffalo, Albany, N. Y.; Portland, Me.; Springfield, Mass. and Wilmington, Del. Only decreases being predicted are 15 per cent in Washington, 10 per cent in Corning, N. Y. and 5 percent in Hartford, Conn.

Southeast: New Orleans anticipates sharp boost, perhaps 25 per cent; South Florida an increase up to 10 per cent. Other areas look for decline of 10 per cent; it may be 15 per cent in Birmingham, Ala.; 20 per cent in Nashville, Tenn., 25 per cent in Charlotte, N. C.

Central: St. Louis and Louisville see 20 per cent more starts; Lansing, Mich., and Sioux City, Iowa, 15 per cent; Chicago and Detroit about 10 per cent. Minneapolis-St. Paul region will be down 10 per cent; Dayton, Ohio, 15 per cent and Peoria, Ill., 25 per cent, the latter due to large carryover of unsold houses. Other centers range from no change to 10 per cent improvement.

Southwest: Little change anticipated, except Tulsa, Okla., up 20 per cent; Phoenix, Ariz., up 10 per cent, and Amarillo, Texas, down 20 per cent.

West: Increases are the rule, topped by 20 per cent in Spokane, Wash. San Francisco-San Mateo region looks for 10-15 per cent rise. No decrease impending except Sacramento, Calif., where starts may fall 5 per cent unless financing eases.

What's the Builder Outlook This Year For More Business in Remodeling?

Northeast: Pittsburgh notes FHA trying to drum up interest but finds builders have enough new business to keep remodeling from becoming attractive. More such work is expected in Washington, Providence, Rochester, Portland, Me., Albany, N. Y., Schenectady, N. Y. and Richmond, Va. Hartford believes remodeling prospects will be good, "but builders will require time to enter a field relatively new to them."

Southeast: All reporting centers, except Memphis, look for rising trend.

Central: Milwaukee reports some builders have withdrawn from conventional field to do nothing but remodeling. Kansas City looks to its April 12-13 home show to spur this market. Builders who go after the business are booking plenty of jobs, says St. Louis. St. Paul finds that sales resistance is forcing more builders into remodeling. Consensus is topheavy for much additional remodeling activity this year.

Southwest: Increased activity seems limited to Houston and Oklahoma centers.

West: Most operative builders turning thumbs down. Principal exceptions are found at Los Angeles and Spokane, Wash.

Where Are Building Costs Headed In the Next Six Months?

Northeast: Rise of 5 per cent possible in Buffalo, Albany, Corning and Westchester County, N. Y.; Philadelphia and Wilmington, Del., 4-5 per cent in South Jersey and of 3 per cent in Portland, Me. Long Island carpenters, seeking boost from \$2.90 and \$3 to \$3.40 an hour plus 20 cents an hour for pension fund, may upset stable cost appercart there. Labor seeking increases of 2½ to 53 cents an hour in Philadelphia. Land costs moving up in Rochester. Undetermined increases also predicted for Syracuse, N. Y., and Reading, Pa., regions.

Southeast: Mostly no change, though Miami and Charlotte, N. C., see 3 to 5 per cent increase, and Jackson, Miss., one of 1 to 3 per cent.

Central: Detroit and Kansas City fear 5 to 7 per cent rise inevitable; Des Moines puts it at 2 to 5 per cent and Cleveland at 5 per cent. Restrictions have upped average cost of a lot by \$800 in Dayton, Ohio. Most other centers expect to hold the line, with fluctuations evening out, unless labor secures big pay increases. Columbus, Ohio, believes costs may be forced up by labor competition of atomic plant.

Southwest: Amarillo, Texas, looks for 5 per cent added cost, Oklahoma City a 2 per cent increase and Phoenix, Ariz., and undetermined rise. Otherwise stable.

West: 10 per cent boost slated for San Mateo, Calif.; 5 per cent virtually everywhere else; except Denver, which expects to stand pat and Spokane, Wash., with a 2 per cent drop forecast.

Is the Labor Supply Adequate?

Northeast: Sufficient manpower everywhere, though Portland, Me., expects tight supply in summer. Carpenters and bricklayers now in 10 per cent oversupply in Washington area. Plumbers somewhat short in Camden, N. J., which notes that general labor supply is adequate, "though skill leaves something to be desired."

Southeast: Adequate supply throughout. Charlotte, N. C., reports surplus. Large non-residential jobs may create shortage in trowel trades and electricians at Miami.

Central: No shortages, but Columbus, Ohio, expects atomic plant to draw labor away later this year. General surplus in St. Louis.

Southwest: Excess labor at Tulsa, Okla., and Amarillo, Texas. Adequate elsewhere.

West: Carpenters "long" by 10 per cent in Sacramento, Calif., 3 per cent in San Mateo, Calif. No shortages.

Are Materials in Adequate Supply?

Northeast: Satisfactory quantities available throughout area.

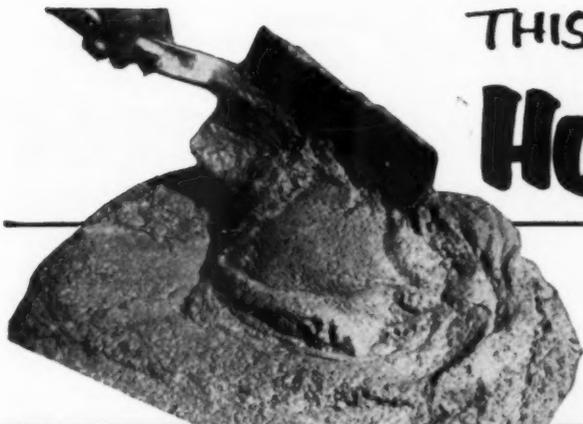
Southeast: Surpluses the rule; no problems.

Central: Copper tight in Des Moines, Iowa. Materials adequate to plentiful elsewhere.

Southwest: Supplies plentiful in all reporting centers.

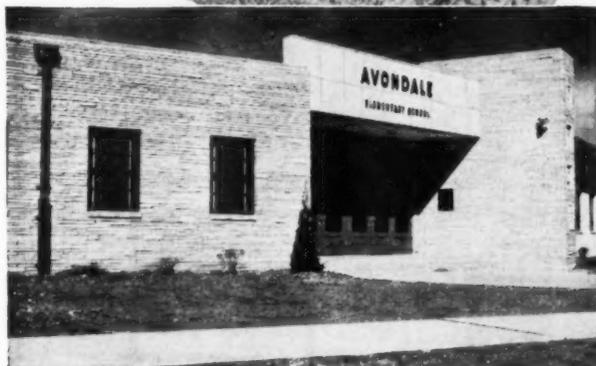
West: Adequate, but Sacramento, Calif., notes slow delivery of some manufactured equipment.

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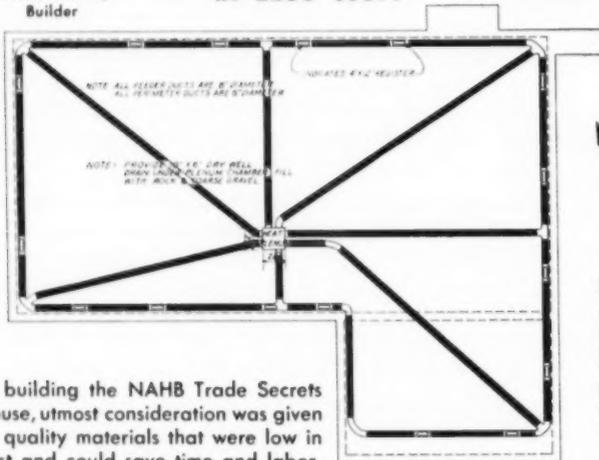


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of Heating Layout for "Operations Trade Secrets" House. Please attach your letterhead.

In building the NAHB Trade Secrets house, utmost consideration was given to quality materials that were low in cost and could save time and labor. With this in mind, Alex Simms of Dayton selected SONOAIRODUCT and joined the hundreds of other builders who have discovered the "trade secret" of using fibre duct for slab-on-ground perimeter heating systems. Important savings over clay and galvanized pipe!

Light weight SONOAIRODUCT was specifically designed for supply or return lines in loop, radial or lateral systems. Sizes 2" to 24" I.D., up to 24' long. Can be sawed to exact lengths on job. Permitted by F.H.A. Watch for the announcement of SONOAIRODUCT-XP (Exposed) for attic and crawl space.

Write for complete information and prices

SONOCO PRODUCTS COMPANY
 Construction Products Division
 GARWOOD, N. J. HARTSVILLE, S. C. MYSTIC, CONN. BRANTFORD, ONT.

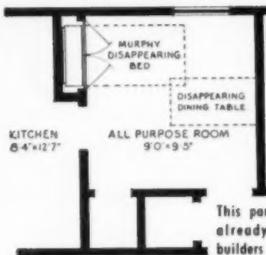


DISTRIBUTORS WANTED—Write for complete details.

Important!

Investigate how FHA and VA regard all purpose rooms as 3rd bedrooms with resultant loan advantages.

Add an "EXTRA" Room without adding to building cost!



LIVING SPACE BY DAY...
 SLUMBER LUXURY AT NIGHT!

This particular layout has already been used by builders in over 500 homes.



Illustrated above is one of many examples of how ingenious builders everywhere are using Murphy Beds as the answer to the popular demand for an "extra" room.

The Murphy Bed illustrated is only one of several Recess Models, some requiring as little as 13" depth. Other models include Pivot and Roller types. All are built to receive standard mattresses to assure maximum sleeping comfort.

Send today for complete details on all Murphy Bed Models and Murphy Cabranette Complete Kitchens.

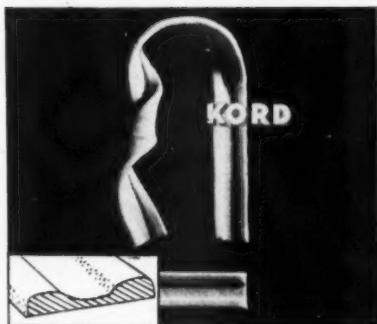
MURPHY BED AND KITCHEN COMPANY, INC.
 19 West 44th St., New York 36, New York
 Please send free information on Murphy Beds and Cabranette Kitchens.

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 ADDRESS _____
 CITY _____ STATE _____

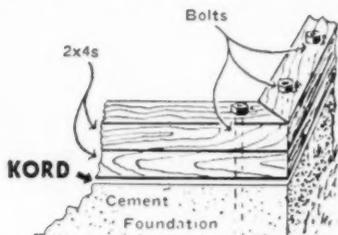
AMERICAN BUILDER

A New Twist...

THAT SAVES! by Sterling



KORD is the prefabricated caulking compound designed to reduce labor costs and waste. One of its many uses is to seal sills.



The sketch shows one of the uses of KORD by one of the nation's leading builders, the Levittown homes, to weatherproof the sills.



STERLING — the nation's most complete caulking and sealing service.

KORD is produced by the makers of time-tested Sterling glazing and caulking compounds.

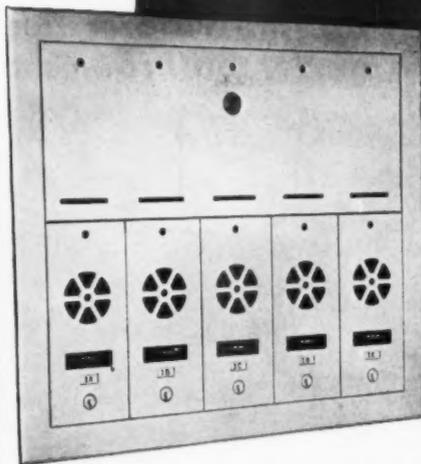
See Sweet's file # or send for full information today.

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162 Commercial St. Malden, Mass.

APRIL 1953

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STAINLESS STEEL APARTMENT HOUSE MAIL BOXES

Again pioneering in the development of fine quality equipment for homes and apartments, Auth offers Apartment House Mail Boxes with stainless steel fronts. No other mail box face-metal has the same resistance to corrosion and abuse as satin-finished stainless steel. With a minimum of care Stainless-Steel-Front Mail Boxes will have the same fine appearance many years after installation as they had when installed. Recognizing this fact the Metropolitan Life Insurance Company, the New York City Housing Authority, and many other leading developers of large scale housing have specified and installed Auth Stainless-Steel-Front Mail Boxes in all their recent developments.

Auth Mail Boxes are officially approved by the U. S. Post Office. They are made in gangs of 3 to 13 receptacles to a gang; by joining gangs together any number of receptacles may be installed.

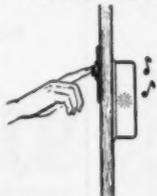
Other outstanding features are a wide one-piece trim, rust-proof lead-coated steel interiors, and extra-heavy reinforced doors. Available with or without push buttons to ring bells or chimes in apartments. In addition to satin-finished stainless steel, brushed brass or sprayed brass finishes are available.

For complete details on Auth Apartment House Mail Boxes, write to the Auth Electric Company, Inc., 34-20 Forty-Fifth Street, Long Island City 1, N. Y., or consult your telephone directory for local office.

NON-ELECTRIC DOOR CHIMES FOR APARTMENTS

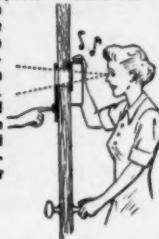
NATIONAL MODEL No. 850

A completely non-electric door chime... no wiring. Utilizes a mechanical push button mounted on the outside of the door or door frame to sound two musical notes on the chime mounted on the inside. Handsome push button escutcheon plate is forged solid brass with polished finish. Decorative chime (only 6 1/2" x 3" x 2") is finished in ivory enamel. Fits all doors or door frames up to 9" thick. A great money-saver for any home or apartment.



METROPOLITAN MODEL No. 890

Similar to the National Model in its operation by a mechanical push button, but with an additional "peephole" feature. An adjustable window in the chime permits the resident to observe a caller through a one-way mirror without, in turn, being observed. Space for name and apartment number on front plate. A beautiful new design, just released, and ideal for apartments.



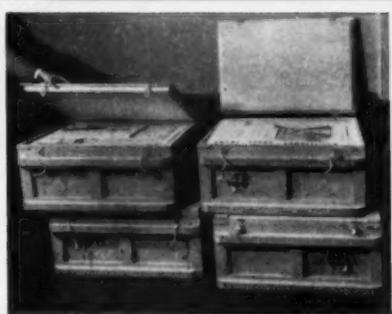
FOREMOST IN THE DESIGN AND MANUFACTURE OF ELECTRICAL SIGNALING, COMMUNICATION, TIME, AND PROTECTIVE EQUIPMENT FOR SCHOOLS, HOSPITALS, HOUSING, OFFICES, SHIPS, AND INDUSTRY.

ANNOUNCING THE RESULTS OF THE CRANE IDEAS COMPETITION

*Crane holds nation-wide contest to stimulate
interest in better bathrooms and kitchens*



There were so many entries in the Crane competition it required four large, specially built chests to ship them to the judging place. The distinguished Jury of experts consisted of Alan Brockbank, Home Builder, of Salt Lake City, Utah; Royal Barry Wills, Architect, of Boston, Mass.; Glenn Stanton, Architect, of Portland, Ore.; George Dahl, Architect, of Dallas, Tex.; and Henry Dreyfuss, Industrial Designer, of South Pasadena, California.



In order to discover and develop new ideas for bathrooms, kitchens and utility rooms—rooms of increasing importance when it comes to selling houses—Crane has just held a nation-wide architectural competition.

Nearly 500 architects, draftsmen and designers submitted entries, and a distinguished jury picked 32 winning designs to share \$23,000 prize money.

You'll see the very best of these prize winners—the newest, most advanced, most practical ideas of all—in forthcoming Crane advertising.

Crane is already building some of these rooms to photograph for publication; and details will soon be yours for the asking. Watch for the announcement!

FIRST PRIZE WINNERS

Bathroom for home costing up to \$25,000

*J. A. Curtis,
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Bathroom for home over \$25,000

*Charles West Jones, Jr.,
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Kitchen for home in any price range

*Richard C. Brigbam,
Cambridge, Mass.*

Utility room for home in any price range

*Donald H. Pannsbka,
Birmingham, Mich.*

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PLASTERER—The *light weight* of Permalite/plaster—about $\frac{1}{3}$ the weight of sand/plaster—lifts a heavy load off the plasterer's shoulders . . . makes plastering easier, faster, better, because Permalite/plaster has *excellent workability*.

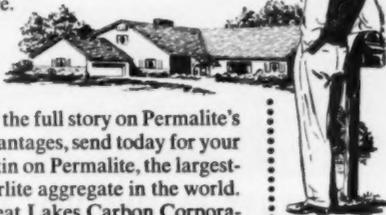


BUILDER—Builders like Permalite/plaster for three reasons. *Light weight* means the job goes quicker—easier to mix and handle on multi-story structures. *Light weight*, saving as much as one ton of dead weight per 100 sq. yd., also means less settling, less chance of cracks. (Permalite/plaster gives up to 42% greater crack resistance.) And Permalite/plaster also gives *increased fire resistance*.



ARCHITECT—Permalite/plaster simplifies the architect's job on large buildings, because it reduces dead weight, provides *easier fireproofing* of steel columns and ceilings—saves money which can be better applied to other building features. Architects specify Permalite/plaster in many home-building jobs because it provides more lasting satisfaction to the home owner.

BUILDING OWNER—This man gets all the benefits shown above, and, in addition, gets greater comfort, because Permalite/plaster provides him with *extra insulation*, for more even room temperature.



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APRIL 1953

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If it's

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Yes, since 1862, PECORA has played its important part in helping America build its better buildings from coast to coast—building with quality materials—material by Pecora. Across the years, across the country, Time has proved the wisdom of depending on Pecora if you're depending on the best!

Manufacturers of Caulking Compounds, Mastics, Putties, Glazing Compounds, Roof Coatings, Maintenance Finishes, Industrial Enamels.



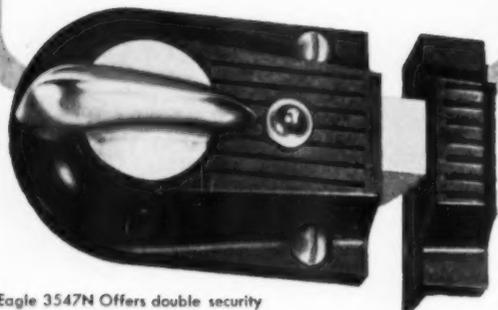
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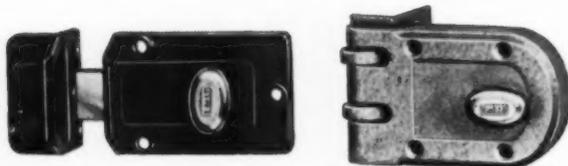
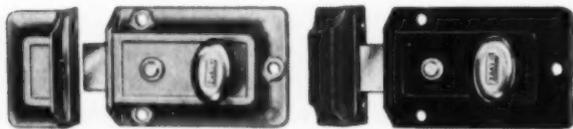
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Eagle 3547N Offers double security for Back doors, Cellar doors, Garage doors, Closets, Out buildings.

YOU KNOW that Rim Night Latches should be used in every house you build. It is not a question of where, but which latch you choose to install. This Eagle auxiliary lock with a five pintumbler mechanism and solid brass bolt has the style, plus the security that every new house deserves.

There is no rim night latch that can equal the appeal of this 3547N with its glistening streamlined nicked knob on its rich black case. It is the height of superiority in Rim Night Latches.



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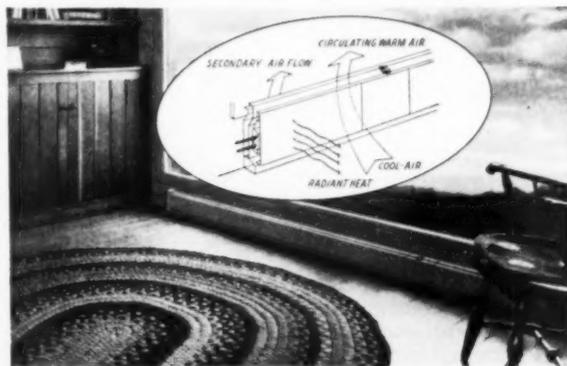
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Speeds up the materials handling part of building jobs . . . eliminates aching backs. Most practical and widely used contractors' hoist. Weighs only 315 lbs.—easy to roll and load. Simple, safe to operate. Built for continuous use.

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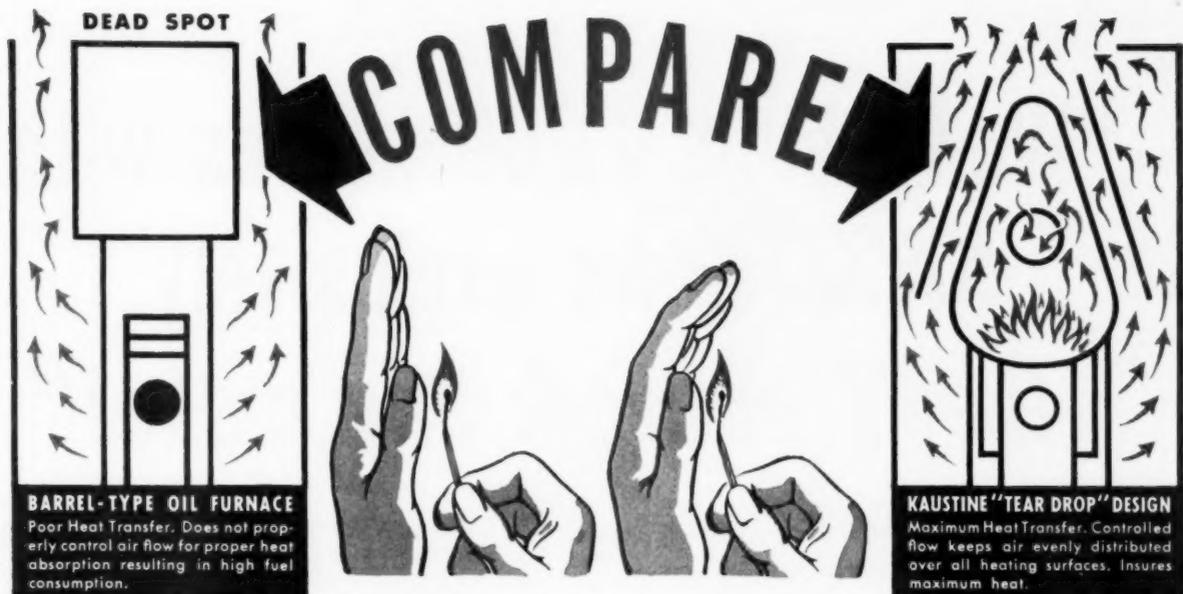
New lower cost of Wesix Automatic Electric Baseboard Panels plus new simplified installations means you can equip your homes with perfect, modern perimeter heating at a fraction of former cost.

Ideal for homes with "picture" windows or rambling style, Wesix Baseboard Panels can be installed as total house heating (economical, too, wherever electric power "end rate" is 2c per KWH or below) alone or combined with famous Wesix Wall Furnaces or as auxiliary aid to central furnace systems.

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Basically this phenomenal ability to develop quick, even heat is achieved by the *controlled* course of air around the "Tear Drop" Heat Exchanger, the Radiation Sheets and the Economizer Unit. The latter utilizes the heat from stack gases.

Remember too... that Kaustine's reputation for quality is unsurpassed and their prices are competitive.

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The OIL FIRED HIGH BOY Jersey "75" Automatic Forced Warm Air Furnace. Requires only 3½ square feet of floor space. 75,000 B.T.U.'s. Chrome steel fire pot liner. Fully automatic controls. Shipped ready to install. Weight 324 lbs.



“We’ve built 4,000 homes with
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they’ll outwork any make!”

—says **Frank Baxter**, Cutting Yard Foreman,
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Now building another 400 houses, this company specializes in the development of new communities and is the two-time winner of the National Neighborhood Development Contest.

Comments Frank Baxter, “When you build this many houses as fast as we do, you must have saws that take plenty of abuse. Here in the cutting yard, our SKIL Saws are going *all day*, because we pre-cut most of the lumber in this project. If our saws give out, we’ll have a crew of carpenters idle. We don’t gamble—we use SKIL Saws!”

The fact that they rely on SKIL Saws *alone* is finest praise for SKIL Saw quality, sturdiness and performance.



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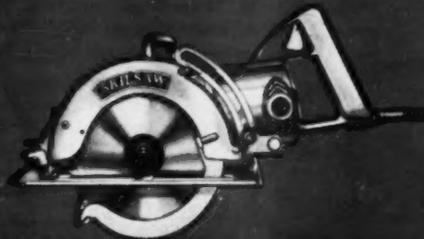
**"YOU CAN SEE THE CUT WITH
A SKIL SAW! . . ."**

says Wyman Hilburn, Blackfield Carpenter, here using Model 77 to notch studs for a wind brace. "What's more," he emphasizes, "two handles make this job easier, safer, more accurate!"



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One of 13 models. 7 $\frac{1}{4}$ " saw cuts 0° to 2 $\frac{3}{4}$ ". Bevel cuts 1 $\frac{3}{4}$ " at 45°. Time-proven SKIL worm gear transmits tremendous power for tough cutting.

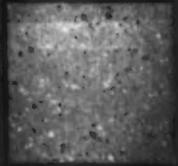
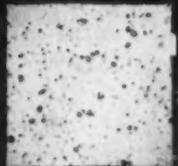


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Send full color catalogs illustrating the new Poly-Krome and other HAKO products.
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1953 American Builder Catalog Directory

"Not just *what* to do, but **HOW TO DO IT**" is the underlying theme of this year's AMERICAN BUILDER CATALOG DIRECTORY. With another record year of building starts well under way, builders and contractors are more than ever concerned with cost-cutting practical data which will help them build—and *sell*—homes and other buildings.

The first chapter of the 1953 AMERICAN BUILDER CATALOG DIRECTORY contains detailed plans, drawings, and renderings of seven typical structures, including residences, farm, and commercial buildings. These are presented in the same manner as the regular "Blueprint Home Of The Month" in other issues of the AMERICAN BUILDER, and will serve to:

- (1) Pin-point application of both familiar and new building products to typical structures and construction situations;
- (2) Highlight most of the common and some less common but important construction techniques;
- (3) Provide the working basis for specific plans and data sheets in the other chapters in the book—not just "What to do" but **HOW TO DO IT** throughout.

The readers of the AMERICAN BUILDER comprise the bulk of independent builders in the country—men who are the backbone of a light construction industry which draws its strength from the concepts of private housing and private enterprise. These builders account for the vast majority of homes and small commercial buildings which are erected, and must have at their fingertips specific information of this kind on new products and building techniques as they are developed.

With over 1,000,000 building starts predicted for 1953, and with more new building materials available since 1946 than in the preceding thirty years, builders have more need than ever for such practical, cost-cutting data. AMERICAN BUILDER'S 74 years of publishing experience in the light construction field qualifies this magazine particularly well to provide builders with that information and service in this 1953 AMERICAN BUILDER CATALOG DIRECTORY.

The structures selected to provide typical construction problems and situations include a couple of old favorites and some very new and modern designs. They are:

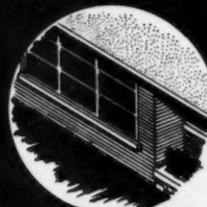
- PLAN (1)** A 1-story ranch type house with partial basement and crawl space. No garage, but one is provided for in the plan.
- PLAN (2)** A modern ranch type house without basement, with attached garage, brick construction.
- PLAN (3)** Two-story colonial with full basement and attached garage, modern designing throughout.
- PLAN (4)** Large, luxury ranch type home with attached 2-car garage, brick and field stone construction, double glazing, air conditioning, lots of "extras."

(Continued on page 37)



PLAN 1

RANCH TYPE
HOUSE



PLAN 2

RANCH TYPE
HOUSE



PLAN 3

TWO STORY
HOUSE



PLAN 4

LUXURY
RANCH TYPE
HOUSE



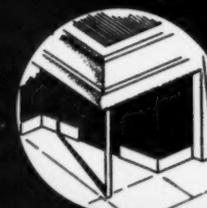
PLAN 5

MODERN
DAIRY BARN



PLAN 6

FACTORY
BUILDING



PLAN 7

MODERN
STORE
BUILDING



economical design is flexible, gives privacy on narrow lot

Designed by
Walter T. Anicka, Architect
Ann Arbor, Michigan

Designing a "Ranch" type house for a narrow lot presents a basic challenge which confronts most architects and builders in heavily built-up urban areas. Mr. Anicka solved this with a plan for a house which can be built on a 50-foot lot with adequate driveway at the side and garage either detached at the rear of the lot or located at the side of the house connecting to the utility room.

Privacy at the rear of the lot is increased by the fence running

from house to lot line—also by side location of garage if lot width permits.

While the plan shows partial basement and crawl space, the house can be built either with or without basement. Additional flexibility is gained by making it possible to install a stair to an attic over the basement stairs and increasing the pitch of the roof if additional rooms are desired.

Planned with a simple perimeter outline, approximately 1250 square feet of living area is provided in the basic plan. A single load bearing partition through the center of the house simplifies construction, providing a maximum span of joists and rafters of 14 feet.

Wiring is planned to allow for adequate outlets in every room with special attention paid to kitchen and utility rooms where major appliances may be installed.

Plumbing is economically arranged with lavatory and bathroom fixtures located back-to-back.

Room layout provides a minimum of hall area with no waste

space. Traffic patterns from room to room and between living areas are simple and direct.

Bedroom No. 3 can be used as a study with an entrance door to this room leading directly to the reception hall instead of to the interior hall as now indicated on the plan.

The architect suggests that the exterior facing of the house can be either plywood, horizontal or vertical wood siding, or a combination of these or other materials.

Popular features of the plan which make for added living pleasure include a natural wood fireplace, efficient kitchen layout, and ample closet space.

"Walls of glass" are provided off the living and dining areas,—behind the privacy of the house-to-lot line fence and at the rear of the structure to give a pleasant view of the back yard.

Optional arrangement of utility room provides space for heating unit in case house is built without basement.



1953 American Builder Catalog Directory

(Continued from page 33)

PLAN (5) A modern dairy barn of functional design with feeding and loafing areas, self-feeders, milking parlor and milk house.

PLAN (6) A small, compact, factory building built around the client's manufacturing processes.

PLAN (7) A unique store with provision for two or three tenants, brick construction, effective metal and glass store front treatment.

The 16 fact-packed chapters that follow cover as completely as space permits every modern construction method and building product of particular interest to the builder in the light construction field. Each chapter contains:

- (1) Specific product or building applications;
- (2) Plans and detail drawings;
- (3) Reference charts, tables, data sheets;
- (4) How-To-Do-It and How-To-Install information;
- (5) Suggested sources of additional specific information;
- (6) Cost-cutting suggestions for profitable building.

This issue of the AMERICAN BUILDER CATALOG DIRECTORY, marks several improvements over its predecessor. In addition to the alphabetical directory of building products contained in the back of the book, each chapter is outlined for ease in finding specific information. Supplementing the alphabetical listing of products are several others. One is an alphabetical listing of brand names identified with the producers of those products. Second, is an alphabetical listing of building products manufacturers and their addresses.

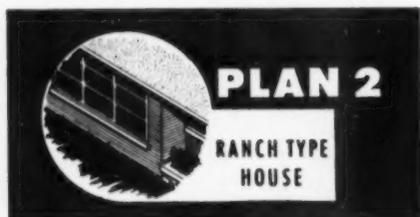
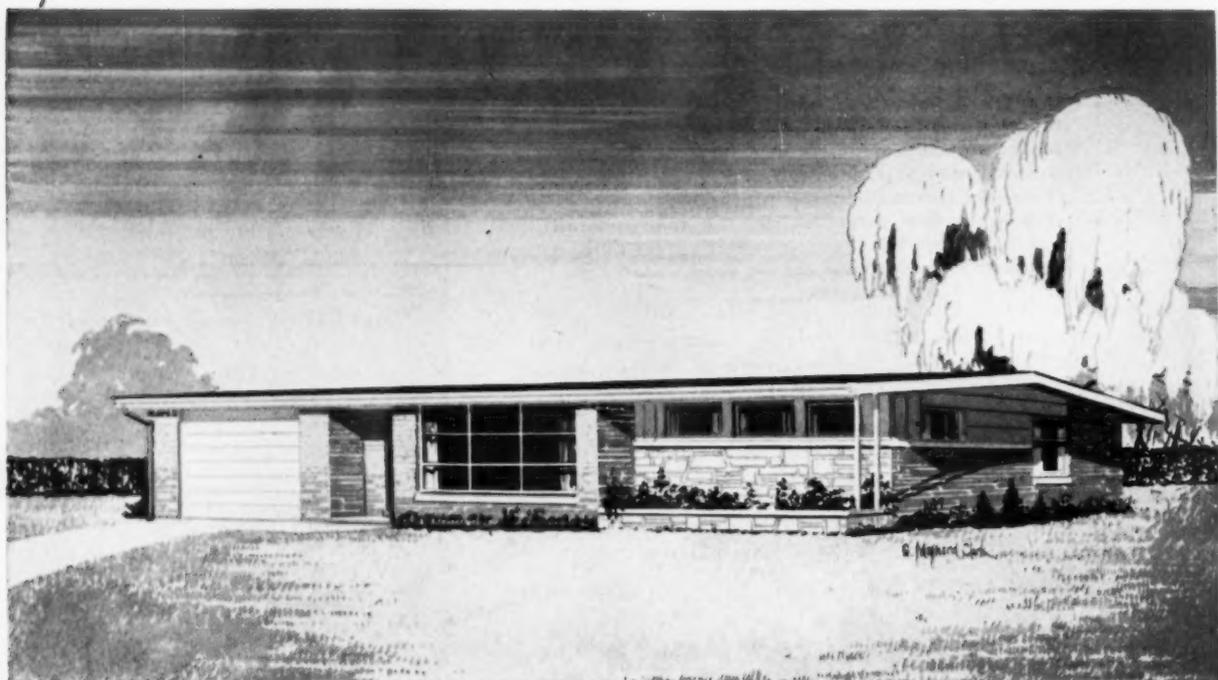
In the main reference data section which follows this "lead" chapter, advertising is included in the chapter which treats the products or construction techniques advertised. This association of advertising with reference data not only saves time for the reader in helping him find quickly both technical data and advertising on any particular subject, but gives him a wealth of additional technical information in the many data sheets provided by manufacturers on their various products. This type of make-up is possible only through great cooperation from advertisers, their advertising agencies, and the numerous trade associations who made many valuable contributions of information and illustration to this book.

The importance of this reference data to builders in the light construction field is clear: there is a continuing market for homes which have been started and will be started this year. While rising costs have forced some purchasers to buy a smaller home than they might otherwise wish, and while changes in credit have made some phases of home building uncertain, it is apparent that the mild shift from a seller's to a buyer's market is coming about because through private construction the housing needs of the nation are finally being met.

1953 home buyers are more choosy, shop around more for quality and durability and livability in a house. AMERICAN BUILDER is proud to serve the light construction industry in meeting these needs by providing technical information services such as this in the 1953 AMERICAN BUILDER CATALOG DIRECTORY.

16 FACT-FILLED CHAPTERS

1. Concrete, cement, mortar, plaster, aggregates, and structural clay products
2. Construction machinery, equipment, tools—power and hand
3. Lumber, plywood and hard-board, millwork, stairs and related products
4. Windows, doors and frames
5. Garages: doors and operators
6. Hardware—builders and finish
7. Heating, ventilating and air conditioning
8. Wiring, lighting, electric fixtures, electrically operated devices
9. Plumbing—fixtures and accessories
10. Prefabricated structures and structural members
11. Metal building products
12. Interior wall, floor and ceiling materials
13. Glass, glass block, glazing and roofing
14. Roofing, sheathing, siding, insulation
15. Kitchen equipment, home appliances and built-ins
16. Paint and adhesives



designed for space economy and maximum variation to suit client

Designed by
A. J. Del Bianco, Architect
 Chicago, Illinois

This efficiently arranged ranch-type home is designed to bring maximum economy of useful space. Rooms are arranged not only for shortest traffic patterns, but so that the housewife in the kitchen can easily get to either bedroom or the bathroom without passing through the dining and living areas.

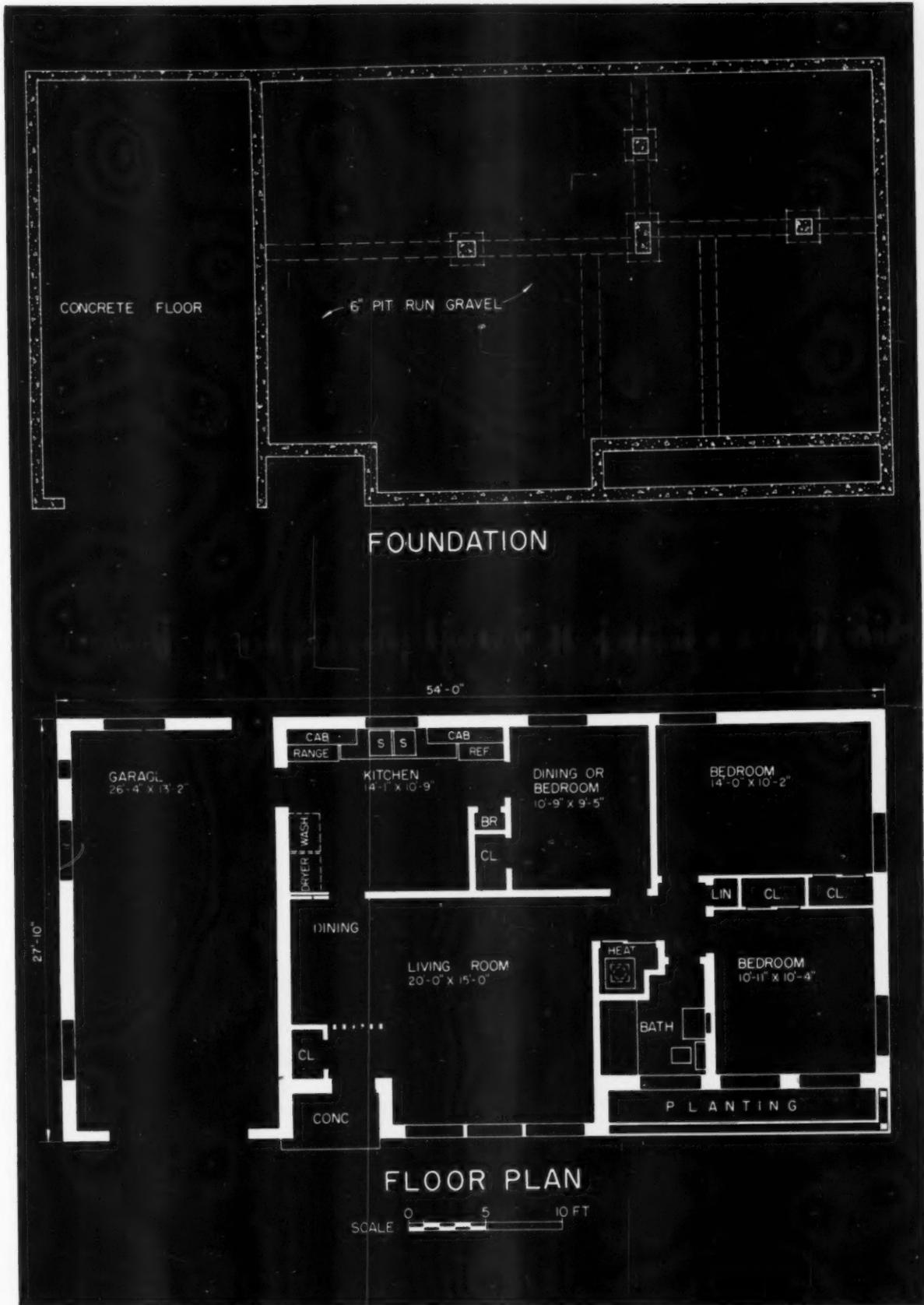
Forced warm air perimeter heating is provided with 6-inch ducts in the edges of the floor slab. This fits in economically with this particular house plan, which is designed to permit a maximum number of variations to suit site, client, and other conditions. A combination insulation and moisture barrier is provided all around the edges of the slab floor.

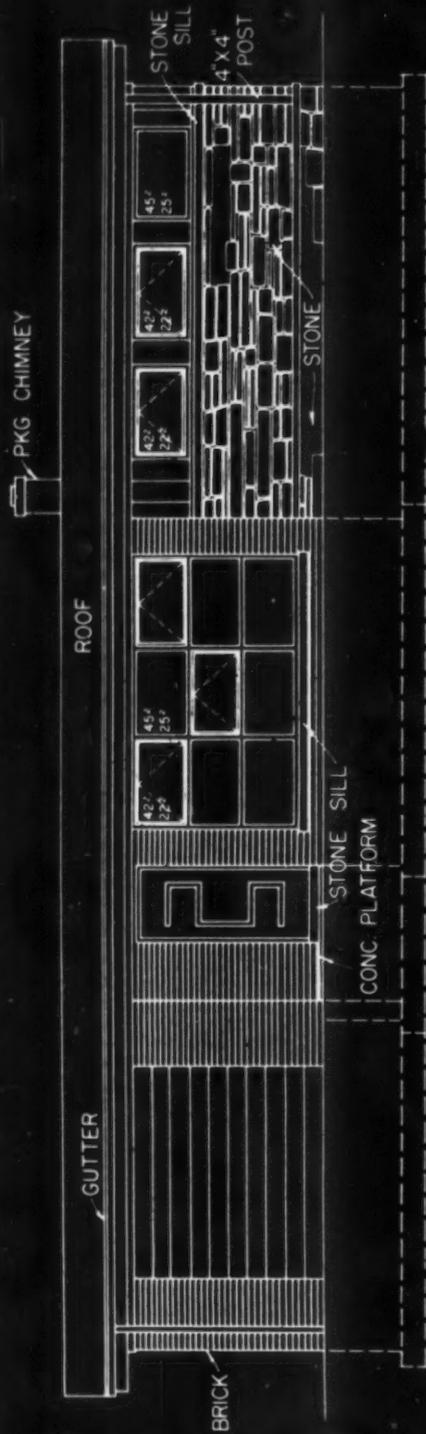
One interesting feature of this design is that the garage is unusually deep. Space is planned for either storage in the end of the garage, or the creation of a small utility room or laundry by simple partitioning.

The solid brick walls are faced on the inside with 1/2-inch gypsum board with taped joints, furred out from the brick. Heavy insulating board with built-in vapor barrier covers the ceiling.

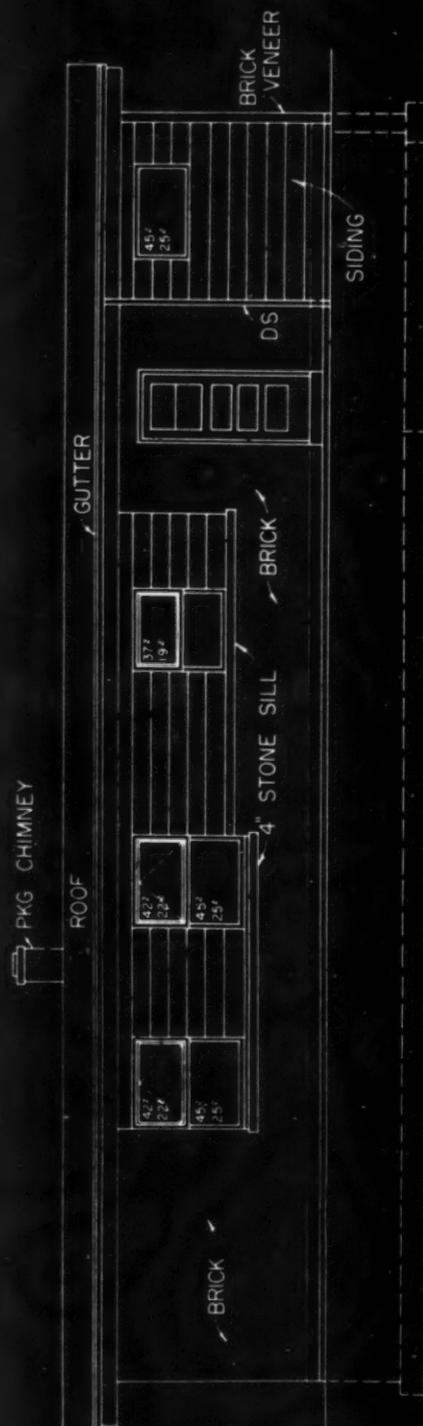
The window treatment is interesting in that every pane of glass in the house is of the same dimensions. All windows are designed for standard size single or double glazing, making installation and subsequent replacement if necessary an easy matter. The windows themselves are of various types, some being permanently fixed, and others of the awning type to open out.

Exterior siding is a combination of brick, redwood bevel siding, and either field stone or crab-orchard stone. With the numerous variations possible in room arrangement and locating the garage at either end of the house, suitable changes in siding materials easily give each home built on this plan a distinctive appearance.

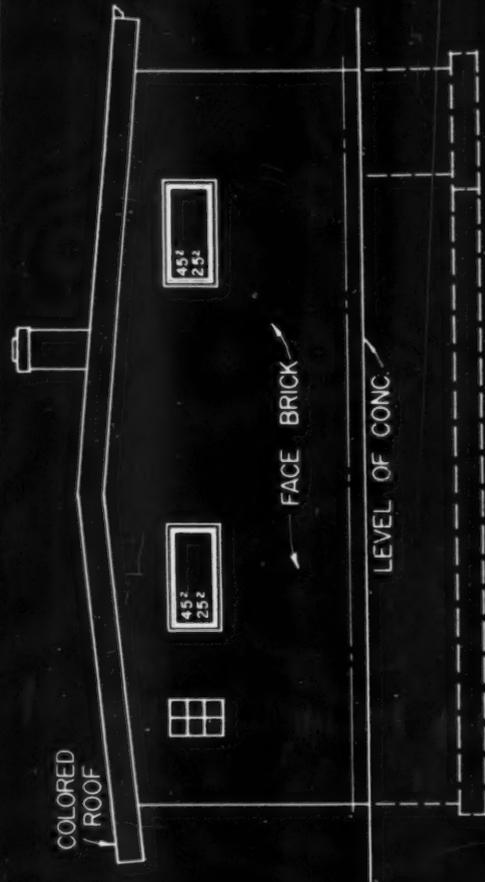




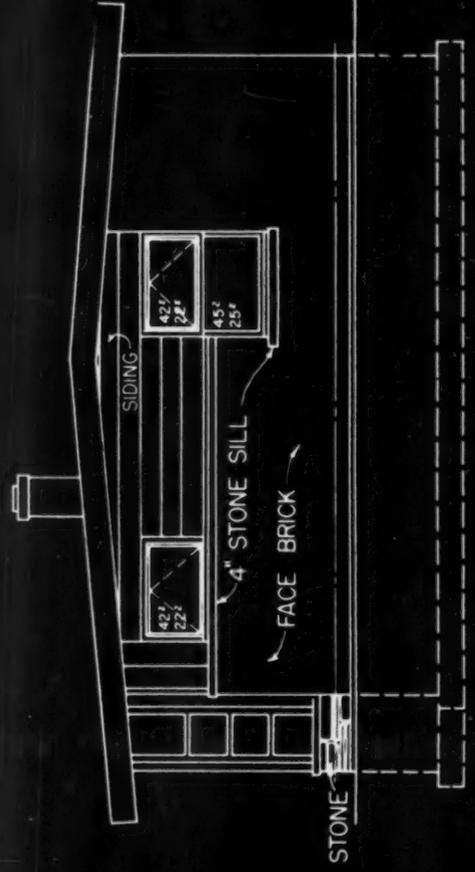
FRONT ELEVATION



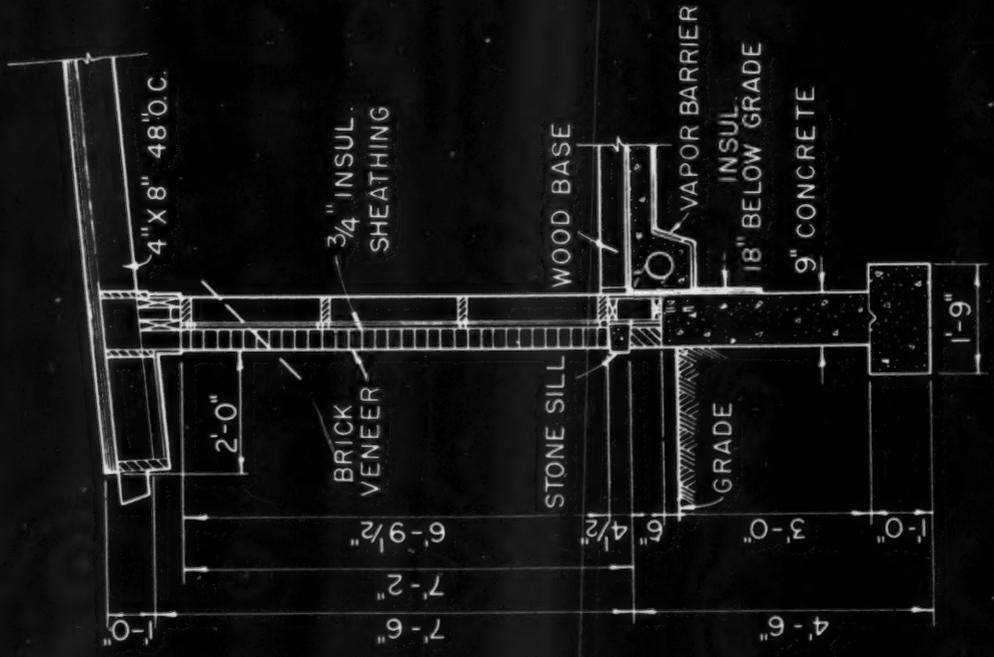
REAR ELEVATION



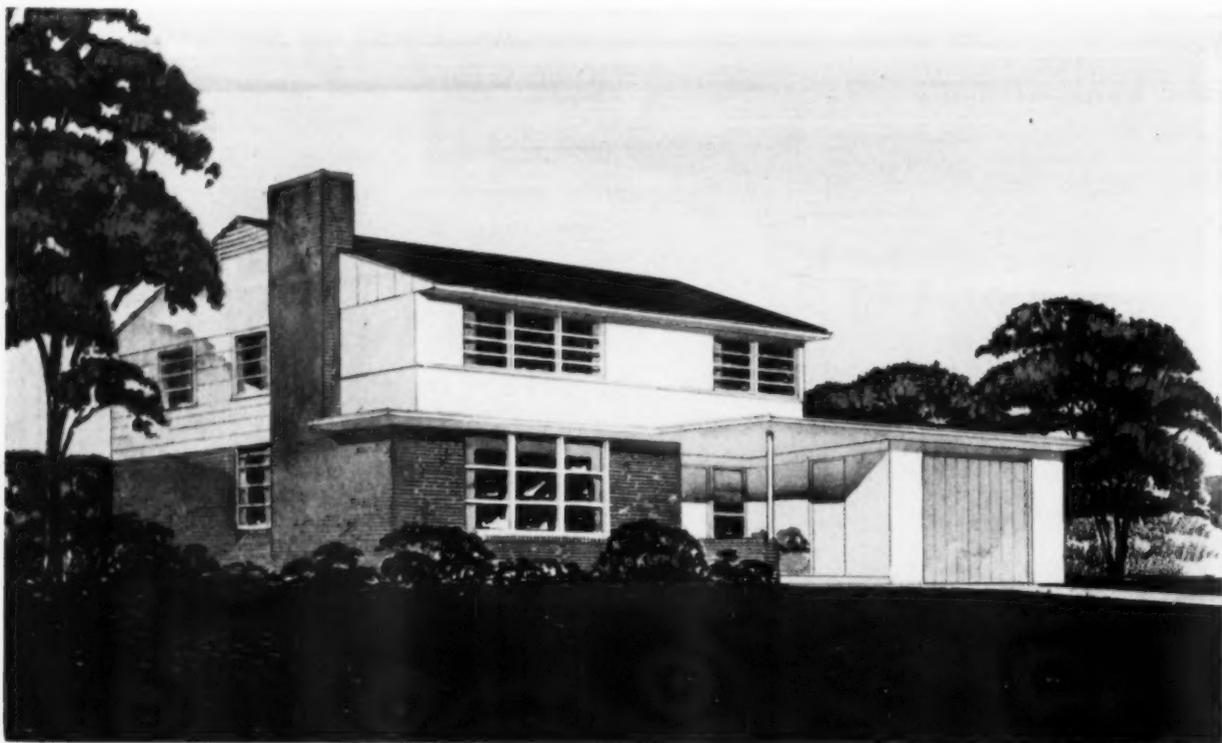
LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



TYPICAL WALL SECTION

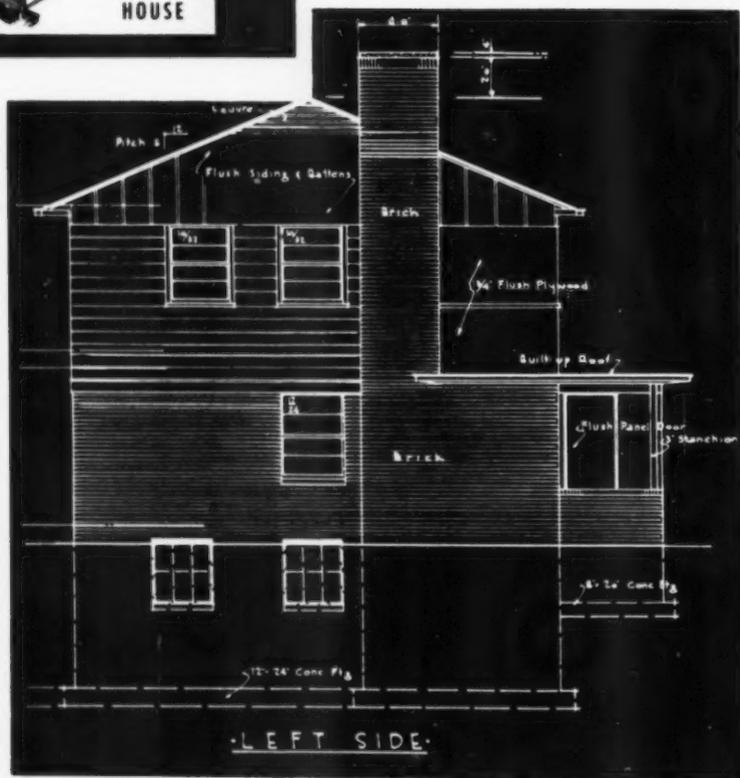


modernism in basic colonial

Designed by
Walter T. Anicka, Architect
 Ann Arbor, Michigan



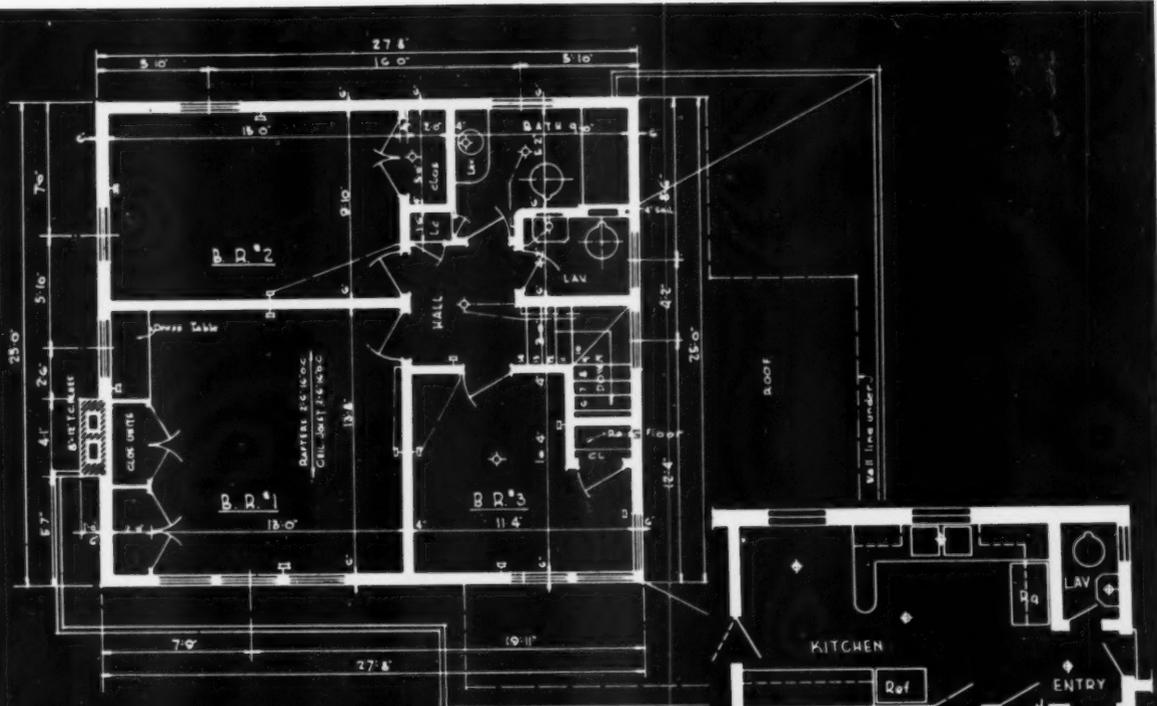
PLAN 3
 TWO STORY
 HOUSE



This basic plan satisfies all the requirements of the "two children one car" small home buyer. The architect, recognizing the advantages of the 28x25 foot two-story Colonial house in simplicity and economy of construction, maintained the over-all shell and developed modern content and design.

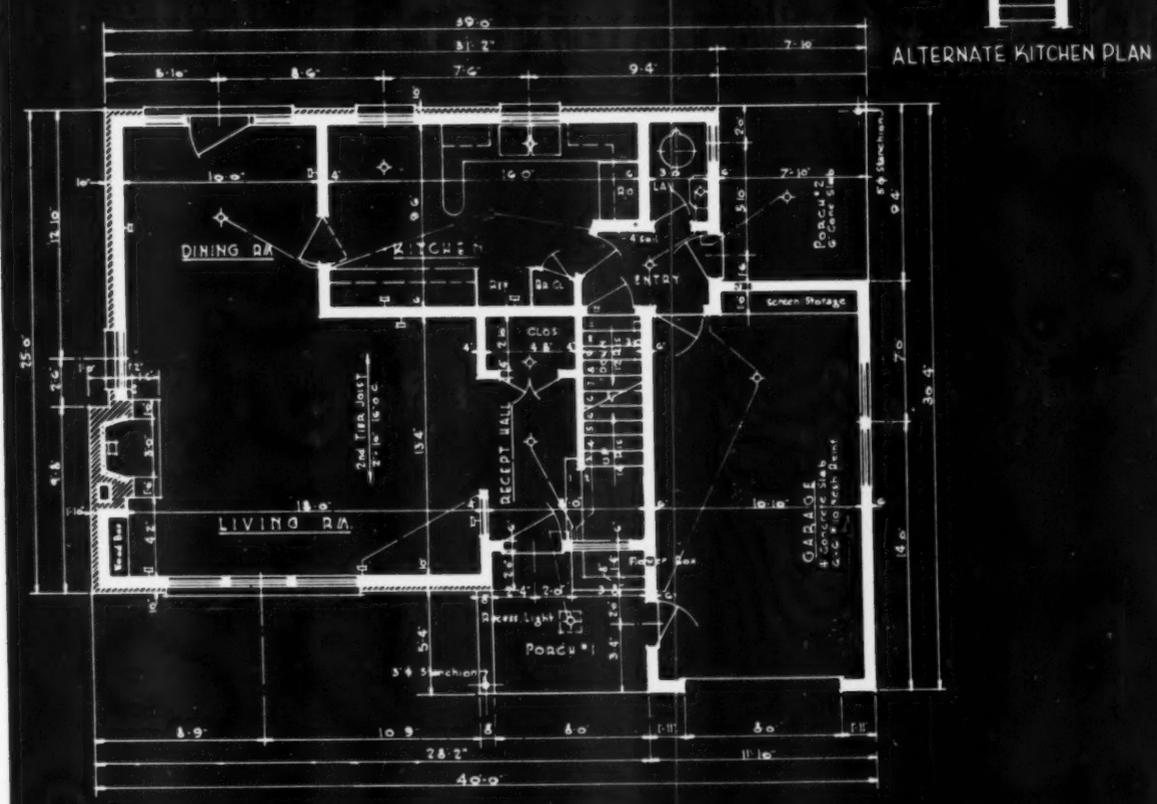
Increased glass area is a key-note; another is the open plan of living room and dining area. The forward position of the attached garage and the porch extension are tied to the front elevation by means of the continuous roof line which carries over and forms a canopy over the front windows. The flat garage roof further emphasizes the effect.

An added upstairs feature is the second lavatory; note that all plumbing is on one stack. If second floor lavatory is not required, it could become a cedar closet. Another alternative is presented on the alternative kitchen plan which would provide direct access from the front hall to the kitchen.

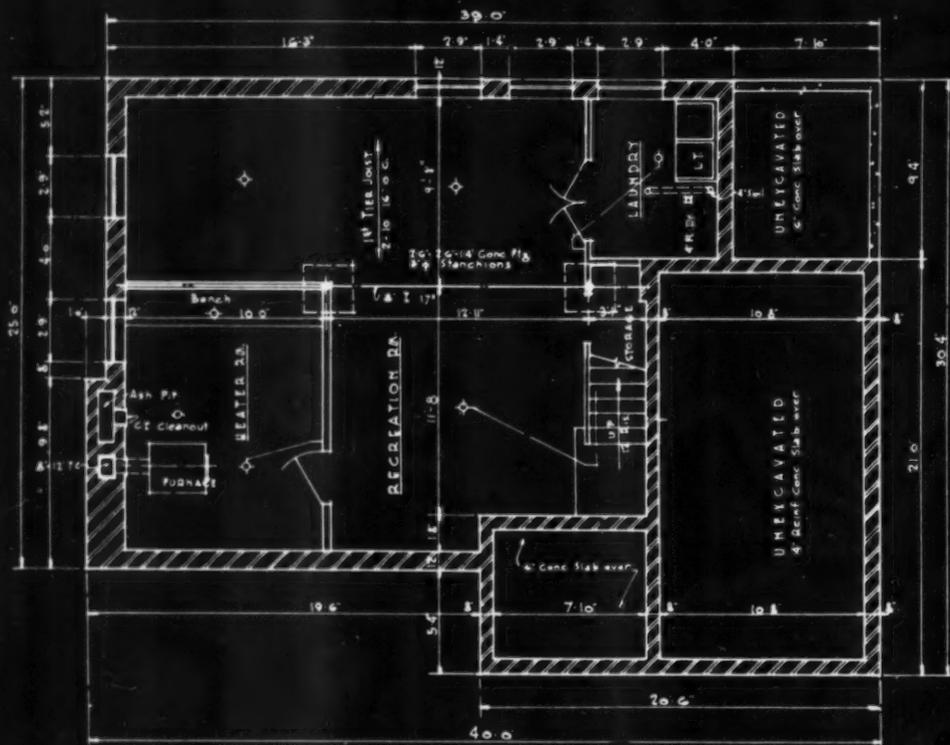


SECOND FLOOR.

ALTERNATE KITCHEN PLAN



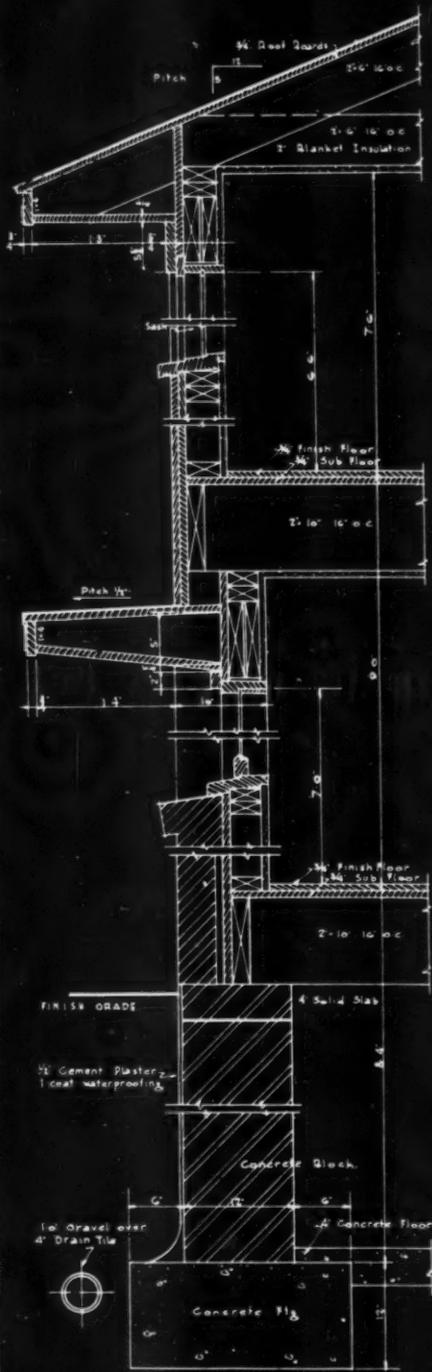
FIRST FLOOR.



· BASEMENT ·



· REAR ·



SECTION S1

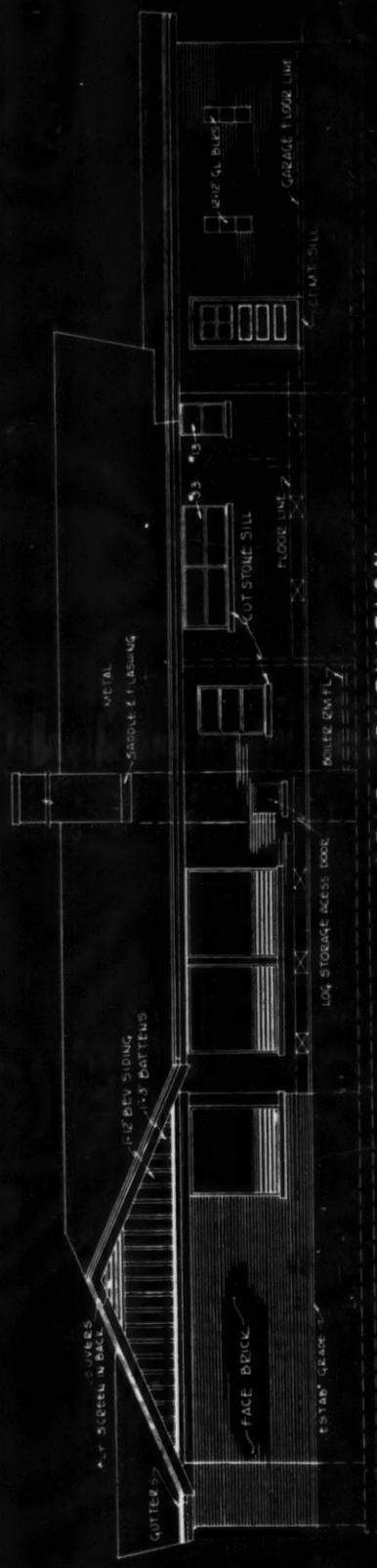


RIGHT SIDE

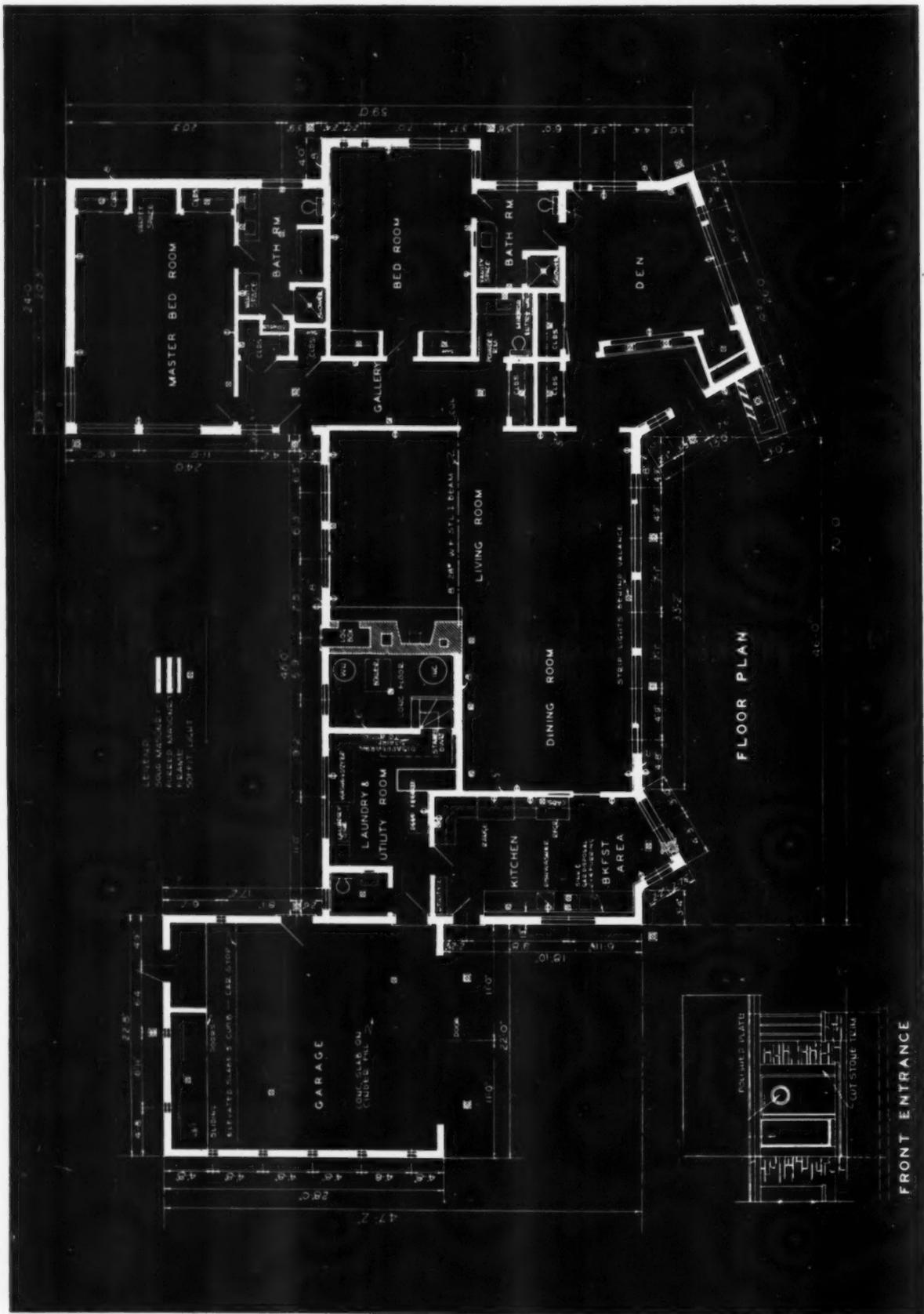
FRONT



FRONT ELEVATION

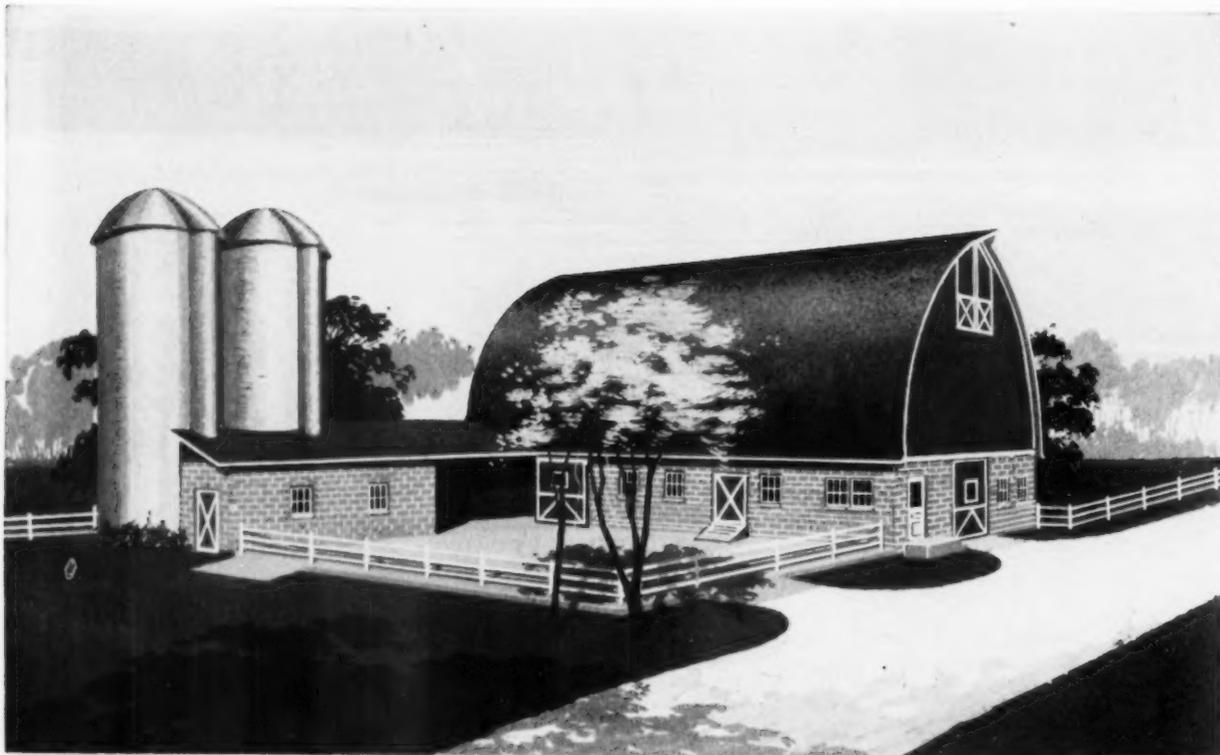


REAR ELEVATION



FLOOR PLAN

FRONT ENTRANCE



Complete working drawings for this barn plan may be obtained from Midwest Plan Service, Ames, Iowa.



planned for efficient farming

Adapted from Midwest Plan No. 72310
The Midwest Plan Service is an official, self-supporting, activity of fifteen land-grant colleges and universities with headquarters at Iowa State College, Ames, Iowa.

This modern dairy barn is planned for maximum efficiency, utilizing modern concepts of feeding areas, loafing areas, mechanical handling of feed, and convenient milking.

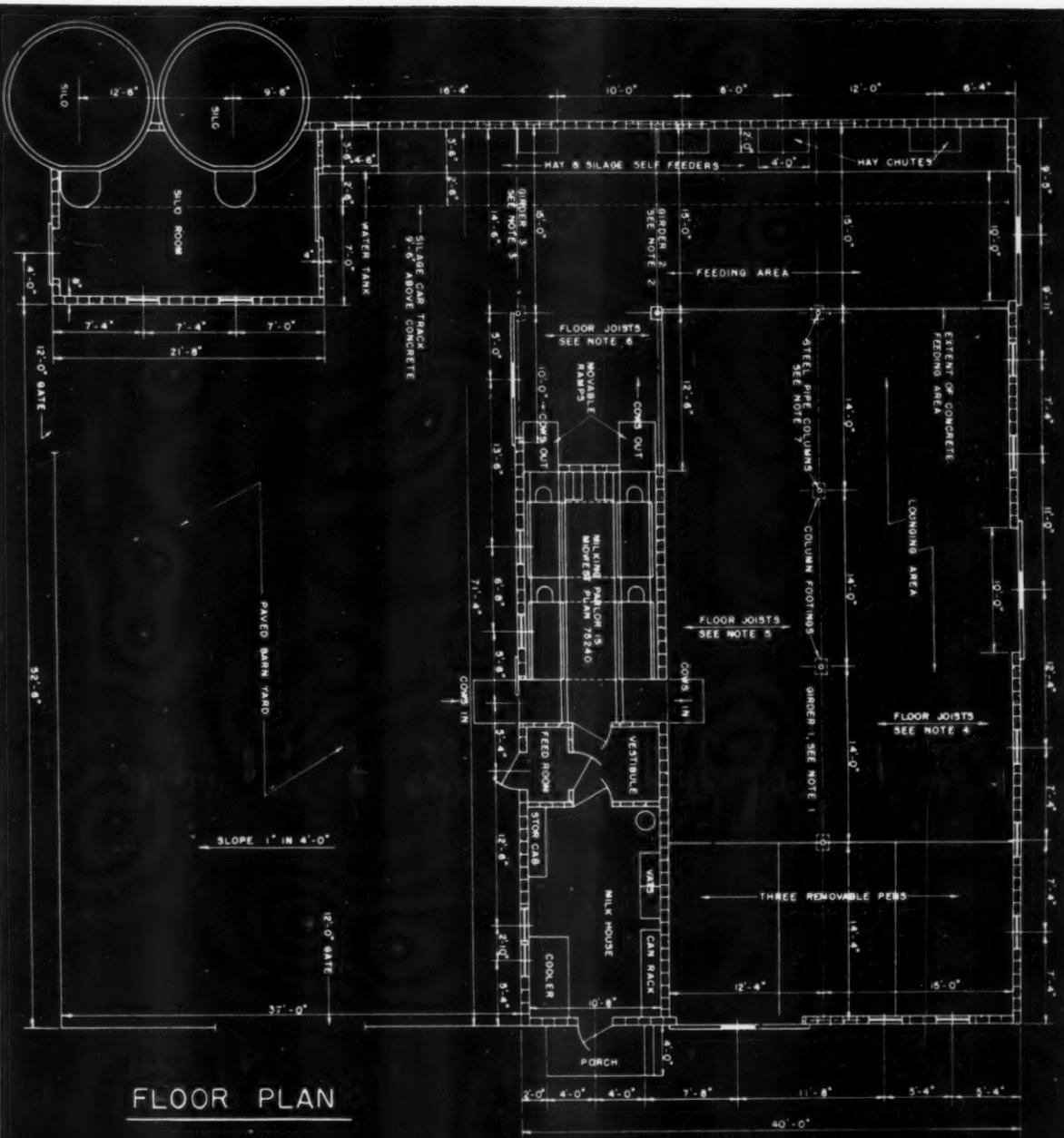
Concrete footings and foundations support concrete block walls which bear 2 x 12 rough cut joists for the loft. The lines of the roof are supported with interior trusses arranged to give maximum open storage space, as well as by interior cantilever hay and wind brace.

Loft areas to segregate kinds of feed have wire fence partitions to allow adequate ventilation. Space is provided for straw and chopped hay storage, with drop chutes located above feeding areas which are also serviced by conveyors from the silos.

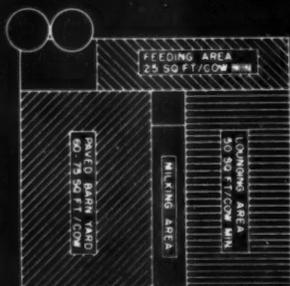
The milking parlor and milk house have a concrete floor elevated above the earth floor of the main pens and loafing areas. Milking parlor is reached by gentle ramps which guide the cows through the milking stalls and out the end of the milking parlor through similar movable ramps. The convenient milkhouse provides ample space for storage and cooling facilities.

Two concrete silos are provided to give ample storage for silage, with provision in the plan for mechanical conveyance of silage to the hay and silage self-feeders located below the hay chutes.

Three spacious and removable calving pens are also provided for, as are a paved barn yard, concrete floor in feeding area for easy cleaning, and easily operated hay doors to the loft.



FLOOR PLAN



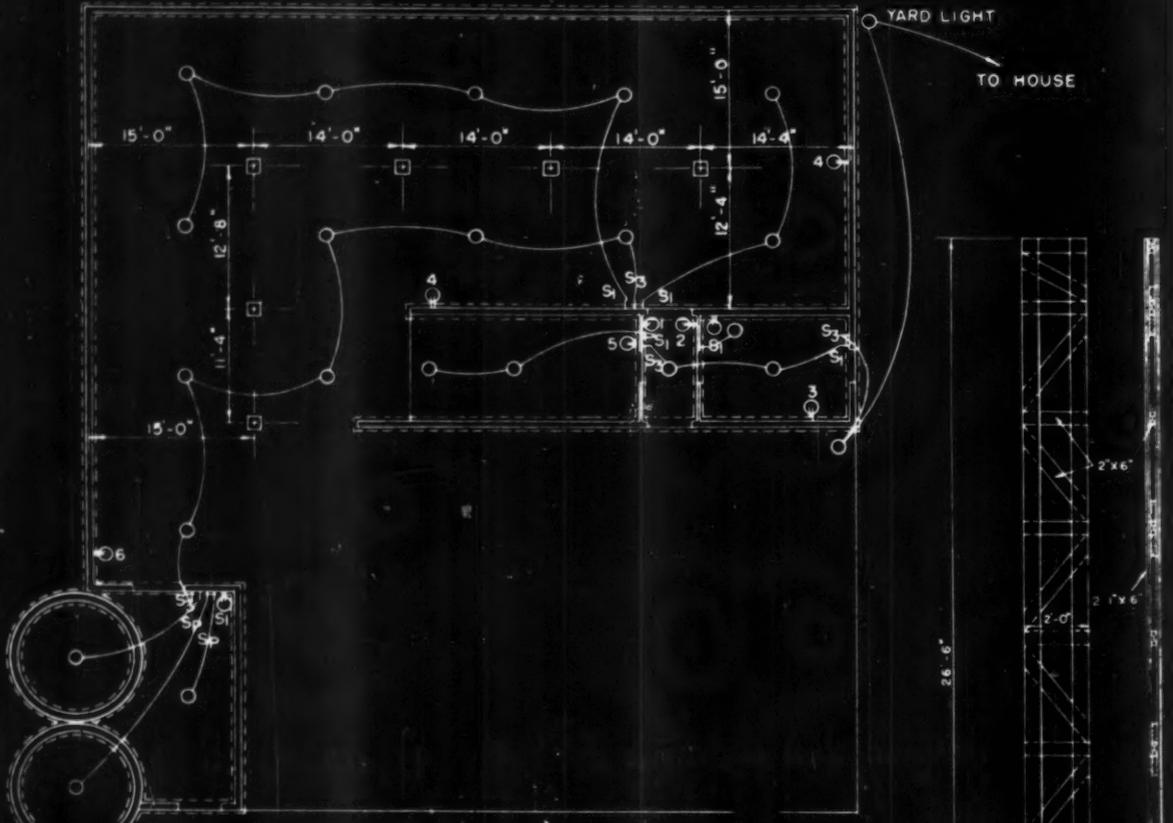
PLAN SHOWING AREAS

NOTE BALED HAY (8 PER CU FT)

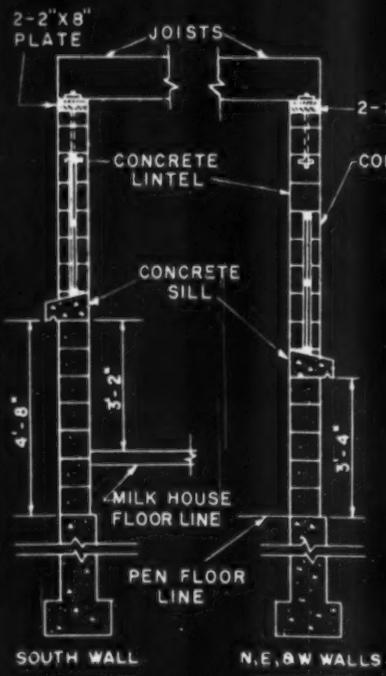
- 1 GIRDER *1 - 10" x 5 3/4" WF - 29" I BEAM
OR 10" x 4 3/4" STD - 35" I BEAM
- 2 GIRDER *2 - 10" x 5 3/4" WF - 25" I BEAM
OR 10" x 4 3/4" STD - 25" I BEAM
- 3 GIRDER *3 - 10" x 5 3/4" WF - 25" I BEAM
OR 10" x 4 3/4" STD - 25" I BEAM
- 4 JOIST *4 - 2" x 12" x 16" - 16" O.C.
- 5 JOIST *5 - 2" x 12" x 14" - 16" O.C.
- 6 JOIST *6 - 2" x 12" x 12" - 16" O.C.
- 7 4" STEEL PIPE COLUMN

NOTE CHOPPED OR LOOSE HAY (6 PER CU FT)

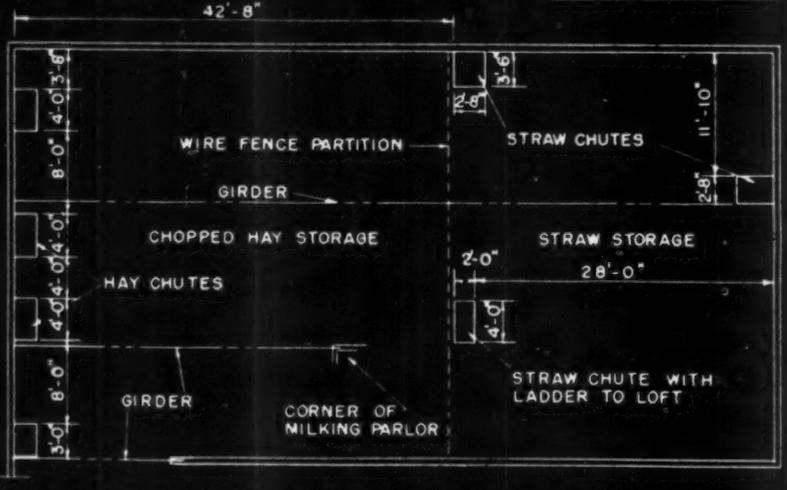
- 1 GIRDER *1 - 6 - 2" x 12" - POSTS 12" O.C.
 - 2 GIRDER *2 - 6 - 2" x 12" - POSTS 15" O.C.
 - 3 SAME AS *2
 - 4 JOIST *4 - 2" x 10" x 16" - 16" O.C.
 - 5 JOIST *5 - 2" x 10" x 14" - 16" O.C.
 - 6 JOIST *6 - 2" x 10" x 12" - 24" O.C.
 - 7 3" STEEL PIPE COLUMN
- ABOVE SPECIFICATIONS CALL FOR ROUGH CUT MATERIAL AND UNIT STEEL STRESSES PERMITTED BY A.I.S.C. SPECIFICATIONS



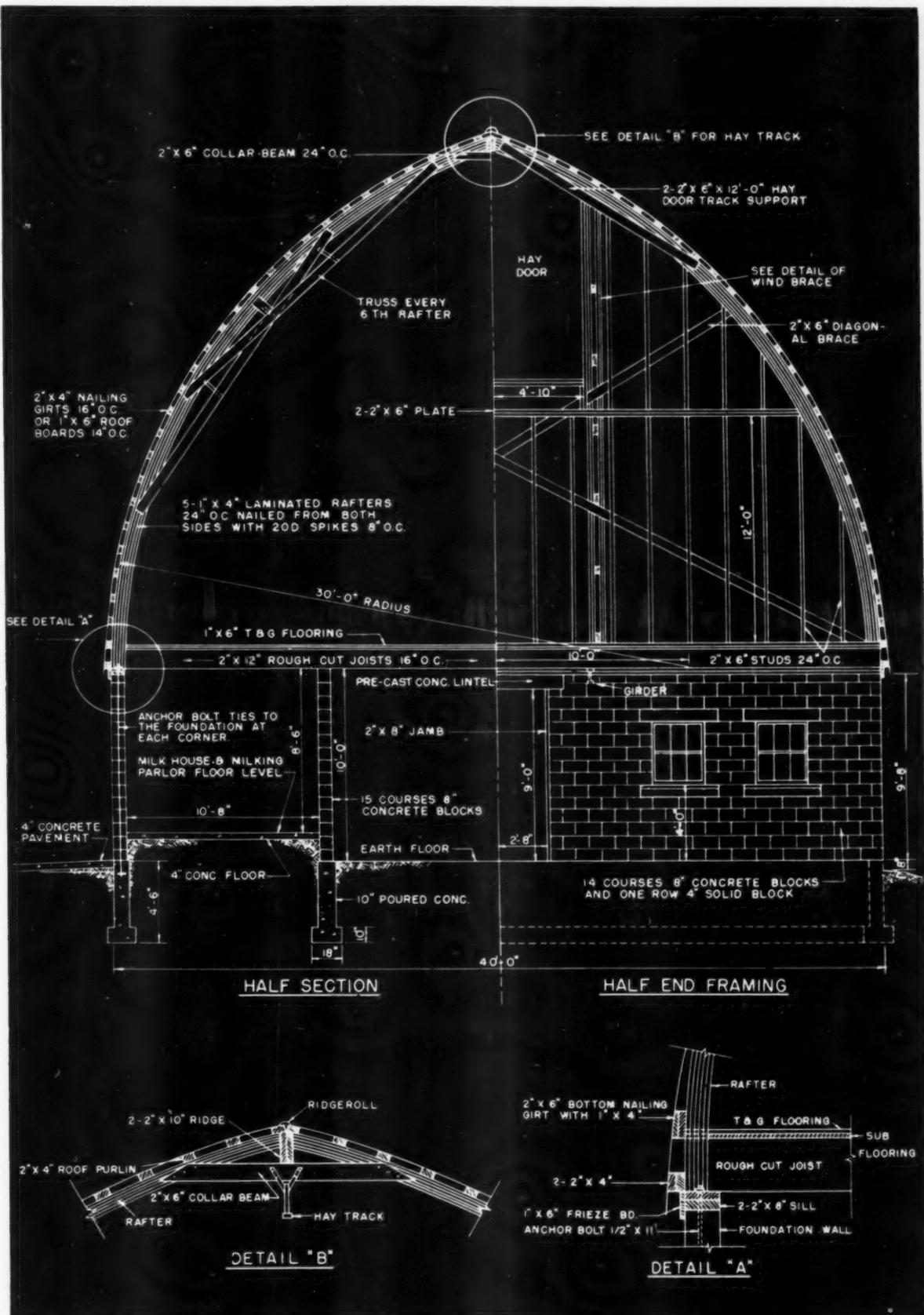
WIRING, FOOTING & FOUNDATION

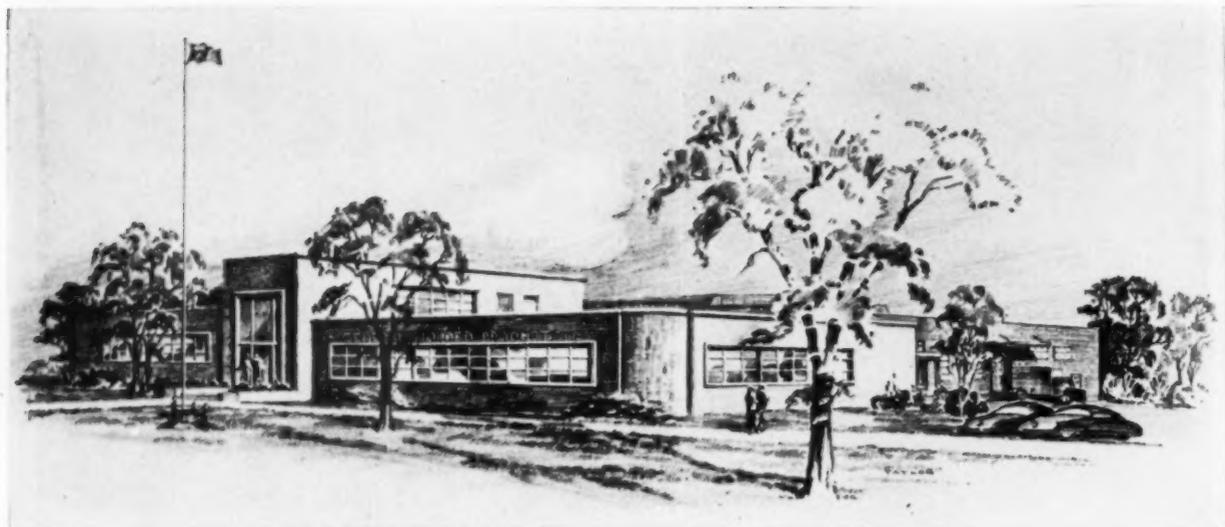


TYPICAL WALL SECTIONS



LOFT FLOOR PLAN





building the plant around the manufacturing process

Designed by
Holsman, Holsman, Klekamp, and Taylor, Architects
 Chicago, Illinois

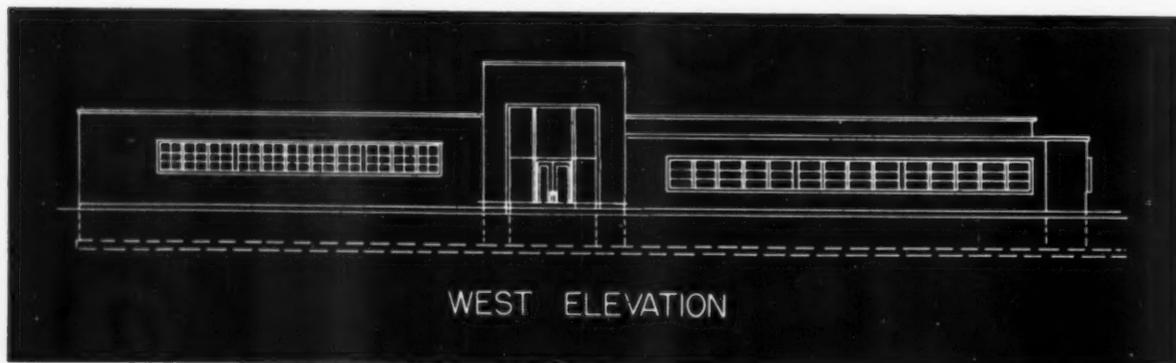
This compact, modern factory building, designed for a molded plastic products manufacturer, combines a number of interesting architectural features. With over-all dimensions of approximately 100 x 90 feet, it incorporates a floor plan for efficient manufacturing operations with flexibility for changes in production layout plus future plant expansion by building additions in the future.

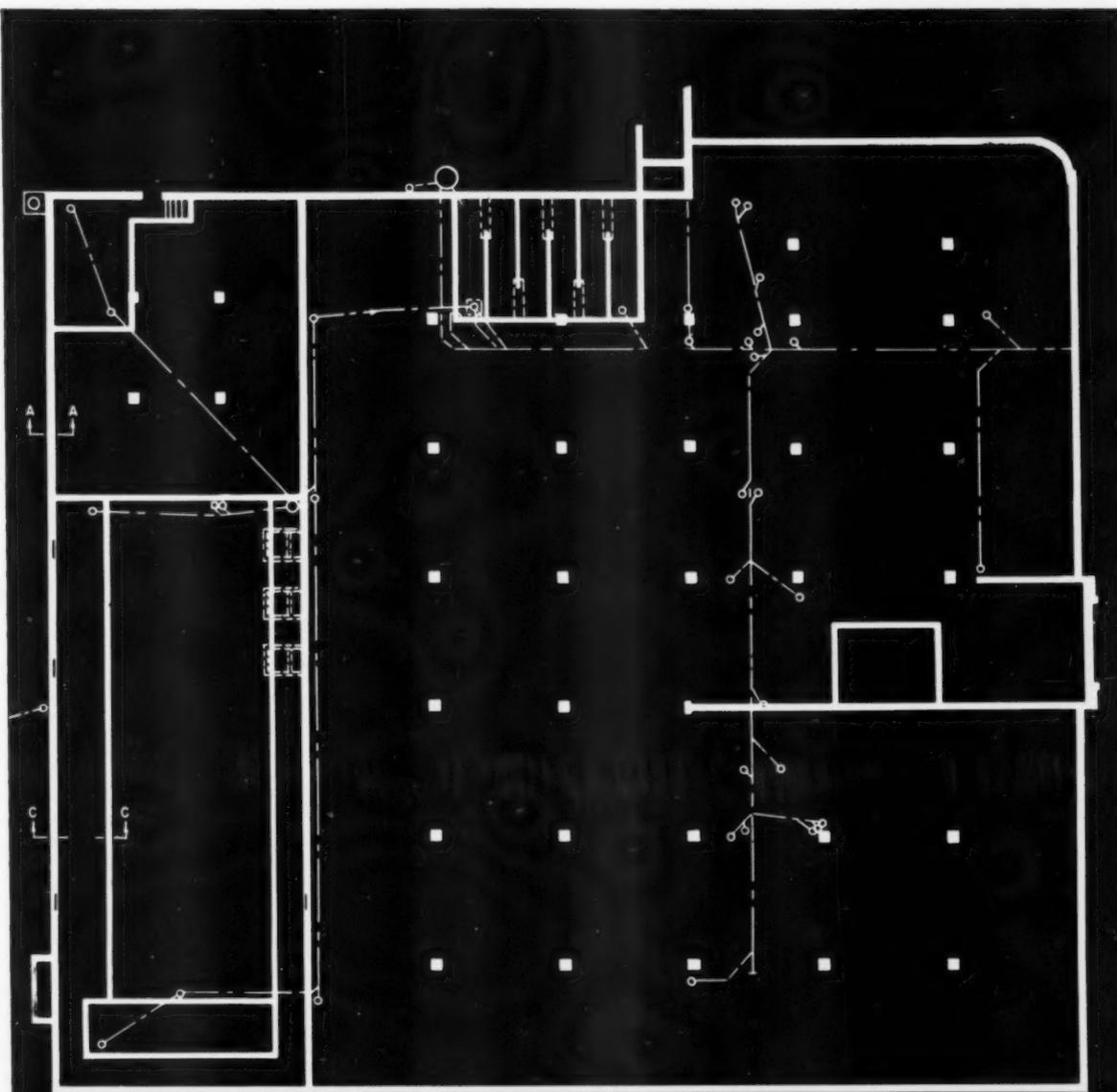
Built around the operations of the client, foundations and footings support a massive concrete slab floor and brick and concrete walls with attractive face brick.

The offices are completely air conditioned, heating throughout being provided by a forced hot water system using convectors. An employees' lunch and recreation room is provided in the upper deck mezzanine over the lobby and main entrance. This two-level section of the building not only adds interest to the ground-hugging horizontal lines of the elevation, but aids structurally in creating two levels of roof to effect greater headroom in the tool and die room and portions of the molding room and machining and assembly departments.

Long-span overhead trusses and joists were used to create wide areas of clear floor space. Large window areas in walls are supplemented by semi-clearestory window treatment in roof elevations to simplify interior lighting.

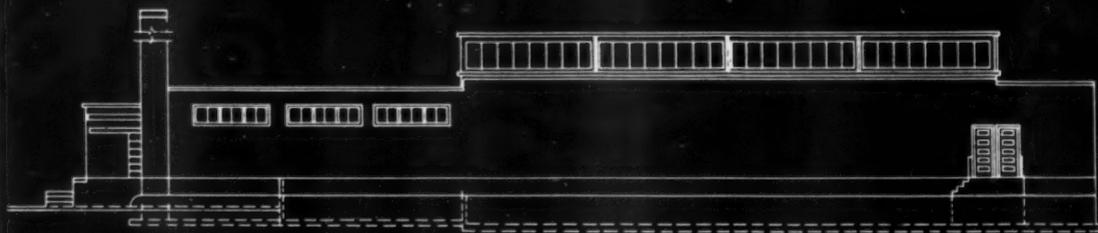
A structure such as this presents a number of challenges to the small builder, but the modern techniques and materials at his disposal make it possible for him to construct buildings of this type after careful designing and engineering around the production processes and operations of the company they are intended to house.





FOUNDATION & BASEMENT PLAN

SCALE: 0 5 10 20 FT.

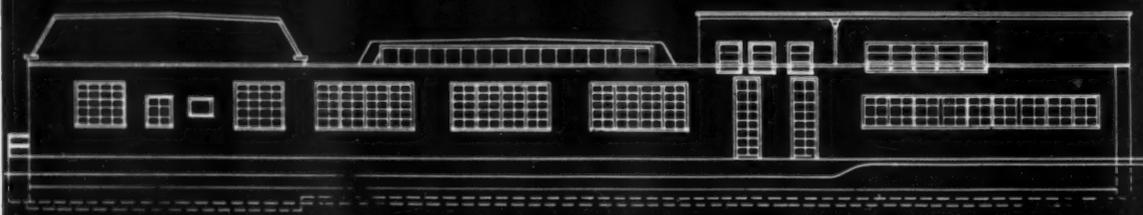


EAST ELEVATION

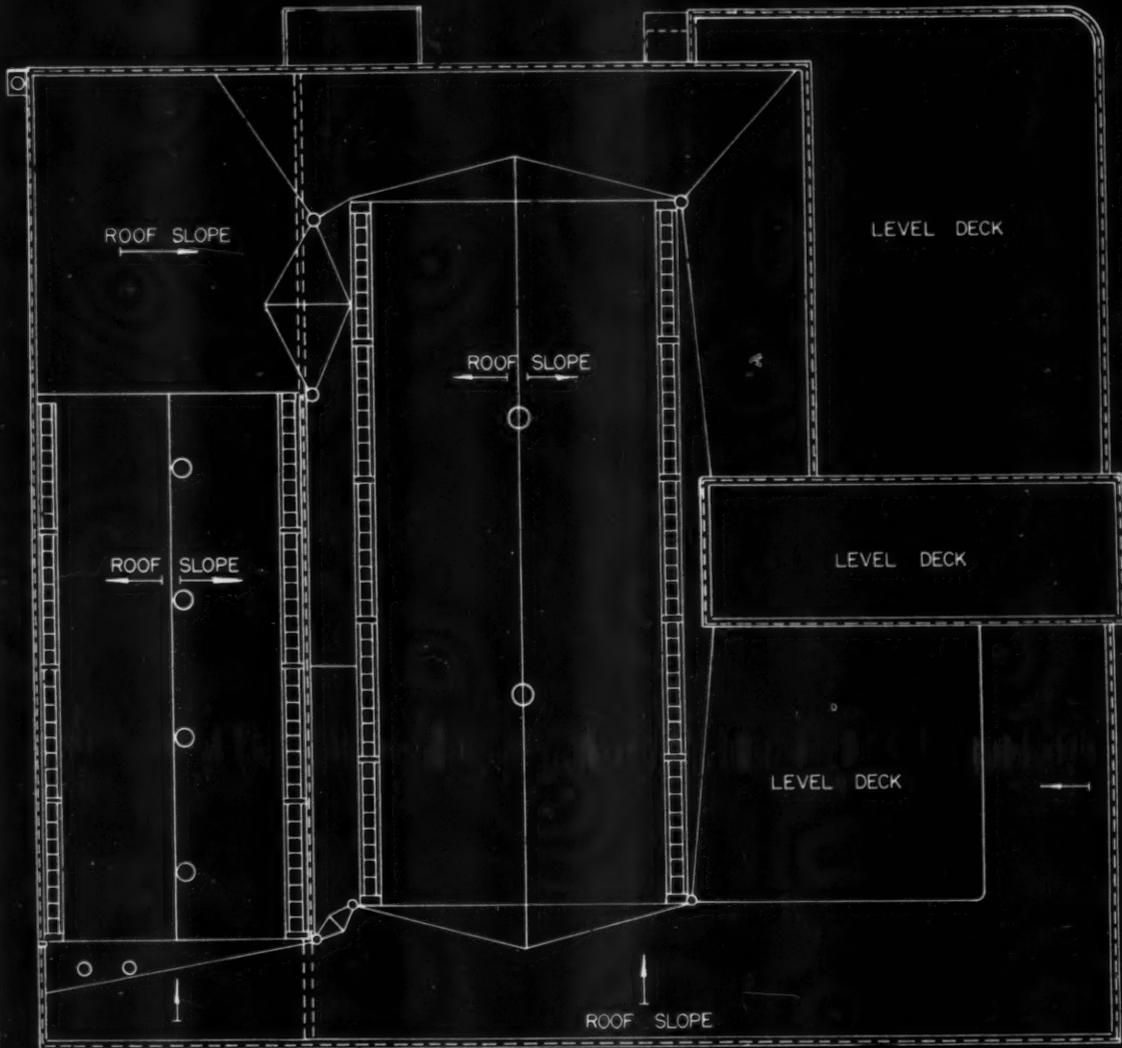


FIRST FLOOR PLAN

SCALE: 0 5 10 20 FT.

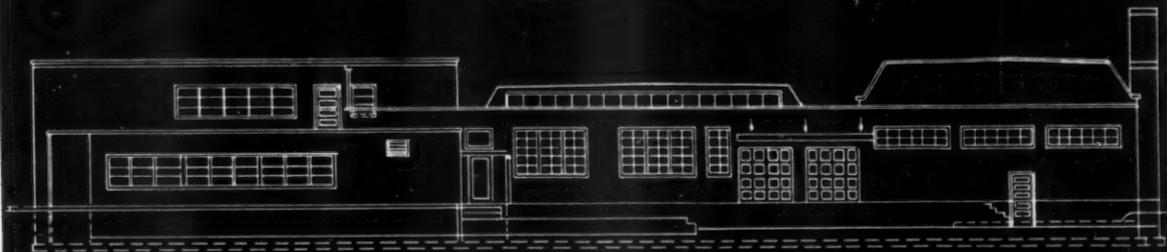


NORTH ELEVATION

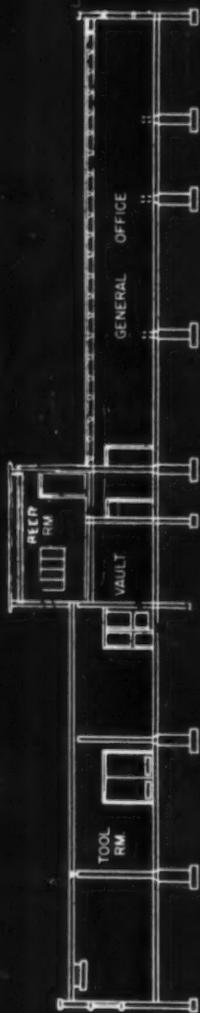


ROOF PLAN

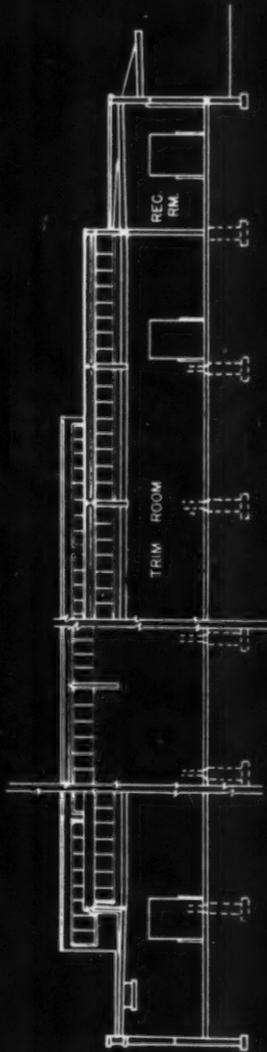
SCALE: 0 5 10 20 FT



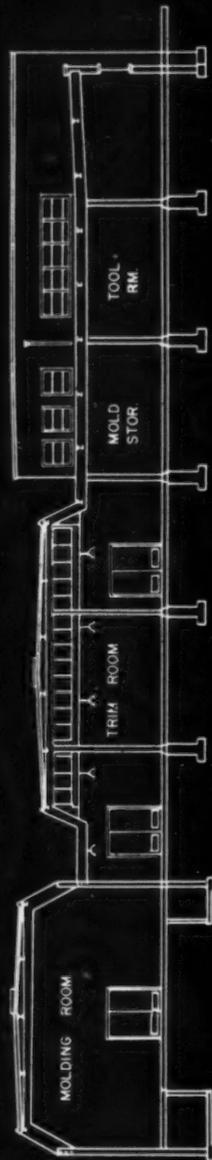
SOUTH ELEVATION



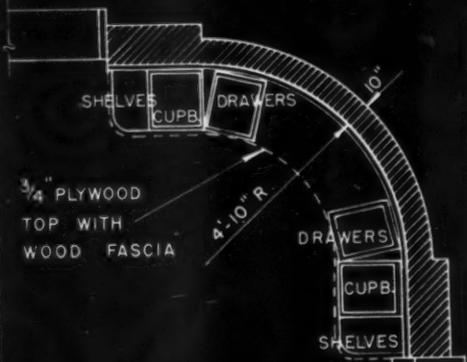
SECTION A-A



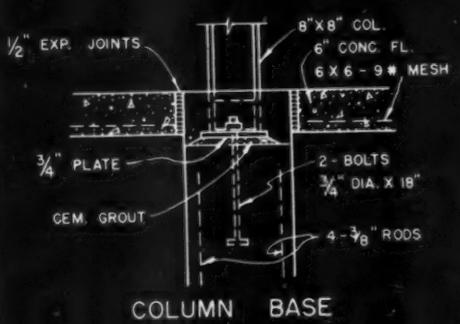
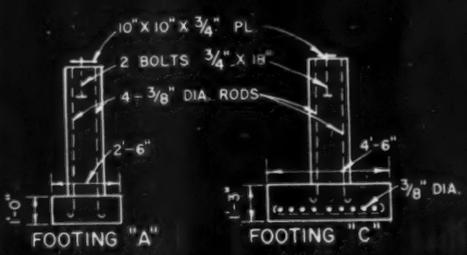
SECTION B-B



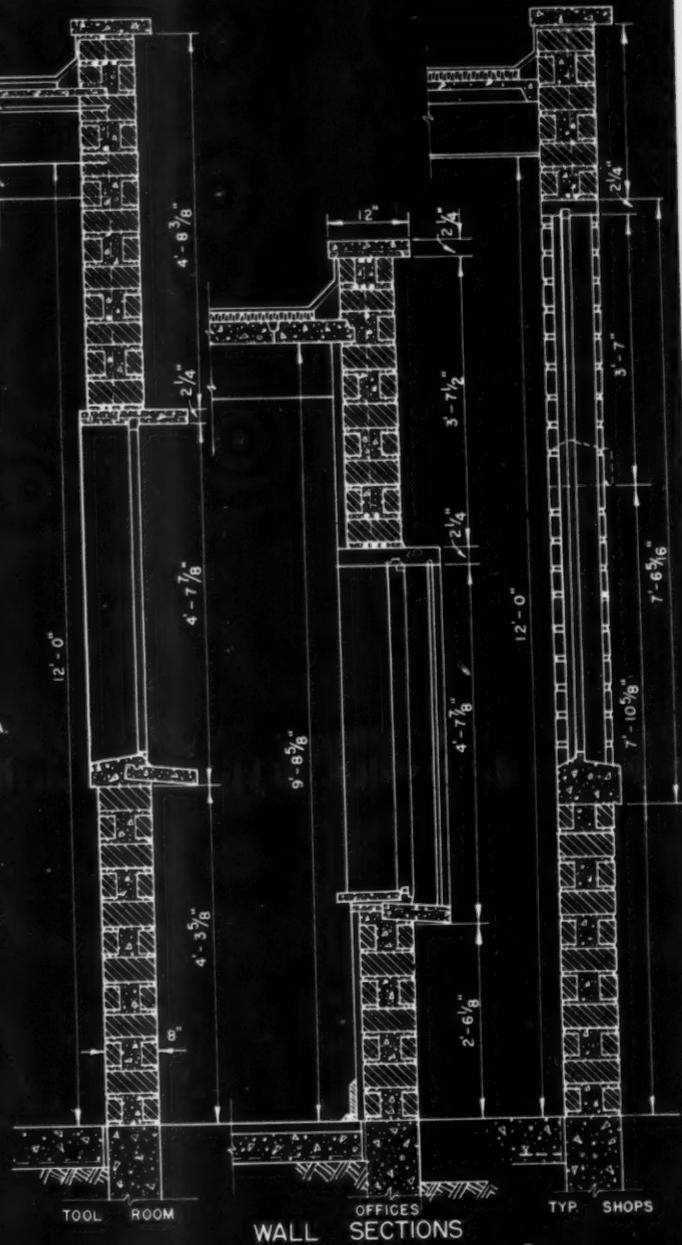
SECTION C-C



PLAN OF DETAIL "A"



COLUMN BASE





windows and entrances make customers "stop and shop"

Designed by
Edwin H. Mittelbush & Edward M. Tourtelot, Jr., Architects
 Chicago, Illinois

Because this modern store building was designed to be subdivided into either two or three stores, 3 separate heating plants, toilets, front entrances and rear entrances were provided in the plan. Each store is heated with a ceiling-suspended oil fired warm air heating unit with a blower. Each also has a 30-gallon domestic hot water heater.

Built without a basement, it has a 4-inch concrete slab floor laid over steel mesh. Long-span joists support the roof and give complete freedom of floor space for aisle, counter, and island display arrangement by the store tenant.

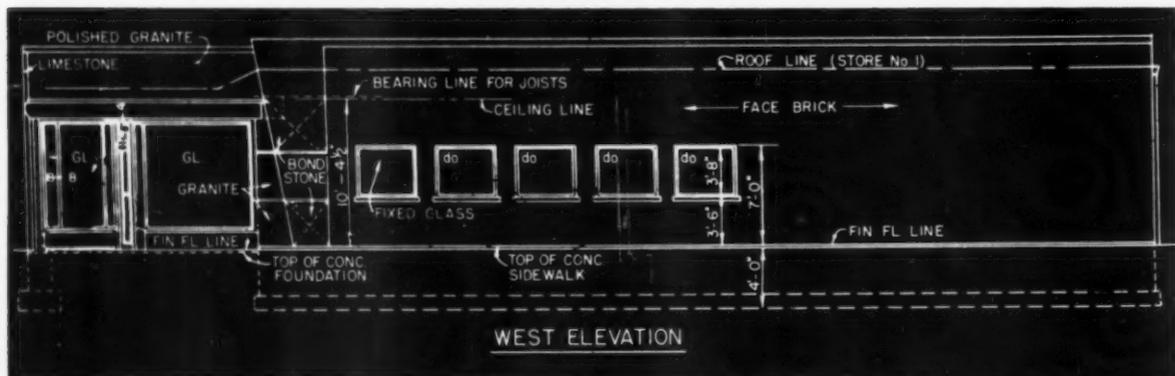
The roof decking has built-up roofing laid on top. Ceiling is metal lath and plaster, with walls also of plaster.

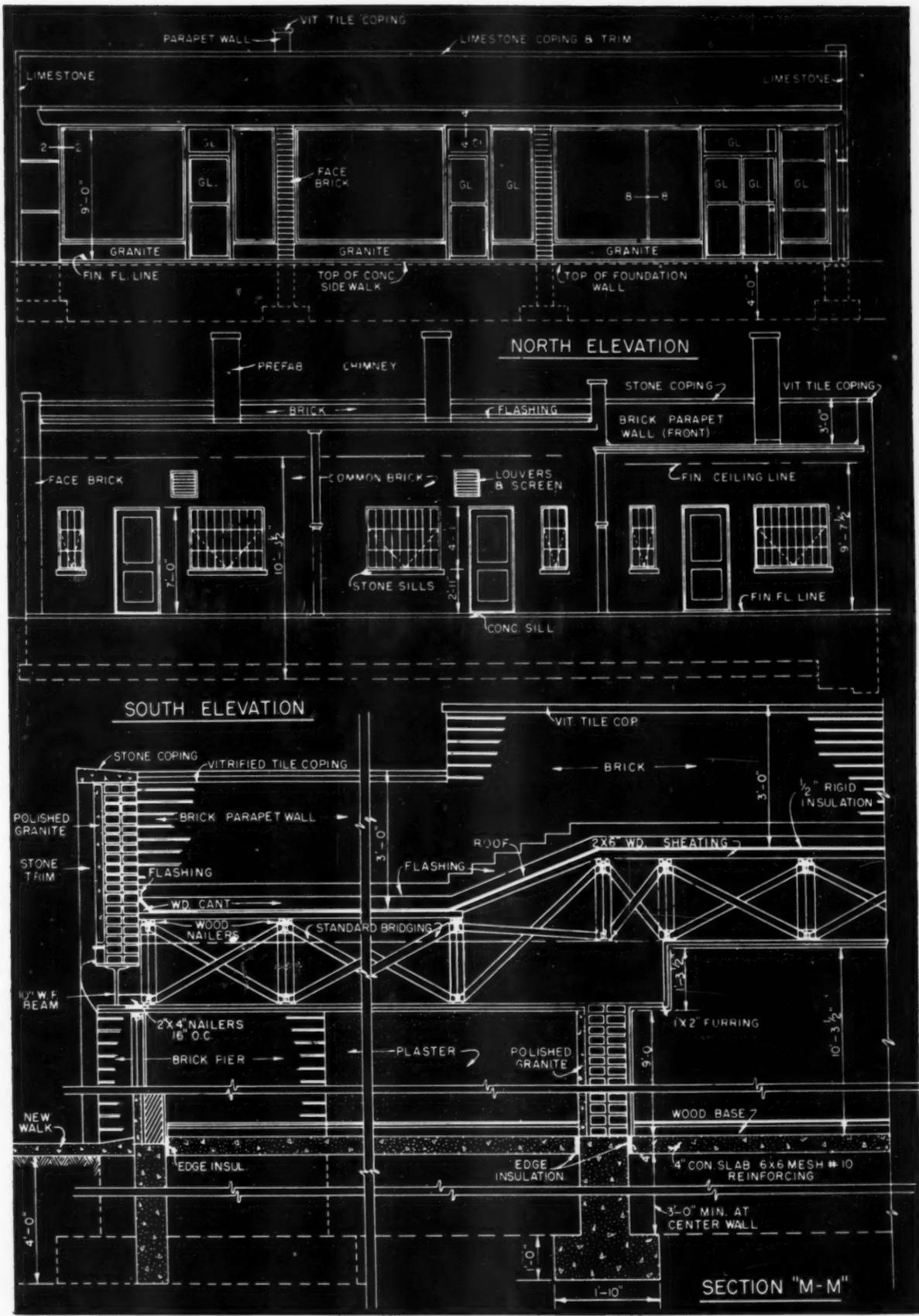
The front of the building is key-noted with the unusual corner entrance treatment which not only capitalizes on the building's corner location, but combines ease of entrance with effective display possibilities for the tenant.

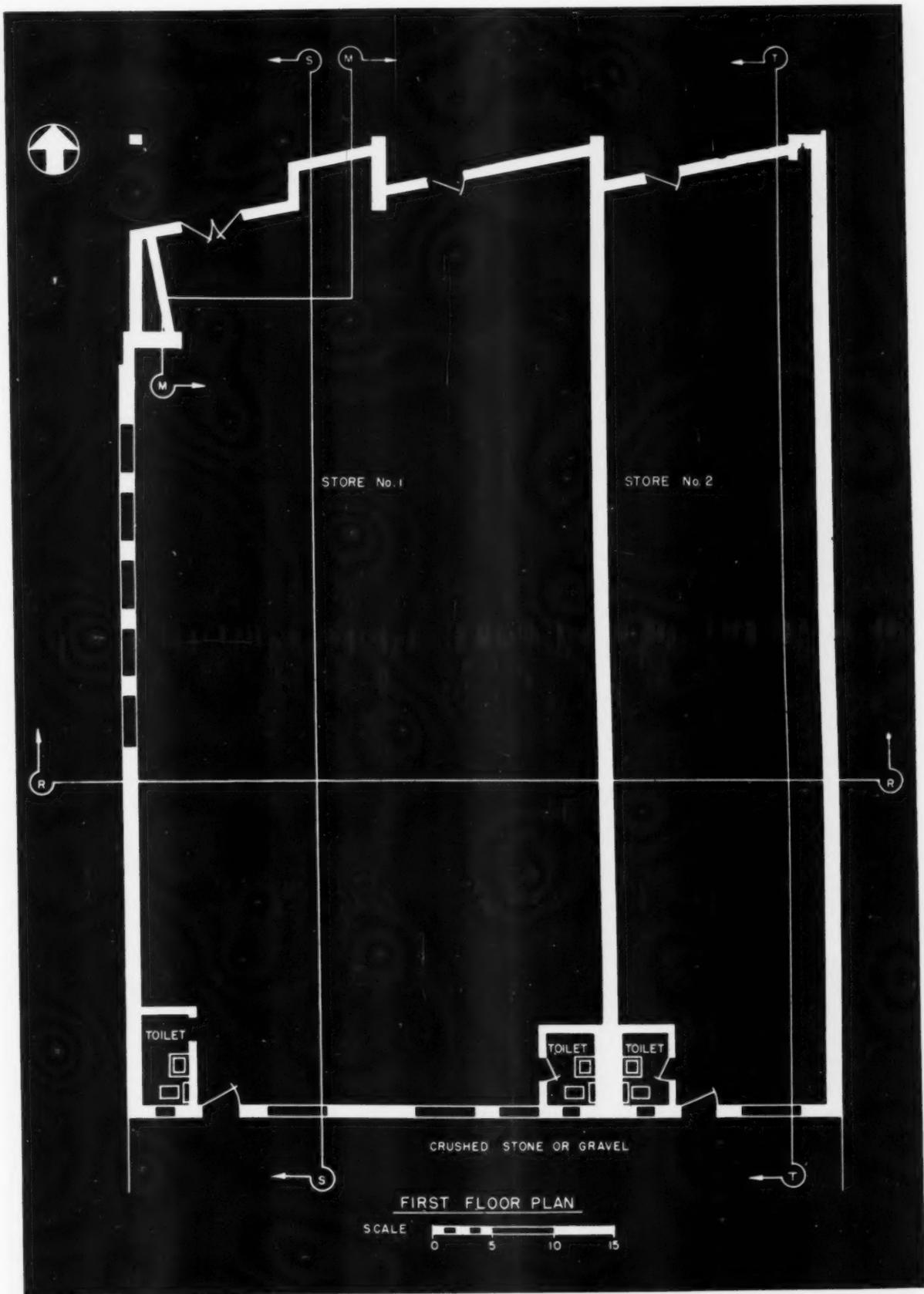
The recessed and angled front windows reduce glare and aid modern merchandising techniques of "putting the whole store in the window" for effectively inviting customers to enter the premises.

This is further enhanced by heavy plate glass and metal frames which make a pleasing contrast to the exterior face brick and polished manufactured granite facing.

Floor covering, lighting fixtures, and interior decoration are left up to the desires of the individual tenant and carried out by him, only the wiring outlets themselves being installed in the original building. Careful site planning provided ample parking area for employees' automobiles and deliveries at the rear of the building, and adjacent land provides parking space for customers.

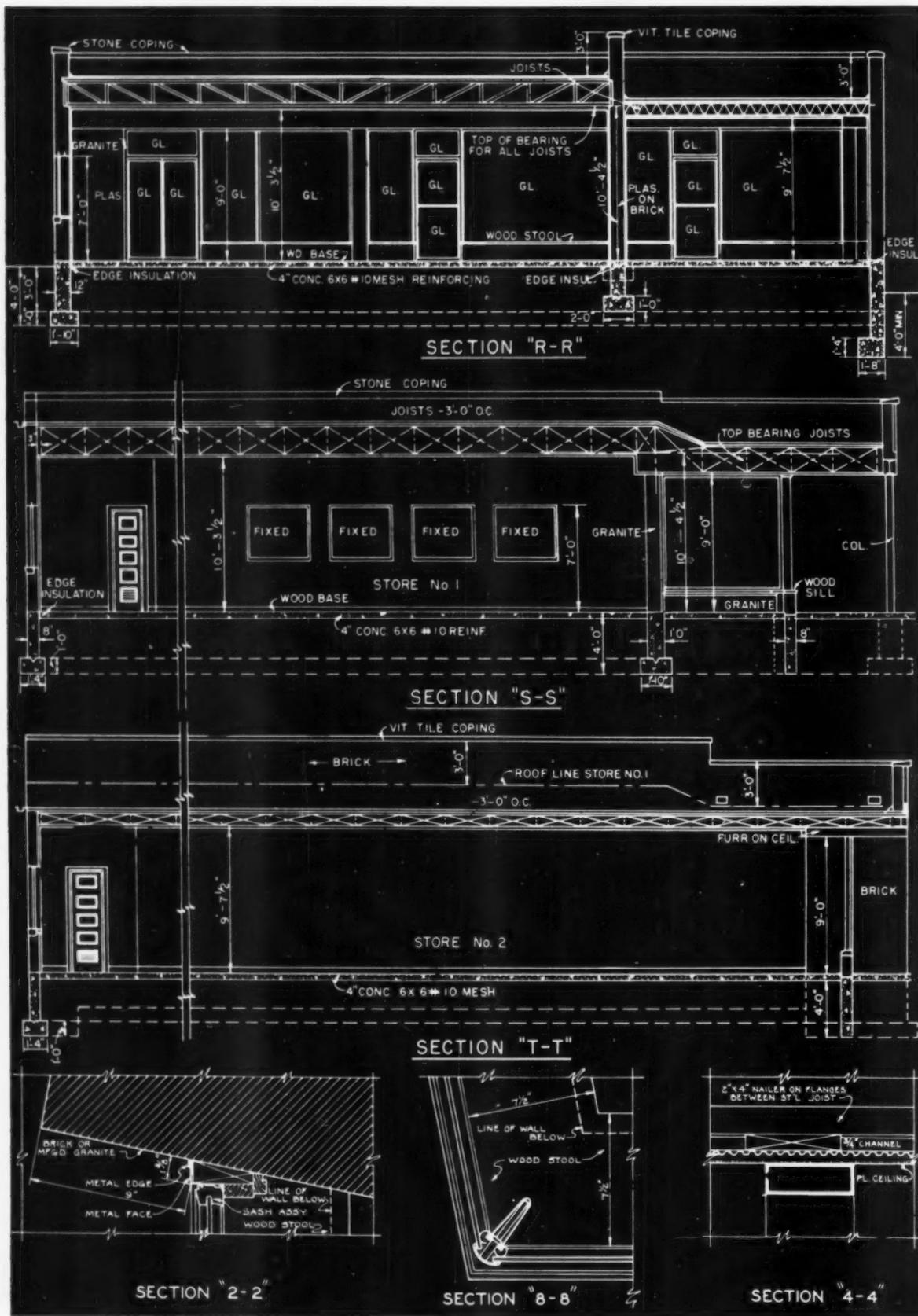




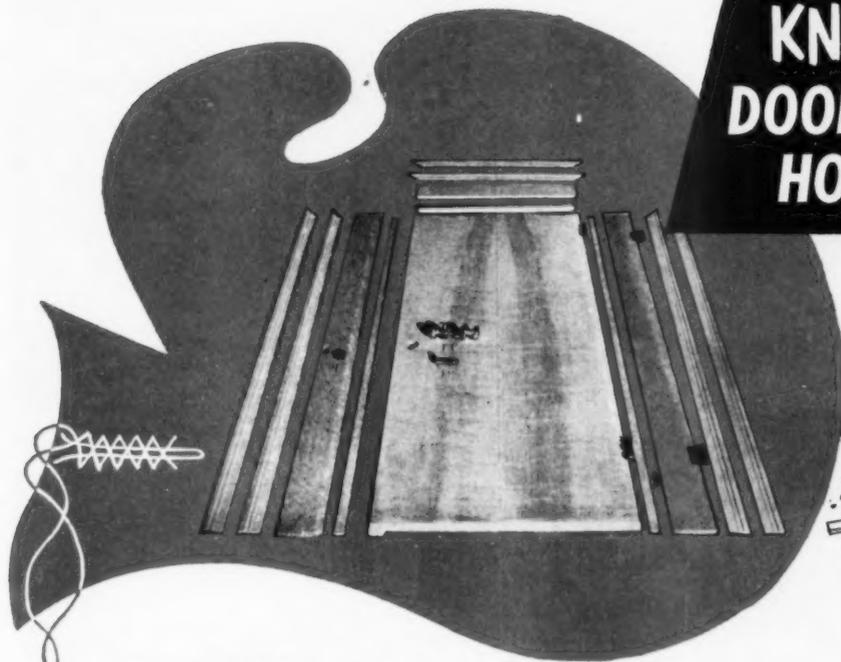


FIRST FLOOR PLAN

SCALE 0 5 10 15



KNOCK-OUT DOOR CLOSING HOLD-UPS



WITH THE NEW HASKO PACKAGED K-D UNIT

SAVE TIME—From rough opening to finished door in 40 minutes or less — it's possible with the new packaged Hasko K-D Door Unit. Everything — door drilled for lock, frame notched for header, stop cut exactly to size, trim mitered and cut to size, hinges installed on frame and door, lock set, shingles for shimming, and nails — is included in the Hasko Package. With no sawing, chiseling, planing or boring to do, the carpenter merely takes a hammer, level, and nail set to case and hang the door. Instead of four hours skilled labor cost on each door you have less than three-quarters of an hour.

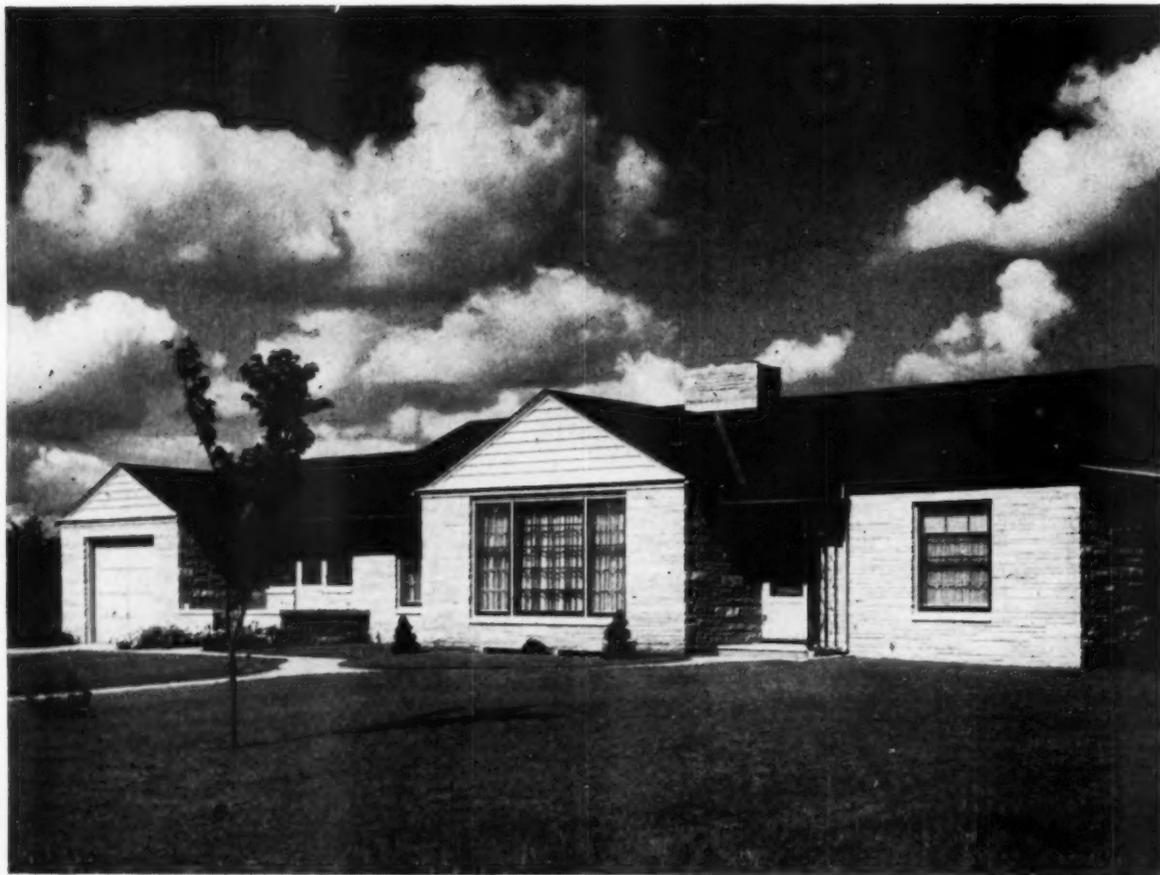
SAVE MONEY AND WASTE—Skilled craftsmen using mass production methods get factory cut precision into these units. Quality trim and that mill-made look are part of the Hasko K-D advantages. All waste lumber is absorbed in the reasonable cost of the units. Skilled workmen don't waste time running to the lumber pile, sawing, chiseling, boring and fitting. Their time can be used on more important tasks requiring their experience and know-how. The labor cost saved lowers the estimate and speeds construction time.

GET BEAUTY AND DURABILITY PROVED BY TEST—Over a million Hasko flush doors have been made and installed. Time and weather have proved their dependability. Strict factory tests maintain their quality. All Hasko doors are made of select, kiln-dried lumber and beautiful veneers permanently bonded to one another to produce the finest in quality and strength.

See Your Supplier or write Haskelite for More Information on the New K-D Unit

There's a trouble-free Hasko Door for every opening

HASKO
HASKELITE MFG. CORP.
Grand Rapids, Mich.



Allen J. Ross & Associates, Architects

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

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1910

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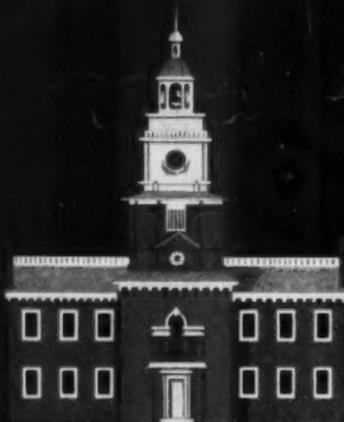
America's
Largest

DEPT. AM-2

TOPEKA, KANSAS

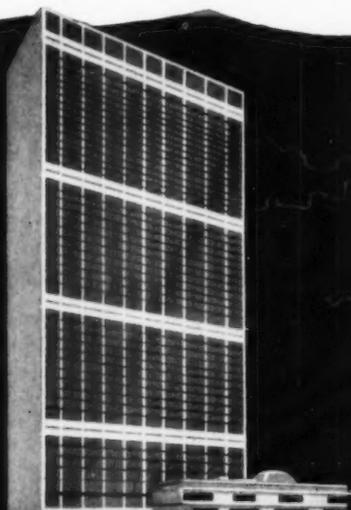
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Medusa Waterproofed White was used recently for setting and pointing the marble, for back-up brick work, and in the terrazzo in the main lobby of this international landmark.



Washington Monument

Years ago when the Washington Monument was restored, its marble joints were pointed up with Medusa White Non-Staining Portland Cement mortar. The grout was neat cement and water, of a very thin consistency.

● When architects and builders are called upon to build or restore historical landmarks the selection of materials must be on a sound basis of proved dependability. Medusa White Portland Cement, the original white cement, is one of those dependable materials that is chosen over and over again to help construct, restore and protect historical buildings like those above.

For 47 years Medusa White (plain or waterproofed) has been

used to give construction a distinctive and permanent beauty. No other cement has ever equalled its white color—a white that's diamond blue—not pink or yellowish in cast.

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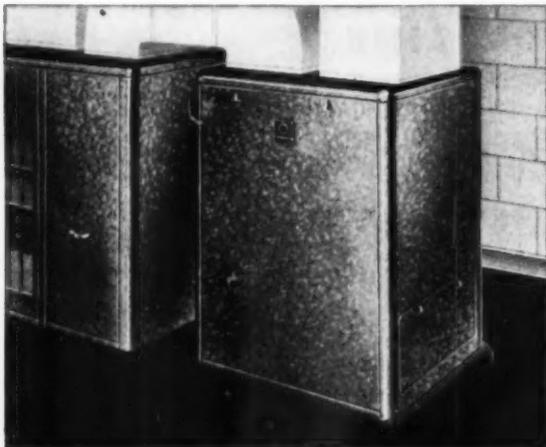
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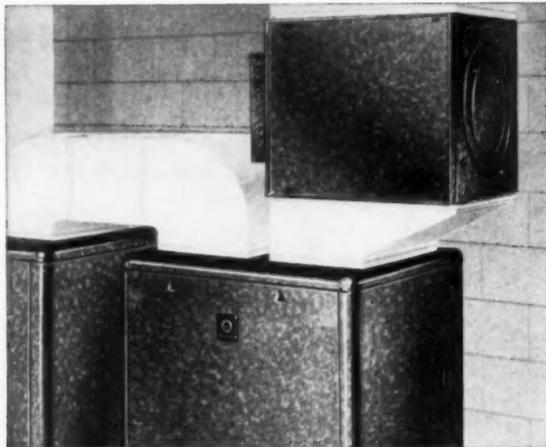
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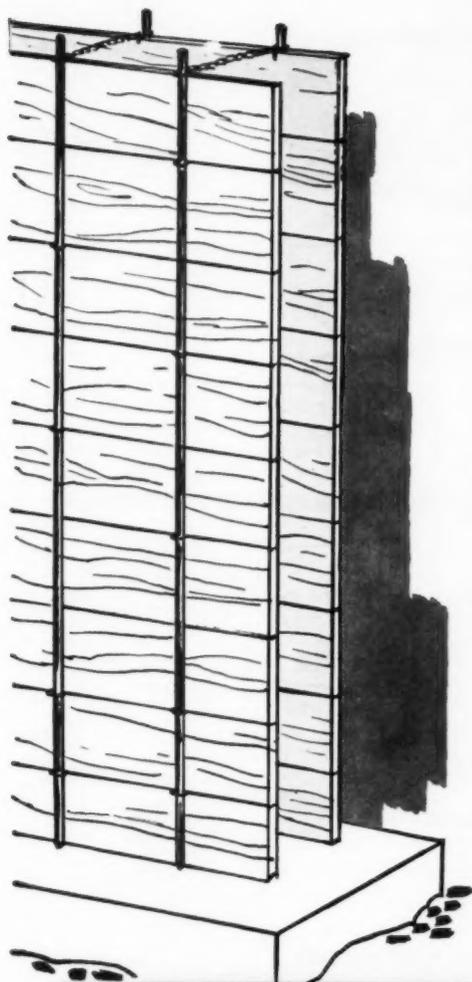
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types of cement

In addition to the basic portland cement which serves most of the needs of the construction industry, there are many special types for applications where specific properties are needed. High early strength cement permits concrete to be placed in service and forms stripped more quickly. High sulfate-resisting cement is used widely in the West where excessive sulfate chemicals are present in the air and soil.

Air-Entraining Cements

Air-entraining cements contain small amounts of soap-like or fatty ingredients ground up with the normal clinker. Concrete made with these cements, or with other air-entraining agents introduced on the job under careful control, contains billions of microscopic air cells throughout each cubic foot of concrete. These relieve internal pressure on the concrete by providing tiny chambers for the expansion of water when it freezes.

Air-entrained concrete with normal aggregates is from three to six per cent lighter in weight than otherwise. There may be some loss in strength with normal cement-water ratios, which require slightly more aggregate. This may be offset by increasing the amount of cement per cubic yard. Air-entrained concrete has less slump than regular concrete. Because there is no difference in price between regular and air-entraining cement, the latter is steadily advancing in popularity with builders.

White Portland Cement

White portland cement is a Portland cement made of selected raw materials and by processes which

will introduce no color, staining, or darkening of the finished product. Water-proof portland cement is made by grinding water-repellent materials with the clinker from which it is made.

Refractory Cement

Refractory cement is not a true portland cement, but is a calcium-aluminate hydraulic cement having many properties unlike portland cement. Refractory cement makes possible the use of concrete for many purposes and conditions where ordinary concrete is unsuitable, such as for furnace and kiln linings and chimneys. Refractory aggregates, such as crushed salvage firebrick, must be used in such mixtures.

The cement used by the Romans in ancient times was a volcanic rock of alkaline silico-aluminate composition, called pozzolana. This cement formed a very stable concrete due to a chemical reaction between the free lime and the pozzolana. Similar characteristics are found in fly ash, and research is under way at the present time to determine the effects of the addition of fly ash to cement. Fly ash, suitably treated with alkalines and combined with portland cement produces a concrete of greater compressive strength and sulfate resistance than is obtained by other cements, on the basis of present tests.

AGGREGATES

Although they are usually considered as inert materials acting as fillers, the aggregates compose some 66 to 78 per cent of the concrete by volume. Aggregates must be clean, free of clay, dirt, coal, silt or other matter which would inhibit proper coating by and bonding with the cement paste.

CEMENT, CONCRETE, MORTAR, PLASTER, AGGREGATES, AND STRUCTURAL CLAY PRODUCTS

Types of Cement

Aggregates

Sand and Gravel
Perlite, Vermiculite
Light Weight Aggregates

Structural Concrete

Prestressed Concrete
Pneumatically Applied
Concrete
Precast Concrete Masonry
Units
Stucco and Concrete Coatings
Repairing Damp Basements

Brick and Clay Products

The S.C.R. Brick
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CHAPTER PLEASE USE ONE OF
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Typical Mix Designs for Light Weight Insulating Concrete

*Dry Concrete Properties			Mix Proportions by Volume				Field Tests of density	Materials Required for One Cu. Yard of Placed Concrete			
density (lbs/cu ft even dry)	com- pressive strength (psi at 28 days)	thermal conduc- tivity "k"	cement (sacks)	Perlite (cu ft)	water (gal per sack cement)	air entrain- ing agent † (pints)	wet density as poured (lbs/cu ft)	cement (sacks)	Perlite (cu ft)	water (gals)	air entrain- ing agent † (pints)
35	490	.93	1	4	9	1	49	6.50	26	58½	6½
29	280	.77	1	5	11	1¼	42½	5.20	26	57	6½
26	220	.70	1	6	13	1½	40	4.33	26	56½	6½
23½	160	.65	1	7	15	1¾	38	3.70	26	56	6½
21½	125	.62	1	8	17	2	37	3.25	26	55	6½

*Based on average aggregate density of 8.0/cu. ft. Strength data based on ASTM type 1 Portland Cement.
†Available from Perlite Institute members.

Courtesy Perlite Institute

Both fine aggregates, such as sand, and coarse aggregates, like gravel, should meet the requirements of "Standard Specifications for Concrete Aggregates," ASTM Designation C33.

The size of the aggregates depends upon the thickness of the section to be poured. All sand should pass through a ¼-inch mesh. The maximum diameter of coarse aggregates should not be greater than one-fifth of the narrowest dimension of the concrete member in which it is being used.

Other Aggregates

In addition to sand and gravel, other materials used as aggregates in concrete include cinders, blast furnace slag, burnt clay, pumice, and expanded vermiculite. Cinder concrete is made of cinders, cement, and water; or cinders, sand, cement, and water. In order to be suitable for concrete, cinders should be hard-burned boiler cinders, free from fine ash, and with a combustible content of not more than 35 per cent by weight. Household ashes are too fine and powdery and should never be used.

Cinder concrete is used for certain classes of work such as roof saddles, floors not designed for carrying heavy loads, and the manufacture of cinder blocks.

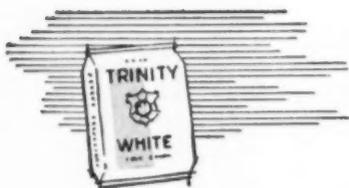
Blast furnace slag has found an increasing use as a coarse aggregate for concrete. The slag particles are extremely hard, and because of their pitted surfaces are firmly held in the matrix of cement and sand. Generally, blast furnace slag for concrete work should have a weight of 65 pounds per cubic foot or more, depending on the abrasion to which the concrete is subjected.

(Continued on page 78)

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Trinity White is a true portland cement and has unexcelled beauty—the beauty of the whitest white . . . plus the best possible results when color pigments are added. Use it wherever you want greater masonry beauty or higher light reflection as for example: architectural concrete units; terrazzo; stucco; light-reflecting floors and walls. For descriptive literature, write Trinity White Cement, 111 W. Monroe St., Chicago.

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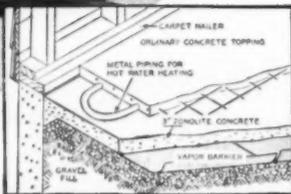
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1 Zonolite Vermiculite Concrete

Ideal for lightweight roof decks, roof insulation, cavity-wall fill and insulating floors on ground.

- **HIGH INSULATION VALUE**—one inch equal in insulation to 12-16 inches of ordinary concrete.
- **LIGHTWEIGHT**—only 25-40 pounds per cubic foot, depending on mix.
- **HIGH YIELDS**—no breakdown of aggregate. Easily job-mixed or transit-mixed.
- **PERMANENT**—will not decompose or rot.

When it replaces sand and gravel in the concrete mix, ZONOLITE Stabilized Concrete Aggregate produces an extremely lightweight insulating concrete. *For roof decks:* combines deck and insulation in one operation. *For roof insulation:* may be poured over any structural deck for permanent, efficient insulation. *For floors:* (a) ideal base for radiant heat systems. (b) where an exposed concrete floor is desired, Zonolite with a sand-concrete topping provides high insulating efficiency.

2 and new Zonolite Vermiculite Sand Concrete

Use as fill over structural floors, for floor slabs over closely spaced joists, or for floor slabs on ground.

- **LIGHTWEIGHT**—½ the weight of ordinary concrete!
- **EXTRA INSULATION**—4½ times the insulating value of ordinary concrete.
- **ELIMINATES NEED FOR TOPPING**—Only one concrete pour.
- **UNIVERSALLY AVAILABLE—INEXPENSIVE**—ZONOLITE sand concrete usually costs less than concrete with similar characteristics made from other aggregates.

New! Developed to answer the building industry's requirements for a semi-lightweight, resilient, fireproof, permanent floor! ZONOLITE Vermiculite Sand Concrete is ideal as a base for tile, linoleum, terrazzo or carpeting—without the addition of a regular sand-concrete topping! Lightweight bagged Zonolite Aggregate permits important economies in handling and placing. Dead load reduction in buildings saves structural steel, too.



Screeding Zonolite Sand Concrete, grade-level floor. United States Tobacco Co., Chicago, Ill. Ideal concrete for one-pour floors on grade, or for lightweight upper story floors.



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Mount Royal Manor Apartments, Duluth, Minn. Contractor-Owner: W. C. Smith, Inc. Architect: A. Reinhold Melander—both of Duluth.

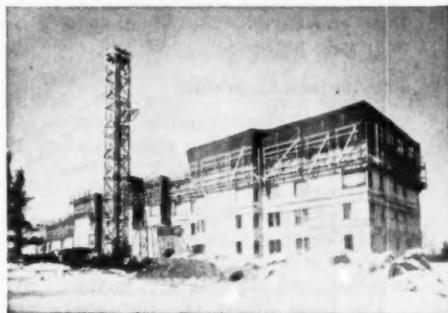
Owner-builder notes "lower costs" with Atlas Duraplastic* Cement

GOOD WORKABILITY is a prime essential in the success of architectural concrete since it serves as both a structural and a finish material. W. C. Smith, whose firm is contractor and owner of the Mount Royal Manor Apartments in Duluth, found "concrete made with Duraplastic has better workability, requiring less effort in placing, and that helps lower costs."

When you design for or build with concrete, it will pay you to consider the special advantages of Atlas Duraplastic, the original air-entraining portland cement.

You'll find it requires less mixing water for a given slump. And its more plastic mix aids proper placement, resulting in *improved surface appearance*. Moreover, since entrained air minimizes bleeding, or water gain, and segregation, concrete made with Duraplastic is also *fortified against the effects of freezing-thawing weather*. Both features add up to better concrete.

YET DURAPLASTIC COSTS NO MORE! It sells at the same price as regular cement and requires no unusual changes in procedure. Complies with ASTM and Federal Specifications. For more information, write Universal Atlas Cement Company (United States Steel Corporation Subsidiary), 100 Park Avenue, New York 17, N. Y.



Construction goes ahead satisfactorily even in 20-below Minnesota weather. And since the mix is made with Duraplastic, finished concrete will have extraordinary resistance to freezing-thawing weather ahead!

*"Duraplastic" is the registered trade mark of the air-entraining portland cement manufactured by Universal Atlas Cement Co.

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AIR-ENTRAINING PORTLAND CEMENT

Makes Better Concrete at No Extra Cost

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(Continued from page 74)

Lightweight Aggregates

Concrete made with the usual types of aggregates weighs on the average about 150 pounds per cubic foot. Concrete of a lighter weight can be produced by the use of an admixture which causes swelling of the mix, or by the use of lightweight aggregates. The admixture has been used chiefly for floor and roof fills, giving a concrete weighing about 50 pounds per cubic foot. The strength of such concrete is less than that of normal concrete, but in such uses strength is not an important factor. With admixtures, the swelling occurs after the concrete is placed, so that allowance must be made for the increase in volume.

Lightweight aggregates are used in some structural concrete and in precast units such as concrete masonry, floor joists, and precast roof slabs. Burnt clay, expanded blast furnace slag, pumice, and expanded vermiculite are some of the materials used. Sand is often added as a fine aggregate to improve the workability of the mix. Concrete weights of from 40 to 110 pounds per cubic foot are obtained, depending on the type of aggregate and the use for the concrete. Higher cement factors are required for given consistency and strength with lightweight aggregates than for concrete using ordinary aggregates.

Lightweight aggregates are porous and must be wet thoroughly before being used. A larger proportion of fine aggregates is generally required, because of the rough surfaces and irregular shapes of light aggregate particles.

Prestressed Concrete

In conventional reinforced concrete, the compressive strength of concrete is combined with the tensile strength of steel. This combination places definite limitations on the thickness and weight of unsupported spans, the size of columns required, and the weight of beams.

The basic theory of prestressed concrete is to eliminate or reduce the tensile stresses to which unsupported areas such as roofs, floors, and the walls of tanks and pipe are subjected. This is done by stretching the reinforcing steel so as to superimpose compressive stresses in the concrete.

The strengthening compressive stresses are induced in prestressed concrete in either one of two major ways; by pre-tensioning or by post-tensioning of the steel reinforcement. In the pre-tensioning process, the steel is stretched *before* the con-

crete is placed or has set, and is anchored by bond within the concrete. After the concrete has hardened around the tensioned reinforcement, the jacks or stretching forces are released. As the steel seeks to shrink back to its original length, the tensile stresses are converted into compressive stresses in the concrete.

In post-tensioning, the steel is stretched *after* the concrete is hardened, and is anchored externally by means of plates or other gripping devices. In this process, the steel is tensioned against the concrete so that the greater the tension on the steel, the greater the compression in the concrete.

Pneumatically Applied Concrete

Concrete may successfully be applied by pneumatic pressure. Graded aggregate, less than 1/4-inch in size, is mixed with portland cement and placed in a pumping machine from which it is fed into a hose at about 35 to 55 pounds pressure. Water is fed to the nozzle at a pressure about 15 pounds higher than that of the dry mix, and is sprayed on to form a homogeneous concrete. Less water is used with this process — about 3 1/2 gallons per bag of cement — because the impact force expels excess moisture, air, and uncoated cement.

This concrete may be shot against any appropriate sturdy surface, including earth, to a width of several inches without slumping. This method may be used for building swimming pools, for repairing, waterproofing, fireproofing, and for protecting steel. Concrete blocks laid up without mortar or reinforcing, and shot with 3/4-inch covering of pneumatic concrete have developed over three times the tensile strength of conventionally laid blocks.

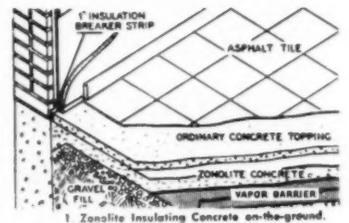
Precast Concrete

Precast concrete is used mostly in the form of masonry units — concrete block, sill, slabs, etc. The development of the low-cost concrete block has been made possible largely by automatic concrete block-making machines, in which cement, water, aggregate and coloring are all mixed, formed, compacted and delivered for curing. Many of these machines are capable of producing as many as 10,000 units a day. At the other extreme, there are block machines operated by hand for farmers who have the time and suitable aggregates available for casting their own block. Many contractors find that a small concrete block plant is a profitable side-line, in addition to being a dependable source of quality block.

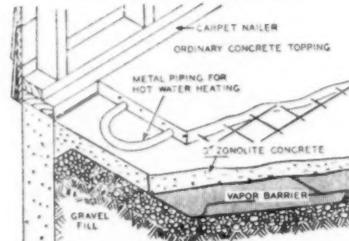
The wide variety of uses of concrete block include both load-bearing and non load-bearing functions. Foundation walls, piers, partitions, party walls, chimneys, back-up walls, sills, lintels and the like are all readily erected with concrete masonry units. The following is a partial list of the masonry unit forms now being made by manufacturers in a variety of sizes:

Slabs	Sash block
Cap block	Header block
Coping block	Chimney block
Floor filler block	Bull nose block
Siding block	Grade block
Ashlar block	Corner block
Pilaster block	Sill block
Steel sash block	Beam lintel block
Catch basin block	Wall block
Brick	Roof tile
Drain tile	Concrete pipe

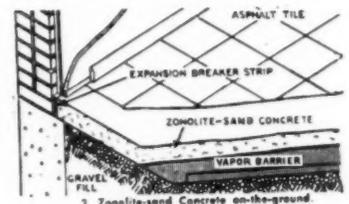
TYPICAL FLOOR CONSTRUCTION USING LIGHT WEIGHT AGGREGATE IN INSULATING CONCRETE AND IN SAND CONCRETE.



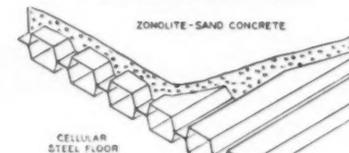
1 Zonolite Insulating Concrete on-the-ground.



2 Radiant Heat Coils Over Zonolite Insulating Concrete



3 Zonolite-sand Concrete on-the-ground.



4 Zonolite-sand Concrete over cellular steel.

Courtesy The Zonolite Co.

AMERICAN BUILDER

Although these units are made in various sizes, their dimensions are usually modularly co-ordinated to simplify building problems. Actual dimensions are short 1/4-inch or 3/8-inch of normal sizes to allow for mortar joints. Thus, the standard 8 by 8 by 16-inch unit actually measures 7 7/8 by 7 7/8 by 15 7/8 inches. Concrete blocks are an economical masonry unit for houses because they are relatively large, more quickly set than brick, relatively true to size, and more economical of mortar.

Concrete masonry units may be made to have excellent fire-retarding and acoustical properties. Aggregates may be selected to give light weight or extreme density. In addition to sand and fine gravel, aggregates may include expanded slag, pumice, vermiculite, and other materials.

Structural Units

In addition to all of the different types of masonry units, a wide variety of structural units such as joists, slab sections, and wall sections are precast. Many of these sections are of pre-stressed construction, giving strength with light weight and permitting many new architectural applications and design treatments.

REPAIRING DAMP BASEMENTS

Dampness or leakage in concrete or masonry basements may occur because of atmospheric moisture on wall or floor surfaces, through leakage of water through cracks, or

through gradual seepage of moisture from the surrounding soil. The remedies depend upon the cause.

Condensation

Dampness from condensation may be prevented or minimized by either heating the basement air, dehumidifying the air, or ventilation.

Leakage or Seepage

Before making extensive repairs, the drainage system should be thoroughly checked. Many times, correction of obvious faults in the drainage system corrects the damp basement. Relocation of downspouts or construction of gutters to take runoff water away from the walls is essential. If downspouts are not connected to underground drains, they should discharge into leads that will carry the water away from basement walls.

Repairing Walls from Outside—Repairs are most effective and lasting when made to the earth side of the basement wall by digging a trench wide enough to work in, extending to the bottom of the footing. The wall surface should be thoroughly cleaned by brushing and washing to remove all dirt and loose material. If the construction is of masonry, any loose mortar should be removed to a depth of 3/4 in. If there are cracks in either the masonry or cast-in-place walls these should be cut back to form a V-shaped groove at least 1/2 in. wide and 3/4 in. deep. Both mortar joints and V-shaped grooves should be cleaned of all dust or other loose material and then wetted before being filled with a stiff cement-

sand mortar consisting of 1 volume of portland cement to 1 1/2 volumes of mortar sand. This mortar is mixed to the consistency of moist earth and should be rammed into the crack with a caulking tool.

If the basement walls are of masonry they should then be given two coats of portland cement plaster each 1/4 in. thick. The plaster should be made in the proportion of 1 volume of portland cement or masonry cement to 2 1/2 volumes of damp loose mortar sand. The wall surface should be dampened before application of first coat. After the first coat is partly set it should be scratched with a piece of metal lath to provide a good key for the final coat. The first coat should be allowed to harden for at least 24 hours and then dampened before application of second coat. The second coat should be cured by keeping its surface damp for at least 48 hours.

Whether the wall under repair is of masonry or cast-in-place concrete, the final treatment to the exterior surface should consist of two continuous coatings of hot bituminous material. These should be brushed on over a suitable priming coat and should extend from 6 in. above the ground line down over the top of the footing. The second coat of hot bituminous material should be applied with brush strokes at right angles to the strokes used for the first coat. The wall must be surface dry when primer is applied and primer should be dry before the hot bituminous material is applied.

new SCR brick

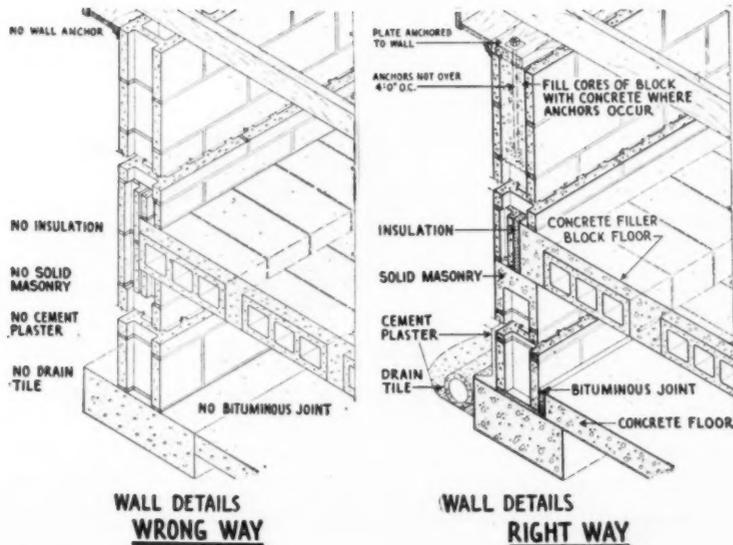
This new brick is a through-the-wall unit needing no backup materials. Conventional in appearance (it looks like standard Norman brick) the unit can replace present 8-inch wall construction in homes of 1 1/2 stories. Every major national building code permits 6-inch masonry walls for single-family one-story residential construction (9-foot walls, 15 feet at gables). FHA accepts such a wall.

Size of the SCR brick is modular but it can be used with non-modular design as well. The brick is vertically cored with holes of 1 3/4-inch diameter to lighten its weight. The unit weighs about eight pounds when made with the usual clays and shales. Smooth or textured surfaces are available in a wide range of color.

SCR brick is designed for use with furring on which the interior surface materials and insulation can be mounted. Two-inch by 2-inch wood furring is solely recommended, as it

(Continued on page 84)

typical concrete masonry walls



BRIXMENT for



FOR over thirty years, Brixment has been recognized as the *best* masonry cement on the market. Government statistics show that it is by far the largest-selling and most widely-used brand. It is universally considered the standard for all masonry cements.

During recent years, of course, a number of somewhat similar products have been brought out in an attempt to compete with Brixment. But none of them can use the same raw materials and the exclusive Brixment process. Therefore, no other masonry cement combines to such a high degree the same plasticity, strength, bond, water retention, and freedom from efflorescence. It is this *combination* of advantages that makes Brixment superior to other masonry cements, and *especially* to any mixture of portland cement and lime.



BRIXMENT IS EASIER TO MIX

One bag of Brixment and three cubic feet of sand — this is the simple Brixment mix. Nothing else is needed because Brixment combines the characteristics of portland cement and lime, having both strength and plasticity. No water-proofing admixtures are necessary because an air-entraining and water-proofing agent is intermixed with Brixment during manufacture. As a result, Brixment mortar offers greater resistance to the passage of water.

Because Brixment requires no soaking or slaking, it is ready to mix and use the minute it is delivered. Neither men nor materials need be sent to the job in advance of actual work.

The mortar can be mixed in large or small batches as the work progresses, to come out even at the end of the day. When Brixment is used, no supervision is required at the mortar box, to secure mortar that is uniform in strength and color.

STRONG, DURABLE BOND

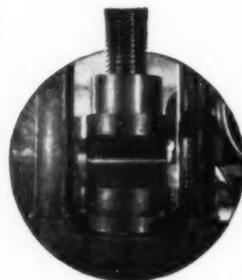
Brixment mortar assures a strong, durable bond with the brick *because*:

(1) Its great plasticity and its high water-retaining capacity allow a more thorough bedding of the brick, and a more complete contact between the brick and mortar.

(2) It hardens slowly enough to permit deeper penetration and more thorough keying into the pores of the brick.

(3) Once formed, a bond between brick and Brixment mortar is permanent, because Brixment mortar does not undergo volume changes sufficient to weaken the bond.

Because of these characteristics, Brixment mortar makes a *better bond*.

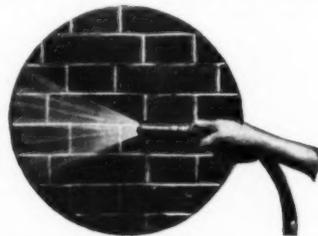


BRIXMENT IS STRONG . .

Brixment exceeds the Type I and Type II strength requirements for masonry cement of both the Federal and the American Society for Testing Materials specifications. Type II is usually specified when high strength is required.

When Brixment mortar is tested in compression between two brick, at 28 days or later periods, the brick frequently crack before the mortar fails.

Brixment is recommended for any kind of masonry — for foundations, load-bearing and parapet walls, for free-standing stacks—for every use where strength is required.



BRIXMENT HELPS PREVENT LEAKY WALLS . .

No water-proofing admixtures are necessary when Brixment is used for mortar. Brixment is water-proofed with an effective air-entraining and water-proofing agent which is integrally mixed with Brixment during manufacture.

BETTER MASONRY

Because of this water-proofing, and because of its plasticity, its high water-retaining capacity and its excellent bonding qualities, Brixment mortar furnishes as great protection against leaky walls as can be secured from any kind or type of mortar materials.



BRIXMENT HELPS PREVENT EFFLORESCENCE

Efflorescence is caused by soluble salts which are present in almost all masonry materials. When reached by water, these salts dissolve and may be drawn, by evaporation, to the surface of the wall.

Brixment helps prevent efflorescence. The air-entraining and water-proofing agent in Brixment prevents water from saturating the mortar and dissolving the small amount of salts that it may contain. Moreover, Brixment mortar prevents water from percolating down through the wall, dissolving salts which may be in the brick, and carrying them to the surface.



BRIXMENT IS PLASTIC . .

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.

One of the outstanding characteristics of Brixment mortar is its unusual plasticity. For over thirty years, bricklayers all over the United States have agreed that the workability of Brixment is comparable to that of straight lime putty. This exceptional plasticity makes it easy for the bricklayer to secure neat, economical brickwork, with the brick properly bedded, and the joints well filled.

And because of this unusual plasticity, a bag of Brixment will carry three full cubic feet of sand and still make an ideally workable mortar.

WATER-RETAINING CAPACITY

Brixment mortar has extremely high water-retaining capacity. It strongly resists the sucking action of the brick. Brixment mortar therefore stays smooth and plastic longer, when spread out on the wall. *This permits a more thorough bedding of the brick, and a more complete contact between the brick and mortar.* The result is a better bond, and hence a stronger and more *water-tight wall.*



BRIXMENT FOR STUCCO AND PLASTER

The same characteristics that make Brixment superior to portland cement and lime for masonry make it equally superior to these materials for stucco and plaster.

Brixment is more economical, more moisture-resistant, more plastic and more uniform in color than a combination of cement and lime. It has a slower, more convenient hardening time and since it is used in leaner mixes, hair-checking, crazing and shrinkage are reduced to a minimum. Write for recommended mixes.

Brixment stucco and plaster can be applied over any kind of masonry backing (brick, tile, block, concrete, etc.), or over expanded metal lath. The use of Brixment stucco and plaster over any other backing is not recommended.

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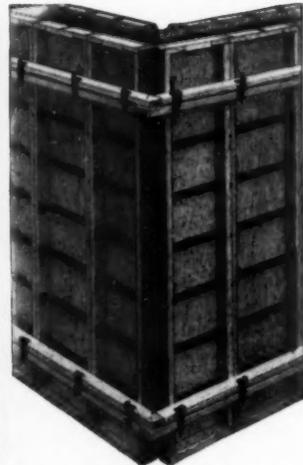
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Speed, Indiana

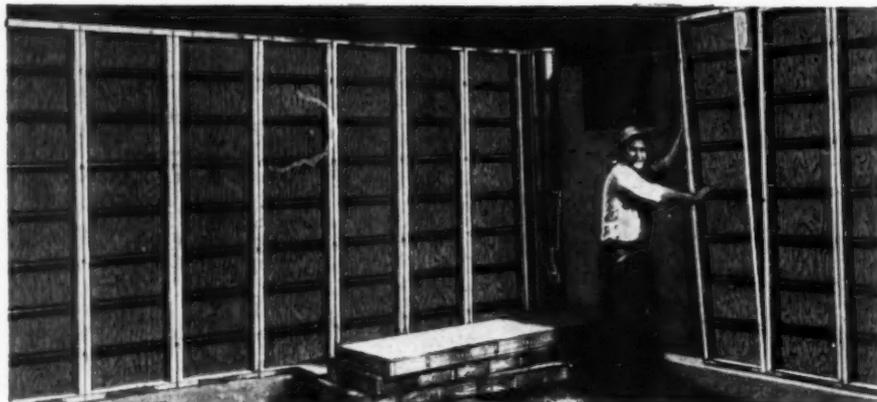
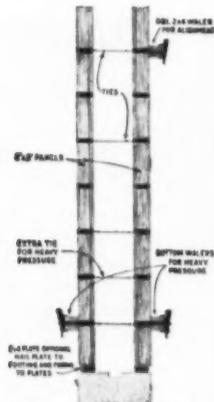
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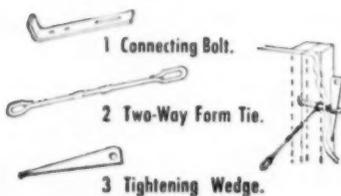


1 Starting at a corner, panels of the outside form are erected. Spreader ties are placed in position and anchored on the same connecting bolt, locking panels together. **2** Inside panels join projecting ties. Forms are aligned and braced with walers.



3 Section showing inside and outside forms ready to pour. **4** To strip wall remove locking wedges and connecting bolts. Pull panels back easily. Break off tie loops with a ½ twist. Wall is smooth, strong and waterproof.

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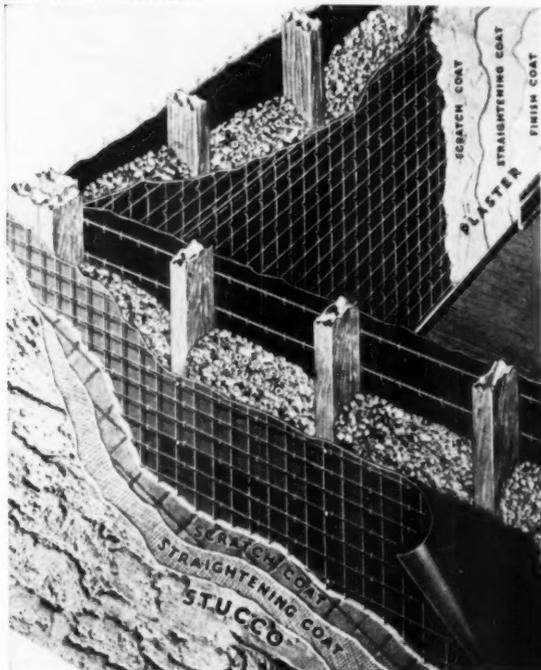
STUCCO AND CONCRETE COATINGS

Portland cement stucco is typically composed of one part of cement and three to five parts of damp, loose, well-graded aggregate. Hydrated lime up to 10 per cent by weight of the portland cement may be added as a plasticizing agent for better workability. Proportions should be accurately measured and thoroughly mixed. From three to five minutes of mixing time in a drum mixer is about normal. The most common practice is to use white portland cement with white sand to secure a good white finish coat.

Frame buildings to be stuccoed should have sheathing more than eight inches wide. This is covered with a 15-pound building paper, lapped three inches at joints and flashings. A steel reinforcing mesh is applied with furring nails that space out the mesh $\frac{1}{4}$ to $\frac{3}{8}$ inches. Reinforcing joints should lap an inch and be staggered and lapped three inches at flashings. The building is then ready for stucco application.

Another point to consider in the preparation of the structure is the avoidance of concentrated water flows, through the use of overhangs and downspouts. Hangers, fasteners, and other trim should be in place before the stucco is applied. Flashings should be installed around the tops and sides of all openings, particularly around chimneys that are to be stuccoed. Although stucco is occasionally run to the ground level, it is better to stop about six inches above ground to prevent moisture seeping and staining.

Stucco goes on in three coats, each being applied in one direction so that the mortar does not harden at the edges. Stops should be made only at natural divisions in the work. The first or scratch coat is applied about $\frac{3}{8}$ of an inch thick, and allowed to set for 48 hours. A fog spray is applied, and the second, or brown coat, about $\frac{3}{8}$ -inch thick, is applied. Both of these coats are scratched to provide bonding for succeeding coats. The brown coat is permitted to moist cure for 48 hours, and should be air dried for about seven days before the final coat is applied. The finish coat should be not less than $\frac{1}{8}$ -inch thick, and is applied after the surface of the brown coat has been moistened.



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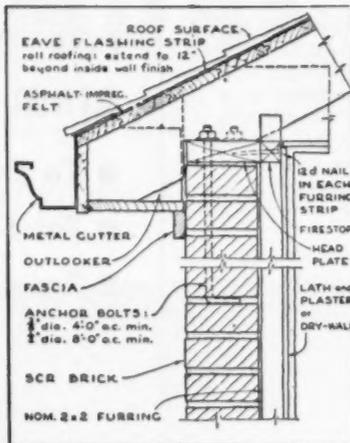
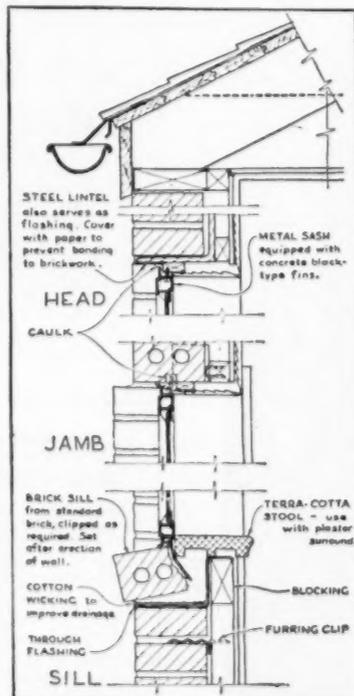


PLATE anchorage and eave detail

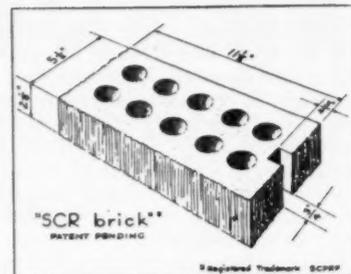
(Continued from page 79)

provides an adequate cavity to prevent moisture penetration and reduces the number of nailing plugs required. It also permits easy wiring and installation of insulation. Using recommended furring, the builder can economically finish the interior of the wall to provide any desired U-factor. One-inch blanket insulation gives a U-factor of 0.12.

To simplify and reduce furring costs, the Clay Products Institute and the Peterson Products Co. of Janesville, Wis., have developed an improved version of the Quikway furring clip, to be used with SCR brick walls.

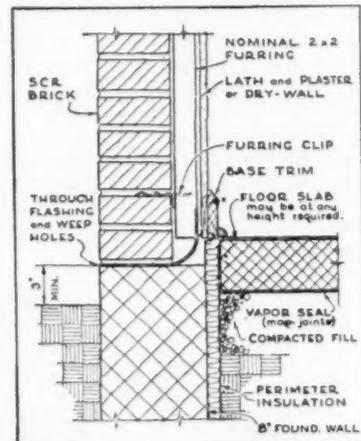


WINDOW DETAILS—metal casement

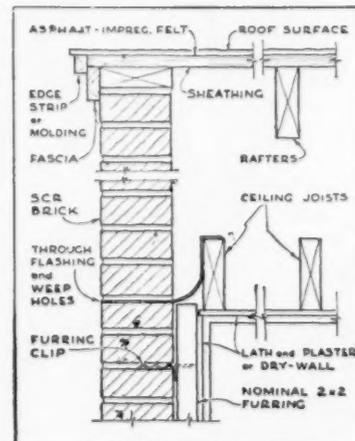


The "SCR brick," a structural clay building unit designed to compete in cost with quality frame construction, has been put on the market through research development of the Structural Clay Products Institute

Endorsed by the Bricklayers, Masons and Plasterers International Union (AFL), the SCR brick is the second major development of the Structural Clay Products Research Foundation established by the industry in 1950. The "SCR" insulated cavity wall, with a new pouring type of insulation permitting exposed masonry interiors with very low heat loss, was introduced in 1951.



FOUNDATION DETAIL—slab-on-ground

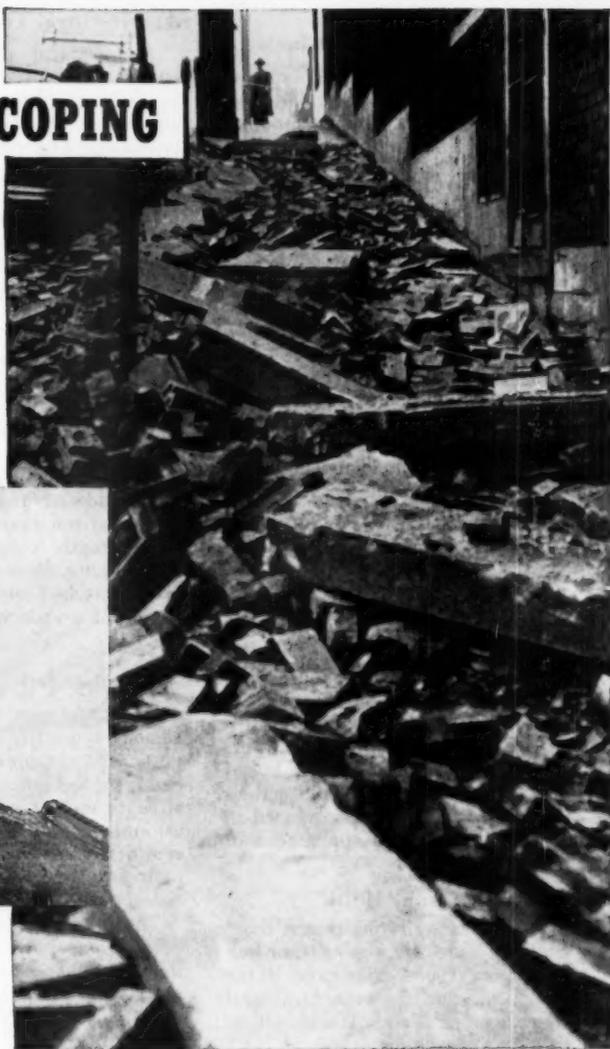


GABLE DETAILS—masonry

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Vitrified



Types of Structural Clay Products

There are three general types of structural clay masonry units: solid masonry units, hollow masonry units, and architectural terra cotta.

Solid Masonry Units

Solid masonry units are those whose volume of cores, cells, or hollow spaces does not exceed 25 per cent of the total for the unit. Brick is included in this classification, and most solid masonry units produced commercially are marketed as a type of brick. Brick falls into two general groups—building brick and facing brick. Building brick (or common brick) is used primarily as a structural material where appearance is not a factor. Facing brick is used both as a structural material and for decorative purposes, where color, texture, and freedom from defects which would detract from appearance must be considered.

Building brick is graded by Specification 62 of the American Society for Testing Materials, which covers three grades based on resistance to weathering. Facing brick is graded by ASTM Specification 216. This specification covers two grades of brick based on resistance to weathering and three types of brick based on factors affecting the appearance of the finished wall.

Hollow Masonry Units

Hollow masonry units are those whose volume of cores, cells, or hollow spaces exceeds 25 per cent of the total volume of the unit. Structural clay tile is included in this classification, and covers such types as load-bearing tile, non-load-bearing tile, facing tile, floor tile and others.

Load-bearing tile is used in walls designed to carry superimposed loads and is graded by ASTM Specification C34, which covers two grades based on resistance to weathering.

Non-load-bearing tile is used in walls which support only their own weight, such as interior partitions carrying no superimposed load. Non-load-bearing tile is covered by ASTM Specification C56, which includes only one grade, since such units are intended for use where they will not be subject to weathering.

Structural clay facing tile is graded by two specifications, those of the Facing Tile Institute and by ASTM Specification C212. These tiles are produced in two general types—side construction tile designed to be laid with cells in a horizontal position, and end-construction tile designed to be laid with cells in a vertical position.

Architectural Terra Cotta

Architectural terra cotta is a custom-made product and is hand made by molding or pressing, and also made by machine. The latter type, shaped by extruding the plastic clay through a die, is often referred to as ceramic veneer, and is available in large sizes up to 48 inches in one dimension. Terra cotta is used extensively in veneering and ornamentation and is available in an almost unlimited variety of colors, both glazed and unglazed.

Use the Proper Mortar For Structural Masonry

In selecting mortar, evaluate its properties in terms of the situation where it will be used. Properties to be considered include: workability and water retentivity, bond, durability, strength, volume change, and efflorescence. Desirable mortar properties may be found in mortars consisting of a wide variety of ingredients.

Recommended Mortars

TYPE A: one part of portland cement, 1/4-part hydrated lime or lime putty, and not more than three parts sand by volume. This is a high strength mortar suitable for general use and recommended specifically for reinforced brick or tile masonry and plain masonry below grade and in contact with earth.

TYPE B: one part of portland cement, one part hydrated lime or lime putty, and not more than six parts sand by volume. Type B mortar is a medium strength mortar suitable for general use in exposed masonry above grade and recommended specifically for parapet walls, chimneys, exterior walls subjected to severe exposures, and also for load-bearing structural clay tile construction.

TYPE C: one part of portland cement, two parts hydrated lime or lime putty, and not more than six parts sand by volume. This is a low strength mortar suitable for non-load-bearing walls of solid masonry units, for interior non-load-bearing partitions of structural clay tile, and for load-bearing walls of solid units in which the loads developed do not exceed 100 *psi* and where exposures are not severe.

plaster . . .

Proper use and application of plaster bases is important in the construction of strong and durable finished walls and ceilings. A secure bond between the plaster base and



The first step in the installation of a two-inch solid gypsum partition is to secure a grooved wooden runner or 3/4 inch steel channel to the floor according to the partition layout with nails or adhesive

the plaster is essential to develop strength and resistance to abuse, bumps, and cracking.

Gypsum plaster adheres to a plaster base because a bond is developed which virtually makes the two materials a solid unit. A "mechanical" bond is formed when plaster is pressed through the mesh or holes of the lath, forming keys on the other side. The keys actually rivet the lath and plaster together. This mechanical bond results when plaster is applied over metal lath or perforated gypsum or fiber insulating lath.

A "suction" bond is formed when gypsum plaster is applied over gypsum lath, sheet fiber insulation lath and masonry bases. In these cases the tiny needle-like crystals of the plaster penetrate into the surface pores of the base material by suction. When the plaster sets, the base material becomes "welded" to the plaster. When perforated gypsum lath is used, both suction and mechanical bonds are developed.

The gypsum industry calls attention to a comparatively new product in the building field—a two-inch solid gypsum lath and plaster partition.

The new partition has attracted attention because it is a good example of how, in a "wartime economy," gypsum products can conserve on lumber and steel in residential dwellings. Another factor which recommends its use in multiple-unit constructions is its space-saving attributes. Engineers have computed that for every 3 1/2 lineal feet, a two inch solid gypsum

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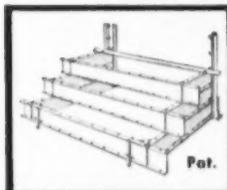


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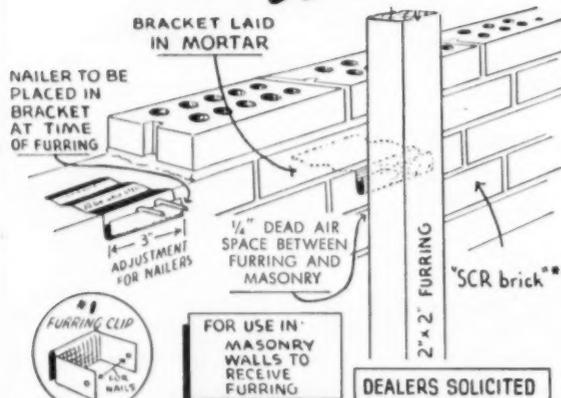
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partition adds an extra square foot of rentable space over a standard stud partition.

The partition, which consists of a core of $\frac{1}{2}$ " gypsum lath plastered $\frac{3}{4}$ " thick on each side, was developed during the early days of World War II to conserve critical materials. It was one of the few developments coming out of wartime experience which has proved a contribution to the building industry, the gypsum industry spokesmen point out. It has been used extensively in garden-type apartments and is gaining considerable attention in the home building field. As described in this article, the partition is one-hour fire-resistive, but when lightweight aggregate is used instead of sand, the fire-rating is $1\frac{1}{2}$ hours.

Performance-wise, the two-inch solid partition withstands cracking from repeated impacts of a 60-pound sandbag falling four feet against the partition.

The Bureau of Standards gives the gypsum two-inch solid partition a sound transmission loss rating of 33 decibels, which is approximately the same rating assigned to three-inch gypsum partition tile, plastered on two sides; hollow metal stud par-



One-half inch, long length gypsum lath with grooved or square edges is set into the floor runner, and tie-wired or clipped to the ceiling runner. Adjacent laths must be butted tightly

STUCCO APPLICATION DATA

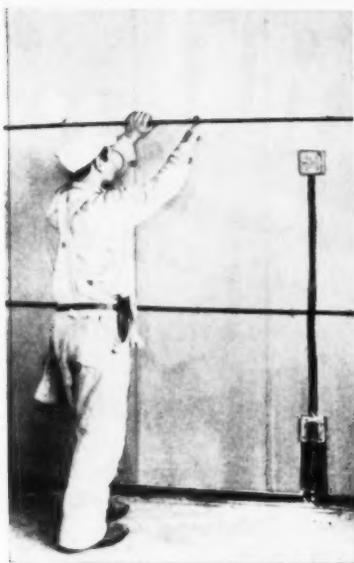
Amounts of Cement and Sand Required

NOTE—The areas covered by one barrel of cement or one cubic yard of sand, as given below, are calculated for an average sand and without allowance for waste. In estimating, allowance must be made for waste. Openings are not deducted. When figuring for stucco, the loss of mortar, forming the keys for the first coat, should be taken into account.

Area Covered by 1 Barrel of Cement in Various Mixes

Mixture		Thickness of Mortar Coat				
Parts by Volume		1/4 Inch	3/8 Inch	1/2 Inch	3/4 Inch	1 Inch
Cement	Sand	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
1	1 1/2	336	226	168	112	84
1	2	404	270	202	135	101
1	2 1/2	472	314	236	157	118
1	3	542	362	271	181	136

Type of aggregate	Wt. of aggregate per cu. ft. (lb.)	Wt. per cu. ft. of concrete using aggregate (lb.)
Burned clay or shale	40-60	100-120
Expanded slag	40-60	90-100
Cinders	40-50	110-115
	(plus sand)	
Pumice	30-60	60-90
Diatomite	28-40	55-70
Perlite	6-16	40-65
Vermiculite	6-10	25-50



To give temporary rigidity to the partition laths, temporary braces are secured to one side only. These braces are $\frac{3}{4}$ inch channels secured to the lath horizontally at about third-points of partitions up to 9 feet in height. The channels are secured to the lath with tie wires at the vertical joints between lath panels. Tie wires are twisted over nails on the unbraced side

titions, plastered on two sides with stud spaces filled with mineral wool; and wood studs faced both sides with metal lath and plaster.

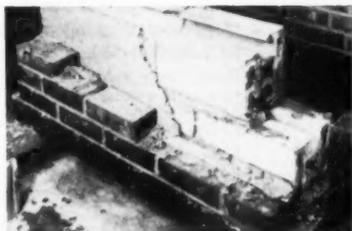


The partition is now ready for plastering. A scratch coat is applied to both sides. After the scratch coat sets, a brown coat is applied to the unbraced side. When the brown coat sets, the temporary channel braces are removed, and a brown coat is applied to the side formerly held by the braces. Wooden runner serves as ground or screed strip for the brown coats. Any standard plaster finish may be used



Prefabricated forms save the builder time and money. The units shown above are of rigidly braced metal panels

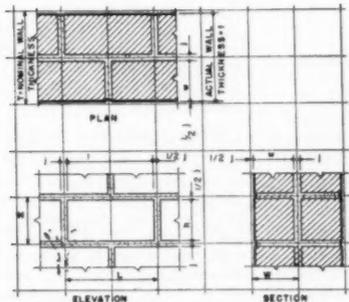
... pointers on bricklaying



PARGING between brick and backing offers high resistance to water penetration



POOR WORKMANSHIP—likely to leak. Deeply furrowed bed joints and only partly filled head joints with no mortar in vertical or collar joints allows water to seep in and damage structure



NOMINAL DIMENSION of masonry unit is equal to standard dimension plus thickness of mortar joint, as shown above. If nominal length of unit is 12 inches, actual length would be $11\frac{1}{2}$ inches if unit is laid with $\frac{1}{2}$ -inch mortar joint



HERE is good workmanship. Bed joint is spread to uniform thickness. Mortar is only slightly furrowed. Head joints are completely filled by buttering end of brick before shoving into place. Slushing partly filled head joints does not do the job!

now...

...you can drill a
2⁹/₁₆" hole EASILY

with your
1/4" DRILL!



COMPLETE KIT INCLUDES:

KORNER KING with drive and wood bit shafts;
10 RCS Super-Speed bits 3/8" to 2 3/4" diameter,
one 6" and one 12" extension and an adaptor
to adapt bits up to 1 1/4 inches for
use with extensions.

- * decrease R.P.M. for carbide tipped and slow speed drills
- * increase R.P.M. for high speed drilling of sheet metal, etc.
- * drill up to 2-9/16 inch diameter holes in hardest wood
- * drill in inaccessible spots, between joists and studs
- * take bit shaft extensions reaching to any distance



WITH THE NEW "INSTANT SNAP-IN"
RCS
KORNER KING
REG. T.M.
AND AMAZING RCS SUPER-SPEED BITS!



ANOTHER RCS TOOL! Yes, RCS, makers of the famous SUPER SAW now proudly present the RCS KORNER KING . . . the newest, finest right angle drive attachment that simply "snaps on" your drill.

FEATURES 2-SPEED DRIVES!

Now you can triple the range of your present electric drill. No need to carry an awkward ratchet brace for low speed drilling when materials demand. KORNER KING converts 1/4" capacity drill of 2000 R.P.M. to 1000 R.P.M. with 80% more power. And you reverse gear ratio in seconds! . . . doubling your drill's speed for high speed boring operation by snapping KORNER KING off and on!

DRILL IN INACCESSIBLE SPOTS!

Handy, compact design of Korner King allows use of your electric drill in otherwise impossible locations. Drill between joists and studs, or in tight cramped corners. Extend shaft to penetrate any thickness or to drill aligned holes through any series of obstructions. Do a faster, better job!

BUILT FOR LASTING PERFORMANCE!

Like the famous RCS SUPER SAW, the new KORNER KING is precision engineered for rugged, continuous duty and trouble-free service. RCS KORNER KING features full ball bearing supported shafts, hardened steel gears. It's another RCS tool that's built to last and "pay for itself" over and over again.

INTRODUCING NEWLY DESIGNED RCS SUPER-SPEED BITS . . .

Something really new in bits . . . amazing, versatile and inexpensive! Patented curved cutting blades do faster boring job with less horsepower. Set screw secures replaceable blade to 5 1/2" shank. Adaptable to extension to indefinite length.

REQUIRE MUCH LESS TORQUE, LESS THRUST!

Impartial tests made at the Mechanical Engineering Shops of the University of Illinois proved that RCS Super-Speed bits need less thrust, develop less torque. In the tests, three 1-inch bits were turned at 1335 R.P.M., traveling through solid oak at .004 inch per revolution. The results:

	thrust in pounds	torque in ft. pounds	H. P.	Temp.
RCS Super-Speed Bits	20.0	1.42	.362	normal
Competitor A	56.0	2.52	.644	hot
Competitor B	75.0	3.94	1.00	very hot

COOL RUNNING, LONG LASTING!

The thin blade design of RCS Super-Speed bits dissipates heat faster . . . razor cutting action reduces friction to a minimum. Made of extremely hard, tempered, blue spring steel. RCS Super-Speed bits drill clean straight holes through any wood . . . cutting small nails, staying sharp longer. When necessary, blades are easily resharpened or inexpensively replaced.

Learn more about the amazing performance of the KORNER KING and RCS Super-Speed Bits. Write for descriptive literature and name of nearest jobber today.

R. C. S. TOOL SALES CORPORATION
JOLIET, ILLINOIS, U.S.A.



The ever-growing use of power tools and equipment in the building industry has undoubtedly contributed more to cutting costs and increasing production than any other single factor. This increase in the use of power tools is inevitably accompanied by greater accident hazards.

Builders are becoming increasingly aware that SAFE construction practices are also economical, whether it be in tool and equipment operation, the building and use of ladders and scaffolds, or removing nails from loose boards. Accident costs are not always insured; improved safety records are reflected in lower insurance premiums, in fewer lost man-hours, and in equipment and materials savings. If an improperly anchored hoisting tower falls, injuring a worker, the man's hospital expenses and lost time may be covered by insurance; but the contractor still must replace or repair the equipment, and is short the services of a skilled and experienced worker.

Safety Is No Accident

Contractors with good safety records are not "just lucky." Safety on the job is invariably the result of careful planning and supervision. Management and executives must

be safety conscious. Safe equipment must be provided and maintained. Foremen and superintendents must see that all accident hazards are eliminated or guarded. Men on the job should be taught to prevent injuries to themselves and fellow workers. Adequate first aid supplies must be provided and medical and hospital attention should be available with a minimum of delay.

Safe Operation of Equipment

Almost without exception, manufacturers "build safety in" in the design and construction of tools and equipment. It will always be found that the proper way is the efficient way and the safe way to use tools. Correct use does the job more efficiently, safer, faster.

Power Suppliers

Basic equipment, such as engines, generators, compressors and transformers is used as a source of power to operate other tools or equipment. Safe operation begins with proper inspection of the equipment when it arrives on the job before setting up for use. Guards over gears and belts, safe oiling devices, handholds, and other safety measures should be checked. Equipment which will be installed for the duration of the job, such as hoisting machinery,

CONSTRUCTION MACHINES & EQUIPMENT

TOOLS, POWER AND HAND

Power Suppliers

Site Preparation Equipment

Concrete Equipment

Lumber, Heavy Units & Materials

Handling Equipment

Lifting Equipment

Trucks

Scaffolding

Ladders

Hand Tools

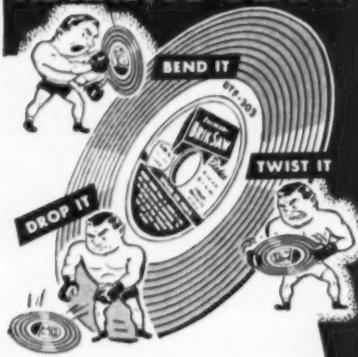
Hand Power Tools

Production Power Tools

ACKNOWLEDGEMENT must be made to the many manufacturers who contributed information used in this chapter and in particular to the National Safety Council for major contributions pertaining to safe and correct operation of tools, machines, and equipment. The National Safety Council has complete and detailed technical reports on nearly all construction tools and devices and is well equipped to help builders interested in cutting costs through safe practices.

**FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.**

Now **EVEREADY**
"TUFFIE"
NON-BREAK
Reinforced
ABRASIVE BLADE



For difficult edge cuts... for **grooving**... for **grinding cuts** impossible with a standard type abrasive blade.

The **reinforced** Eveready "TUFFIE" is unbelievably efficient—virtually indestructible. Can't be surpassed for cutting **Concrete Block**, **Cinder Block**—most common **Brick**—most **Firebrick**—soft **Stone** and other "soft" and "medium soft" materials.

Outstandingly efficient on **hand tools** because of its reinforced ability to withstand twists, strains and binds.



For Glazed Tile, Terra Cotta, Acid Proof Brick and other extremely hard dense vitreous materials use EVEREADY standard Dry and Wet Abrasive Blades and EVEREADY Diamond Blades.



LOWEST MASONRY CUTTING COSTS
 with
EVEREADY BRIKSAW

The fastest, most modern Masonry Saw on the market today! Cuts any masonry material or Stone—WET or DRY.

SEND FOR FREE BOOK



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There's an **EVEREADY DISTRIBUTOR** IN YOUR LOCALITY

EVEREADY BRIKSAW COMPANY
 1305 S. Michigan Blvd., Chicago 5, Ill.

- Send information on "TUFFIE" Reinforced Abrasive Blades.
- Send FREE Booklet.
- Send Masonry Saw information.

NAME _____

ADDRESS _____

CITY _____

STATE _____

POWER SHOVELS, DRAGLINES, etc.
(Operation)

1. Do not overload buckets or booms.
2. Do not undercut the bank.
3. Before hoisting track or materials, give a signal and wait until all workers are in the clear.
4. Never swing a load over an engine or a truck until the driver has dismounted and is in the clear.
5. Load trucks or cars evenly so that material does not overhang the sides.
6. Shut off the power and secure all movable parts before you repair or leave your machine.
7. Use the handhold in getting on or off equipment. Do not jump.
8. Keep floors and running boards free of grease, ice, and debris.



 **SAFETY INSTRUCTION CARD No. 696**
 National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

motor-generator sets, etc., should be set rigidly on a secure level base in proper location to the work. Ready accessibility for operation and maintenance should be provided.

Electrical equipment should be installed and checked only by qualified workmen. Proper ground connections should be made. Circuit breakers or fuses of the correct rating must be installed to prevent overload damage. All wiring must be properly insulated.

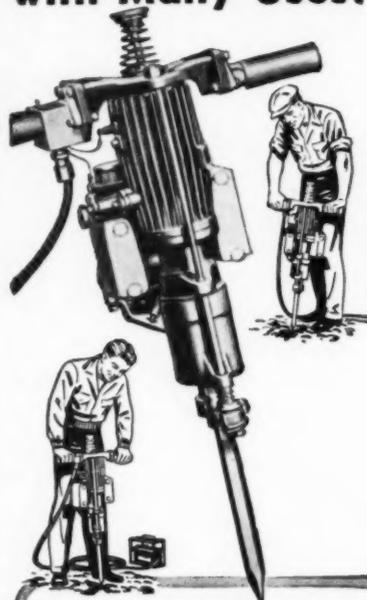
Compressors must have a safety valve set for blow-off at the correct pressure for the equipment and work at hand. Valves and hose should be inspected before being placed in service. Compressors or other equipment mounted on wheels should be blocked to prevent moving while in operation.

In operation, routine checks for maintenance should include inspection of safety features. Replacing of worn belts, defective insulation, repair of hoses—these are all good safety practice as well as efficient maintenance precautions. Only workmen authorized and instructed in correct safe operation of equipment should be permitted to use it. Good housekeeping—keeping the working area free from rubbish, scrap material, ice, and grease and oil on floors—will minimize falls and fire hazards.

Site Preparation Equipment

Safe operation of site preparation equipment such as earth movers, diggers, tractors, and bulldozers begins with the purchase of the machinery. Considerations such as gear guards, safe lubricating de-

A Profitable Tool
with Many Uses!



BARCO
Gasoline
HAMMER

■ **HERE'S** why owners of the improved Barco Gasoline Hammer are enthusiastically acclaiming it as "A Profitable Tool With Many Uses!"

- Versatile! Use it for Pavement Breaking... Cutting... Digging... Rock Drilling... Frost Breaking... Rod Driving. Ideal for general utility, standby, and emergency service.
- One man operation. No compressor needed. Easy to take to any location.
- New ignition system—quick, easy starting.
- Quick disconnect at handle for battery cable. Thumb controlled switch.
- Powerful, rugged; up to 1550 strokes per minute.
- Economical! Low first cost, low operating expense, low maintenance expense. *Quickly pays for itself.*

ASK FOR A DEMONSTRATION—See for yourself—ask for our nearest distributor to give you a demonstration.

BARCO MFG. CO.
 523 E Hough St.
 Barrington, Illinois
 A Chicago Suburb



Ask For
This New
BULLETIN 613

vices, good electrical insulation, and so on should be noted and given due weight.

A sound procedure in training operators to work safely is to stress the practices that eliminate the most serious and frequent accidents and to require observance of these habits. Operators should know and observe safe load limits of the equipment. Serious accidents have resulted from overturning machines such as shovels, cranes and bulldozers due to overloading. Taking too large a bite when digging may cause the machine to lurch, throwing the operator against the frame or off the machine, with the possibility of serious injury.

Trucks should be loaded evenly so that the material does not overhang the sides. Loads should not be swung over the cabs of trucks unless the driver is off the truck.

Operators have a definite responsibility for the safety of other workmen in the areas in which they are working. They should be observant at all times of the other work being carried on. Also, workmen in the site area should notify the operator if they will be working in places where they may not be seen by the operator. Operators should not jump on or off equipment while it is moving; handholds should be used; steps and running boards should be free from ice, snow, grease, oil, or debris.

Machines should be shut down, and blades or booms lowered to the ground when making adjustments, repairs, or lubrication. Good maintenance practices will both prolong machine life and efficiency, and lessen operating hazards.

SCAFFOLD PLANKS—Safe Center Loads

Douglas Fir (Rocky Mountain Region), Sitka Spruce, White Spruce, Red Pine and Port Orford White Cedar. Extreme fiber stress of 1300 pounds per sq. in.

Span in Feet	Nominal size of plank in inches					
	2x8	2x10	2x12	3x8	3x10	3x12
6	230	290	355	610	775	935
8	170	210	260	450	570	690
10	130	165	200	355	450	540
12	105	130	160	285	365	440
14	80	105	130	235	305	365
16	70	90	105	200	255	310

SPECIFICATIONS AND NOTES

For other species of woods as listed below, safe center loads may be determined by multiplying tabular load above by constant indicated for each group:

Species	Fiber stress in pounds per sq. in.	Constant
1. Balsam Fir, Eastern White Pine, Ponderosa Pine, Sugar Pine and Western White Fir.....	1,050	.80
2. Redwood and Tamarack.....	1,400	1.07
3. White Ash, Red Oak, White Oak and Baldcypress.....	1,500	1.15
4. Douglas Fir (Coast Region) and Southern Yellow Pine.....	1,750	1.34
5. Dense Douglas Fir and Dense Southern Yellow Pine.....	2,050	1.57

Above table applies to planks surfaced 4 sides, seasoned to moisture content between 15 and 8 percent, free from shakes, decay or other defects. Slope of grain not steeper than 1 in 15. Knots in edge not larger than 1/2 of plank thickness. Knots in center of wide face not larger than 1/2 of plank width, with permissible size decreasing as they approach edge to 1/4 of plank width at edge. Sum of size of all knots in wide face in length equal to plank width not to exceed 1/2 of plank width. Average plank weight of 30 pounds per cu. ft. included.

Based on data supplied by Forest Products Laboratory

More Speed... More Profits ON EVERY JOB with American!



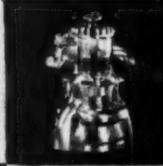
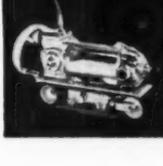
NATION-WIDE SERVICE

American Distributors in principal cities furnish quick service by factory-trained men when repairs are needed. Main office of R. N. Forrester, Chicago area distributor, shown here.

Big job or small job—you'll do it faster and better and MAKE THE MOST PROFIT with an All-American line-up of machines and materials! They're performance-proved on finest floors . . . save labor and insure best results from start to finish!

Depend on American Machines and Abrasives to put a beautiful, super-smooth surface on floors with rapid and efficient sanding, steel wooling and polishing. Use American quality finishes and cleaning materials for wood, cork, concrete, terrazzo, asphalt, rubber, linoleum or plastic. Speed up small tool jobs with American belt sanders, and portable electric saws.

Check your needs now!

	FLOOR SANDERS Five models, a machine for every purpose. Super 8-8" drum; Standard-8" and 12" drums; AMR-8" drum; Little American-8" drum.		FLOOR EDGERS Two models, 7" and 5 1/2" discs—for sanding edges, closets, stairs, small halls.
	ABRASIVE PAPER New improved American Black Demon and American Combination high quality papers are scientifically improved to give longer life, faster cutting.		FINISHES American Finishes are finest quality—complete line for all floors . . . seals, finishes, waxes, cleaners.
	FLOOR MAINTENANCE American Deluxe, for all floors—polishing, waxing, steel wooling, disc sanding, grinding, 19", 16" and 14" sizes.		PORTABLE ELECTRIC SAW 8 1/2" blade cuts 2 1/2" plank at 45°, or 3" straight cut. Motor develops 2 1/2 H.P. Cuts fast, any position, one-hand operation.
	BELT SANDERS Portable . . . many uses, roughing to final finish . . . Sanderplane is ten times faster than hand plane.		LESTO SAW Portable electric jig or saber saw for scroll work, dovetailing, cutting openings, etc. Two models—3" and 2" capacity. Sold and serviced by American.

50 YEARS OF PROGRESS
Famous American Machines are all engineered, manufactured, sold and serviced by American!



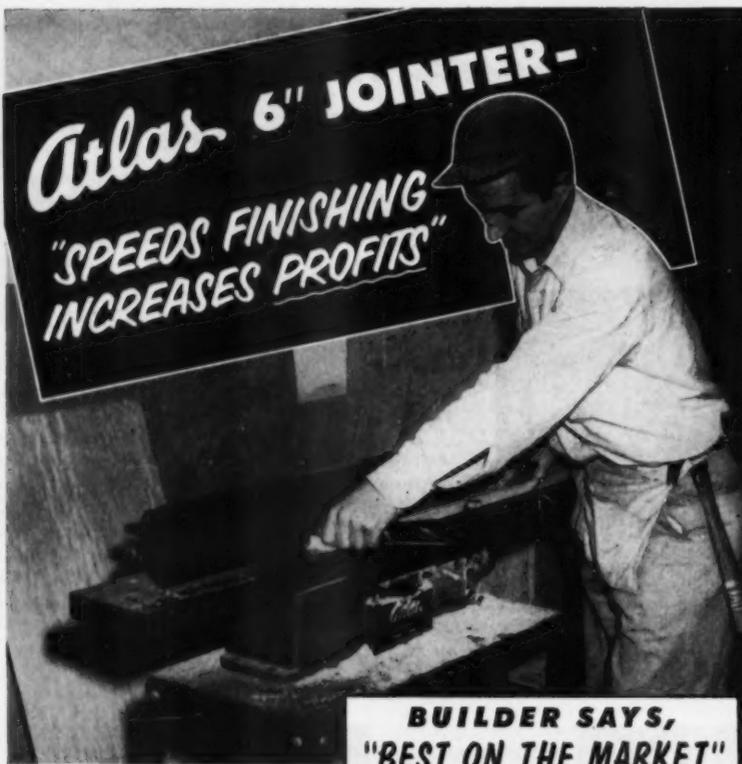
The American Floor Surfacing Machine Co.
511 So. St. Clair St., Toledo 3, Ohio

Please send latest catalog on the following, without obligation:

Floor Sanders Floor Maintenance Machines
 Floor Edgers Portable Electric Saw
 Abrasive Paper Belt Sanders
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Name.....
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City.....State.....

AMERICAN FLOOR MACHINES • PORTABLE TOOLS



Atlas 6" JOINTER -
"SPEEDS FINISHING
INCREASES PROFITS"

BUILDER SAYS,
"BEST ON THE MARKET"

F. L. Randall, builder, "wouldn't be without an Atlas 6" jointer." It saves him time and money in finishing out a house by enabling him to do most of the mill work. Randall considers the Atlas "the best jointer on the market"—likes "its accuracy, the big table and fence, and the easy way the fence can be positioned."



BIG CAPACITY Handling big boards is a sure, easy job on big Atlas working surfaces. THE TABLE IS 42" LONG! Fence, itself, is 32" long, 4½" high. Fence quickly removes for surfacing wide boards.



REMOVABLE CUTTER HEAD
 Atlas cutter head removes for sharpening blades without disturbing their setting. An exclusive feature.

Randall's experience is typical. Put an Atlas 6" jointer on the job and you cut time-costs and improve accuracy on almost every surfacing operation. The Atlas handles planing, edging, truing, beveling, and rabbeting fast and accurately. It is especially useful on cabinet work, built-in units, doors, windows, screens.

You'll like its size, speed, and smooth performance. Table is 42" long — precision-ground for smooth work feeding. New two-way tilting fence is 32" long, 4½" high — has positive adjustable stops for 45° settings. 2¾" diameter cutter head with 3 blades spins 4100 RPM on large, sealed ball bearings. Exclusive features include a timesaving width-of-rabbit scale, and simultaneous blade positioning.

The Atlas 6" jointer can make money for you. Look into it. Send for the latest catalog.

ATLAS PRESS COMPANY
 401 N. PITCHER ST., KALAMAZOO, MICHIGAN

Atlas
 DEPENDABLE QUALITY TOOLS SINCE 1911

CONCRETE MIXERS

Operation

1. To prevent tipping, set the mixer level. On a hill, block the wheels. Before you leave the mixer, land the skip, set the brakes, turn the switches off.
2. Before you start the engine, place the control in neutral. Run the engine for at least 5 minutes before you engage the clutch.
3. Make sure everyone is clear before you move the skip up or down.
4. To crank a motor, keep your thumb beside your fingers and pull up one-quarter turn.
5. Mark the mixer with a red cloth flag by day, a red light at night.
6. Keep away from the drum opening when the mixer engine is running.
7. When exposed to cement dust, wear a dust respirator and tight-fitting clothing.



SAFETY INSTRUCTION CARD No. 698
 National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

Concrete Equipment

Safety in the use of concrete mixers, buggies, vibrators and other tools and machinery begins with proper selection. Gear guards, guard rails for loading skips, enclosures for engines, all should be adequate, and checked before the machine is set up for use.

Mixers should be set level, with wheels blocked. Planning the location of the mixer is necessary for smoothest flow of materials to the mixer and to the job. In urban locations, street traffic must be maintained with safety to both workers and the public.

Mixer operators should be experienced and familiar with the machinery. The skip should be lowered, brakes set, guards closed, and switches shut off and locked if possible before leaving the machine. All controls should be in neutral before starting the engine. If a crank is used for starting, the operator should not place the thumb around the crank handle; it is preferable to use a rope.

No one should put his head, arms or hands in the mixing drum while it is in operation. Only experienced men should clean the drum out at the end of each pour. If concrete is hardened in the drum, goggles should be worn when removing it. The engine must be stopped and locked out of operation if men are working inside the drum.

The motor must be shut off when the tank is being refueled. Extra precautions should be taken in filling if the motor is extremely hot. Fuel tanks should be provided with a shut-off valve as close to the tank as possible in case of fire.

(Continued on page 97)



More of what you want in CHEVROLET Advance-Design Trucks

—and here are 4 powerful reasons why:

NEW ENGINE POWER—TEAMED WITH LOWER COSTS! The improved Loadmaster engine with a new high compression ratio of 7.1 to 1, now delivers even more power. This great engine is standard on 5000 and 6000 Series heavy-duty and forward-control models—optional on 4000 Series heavy-duty models. In light- and medium-duty models the Thriftmaster engine offers traditional Chevrolet economy.

NEW STAYING POWER—FOR GREATER DURABILITY! Frames are heavier, stronger, more durable in all 1953 Chevrolet trucks. You'll find greater ruggedness and stamina. You'll find these trucks even brawnier and sturdier than Chevrolet trucks in past years—trucks that have long been famous for those very qualities. And this heavier construction brings new comfort and freedom from fatigue to drivers, too.

NEW BRAKING POWER—FOR QUICKER, SURER, SAFER STOPS! Two types of brakes on 1953 Chevrolet advance-design trucks provide greater stopping power and greater durability. "Torque-Action" brakes are standard front and rear on all trucks up to 4000 Series heavy-duty models. Extra-large "Torque-Action" brakes in front, "Twin-Action" type in rear are on Series 4000, 5000 and 6000 heavy-duty models.

NEW ECONOMY—LOWERS COST OF EVERY TON-MILE HAULED! Expect greater economy with Chevrolet trucks. New and greater stamina with extra gasoline economy cuts operating costs, maintenance costs in heavy-duty models with Loadmaster engine. *And these great trucks list for less than comparable models of any other make!* Chevrolet Division of General Motors, Detroit 2, Mich.

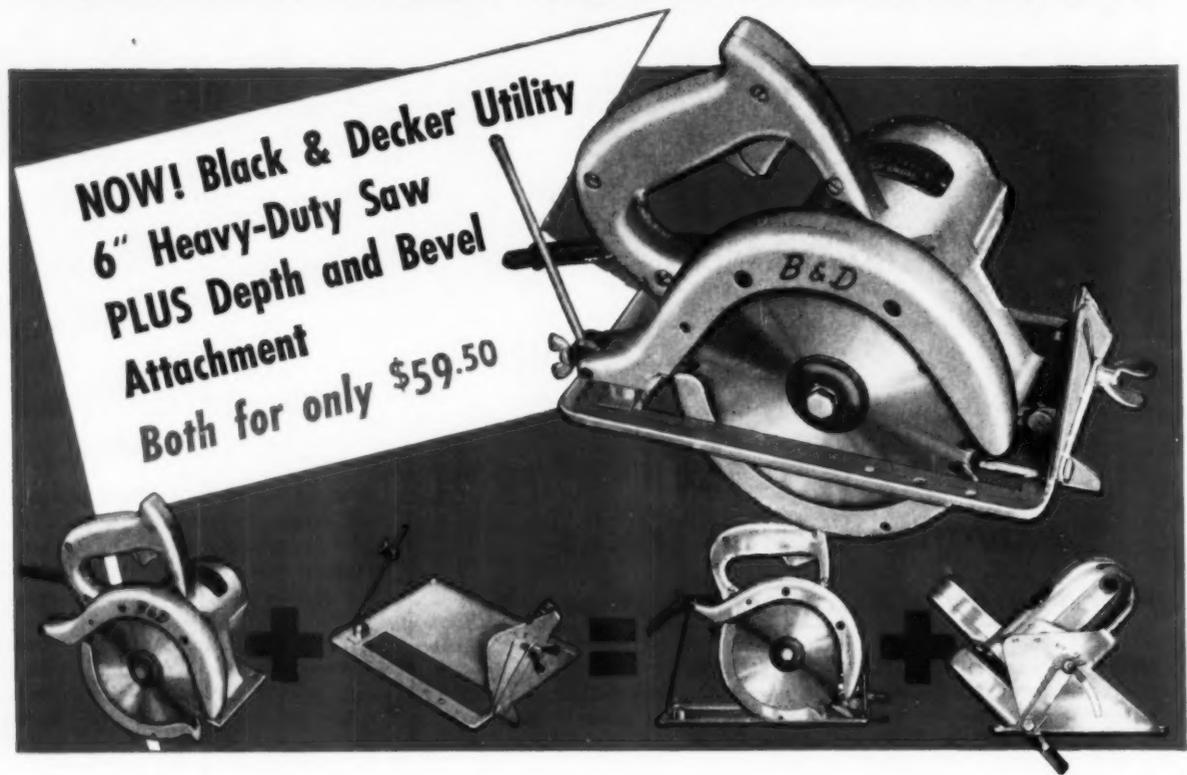
CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

TWO GREAT VALVE-IN-HEAD ENGINES—the Loadmaster or the Thriftmaster—to give you greater power per gallon, lower cost per load. **POWER-JET CARBURETOR**—for smooth, quick acceleration response. **DIAPHRAGM SPRING CLUTCH**—for easy-action engagement. **SYNCHRO-MESH TRANSMISSION**—for fast, smooth shifting. **HYPOID REAR AXLE**—for dependability and long life. **TORQUE-ACTION BRAKES**—on light-duty and medium-duty models and on front of heavy-duty models. **TWIN-ACTION REAR BRAKES**—on heavy-duty models. **DUAL-SHOE PARKING BRAKE**—for greater holding ability on heavy-duty models. **CAB SEAT**—with double deck springs for complete riding comfort. **VENTI-PANES**—for improved cab ventilation. **WIDE-BASE WHEELS**—for increased tire mileage. **BALL-GEAR STEERING**—for easier handling. **UNIT-DESIGNED BODIES**—for greater load protection. **ADVANCE-DESIGN STYLING**—for increased comfort and modern appearance.



Hardware Week Special (April 17-25)

Special Price on BLACK & DECKER UTILITY Saw and Attachment!



**NOW! Black & Decker Utility
6" Heavy-Duty Saw
PLUS Depth and Bevel
Attachment
Both for only \$59.50**

One BIG Package — One LOW Price — One REAL Value!

Now, you can get the famous B&D Utility 6" Heavy-Duty Saw... the original "Professional Saw at a Popular Price"... PLUS the handy B&D Utility Depth and Bevel Attachment... in one complete package at one low price!

The B&D Utility Saw beats hand sawing 10 to 1; features abundant power, easy handling, maximum safety, job versatility, and quality construction! The B&D Utility Depth and

Bevel Attachment permits depth adjustments from 0" to 1⁵/₁₆", accurate angle adjustments from 45° to 90°, or a combination of both!

Together, they give you a terrific value that you'll find hard to beat! For a free demonstration, see your hardware or building supply dealer. For free catalog, write: THE BLACK & DECKER MFG. Co., Dept. H-663, Towson 4, Maryland.

Here are two of four other models available!



7" Heavy-Duty Saw
Cuts to 2³/₈" depth. Has built-in depth and bevel adjustment. **Only \$88.50**



9" Heavy-Duty Saw
Cuts to 3¹/₄" depth. Has built-in depth and bevel adjustment. **Only \$117.00**

Black & Decker
ELECTRIC
UTILITY TOOLS
PORTABLE
ELECTRIC
TOOLS

(Continued from page 94)

Mixer operators subjected to severe exposure to cement dust should wear respirators of an approved type. Suitable ramps and runways must be provided for handling concrete, and should be kept free from grease, ice, snow and debris.

Power operated concrete buggies should be used only by men familiar with their operation. Excessive operating speeds and overloading should be avoided, and special attention should be given to guarding of belts, gears, and other moving parts. Buggies and wheelbarrows should not be used with underinflated tires. Barrows and buggies having weak or broken bracing should be repaired before being put into use.

Vibrators are powered either by gasoline engines or electric motors. Belt guards are necessary. Worn flexible shaft coverings should be repaired or replaced before use. Engines must be shut off when the vibrator is not in use, and electric units should have a non-locking switch so that the vibrator will not run unattended.

Lumber, Heavy Units and Materials Handling Equipment

Straddle carriers and fork lift trucks are becoming more and more a necessary part of the builders' equipment picture. Their speed and ease in handling heavy loads at low cost effect great savings in time and labor. Increased speed of operation and heavier loads carry with them the need for greater safety consciousness. Straddle trucks should not exceed rated loads or speeds, especially on the highways. Proper securing of the load in transit is essential; the load holding mechanism, whether it is of the fork or claw type, chains, wire rope, or slings, should be inspected each day. Much of the efficiency of these units is secured by the proper carrying devices for different types of loads.

Operators of straddle trucks and fork lifts have an extremely high degree of responsibility for safe operation. Men using this equipment should be physically fit, free from erratic tendencies, and well trained in correct safe operation.

Lifting mechanisms require braking devices to permit safe lowering of loads. Positive locks to hold the load in position in transit are necessarily built into all machines of this type, and require periodic inspection. Limit stops are desirable to prevent over-running

(Continued on page 101)

a One-Tractor Fleet for Contractors



Allis-Chalmers

HD-5G

with your choice of

13 interchangeable Attachments

Weight with standard bucket, 16,200 lb.
... 40 drawbar hp. ...
diesel-powered ... hydraulic operation

- ★ 1 cu. yd. Standard Bucket
- ★ ¼ cu. yd. Narrow Bucket
- ★ 2 cu. yd. Light Materials Bucket
- ★ 1 cu. yd. Rock Bucket
- ★ Teeth for All Buckets
- ★ Heavy-duty Bulldozer Blade
- ★ Heavy-duty Angledozer Blade
- ★ Lift Fork (4,000-lb. lifting capacity)
- ★ Crane Hook (5,000-lb. lifting capacity)
- ★ Trench Hoe
- ★ Drag Bucket
- ★ Tine Fork
- ★ Rock Fork

Here is a versatile time-saver on any project. Equipped with Tracto-Shovel quick-change attachments, the HD-5G Tractor becomes a fleet of machines in one . . . hurries every phase of building, from breaking ground to final leveling and landscaping. For example:

Standard bucket (above) digs basements, moves and loads materials of all kinds, elevates bricks, shingles, etc. to roof height on small construction jobs.

Trench hoe (right) cuts a narrow, flat-bottom ditch to a depth of eight feet . . . ideal, too, for precision work on footings and other small excavations.



Straight or angled blade (left) handles clearing, final leveling, back-filling and landscaping.

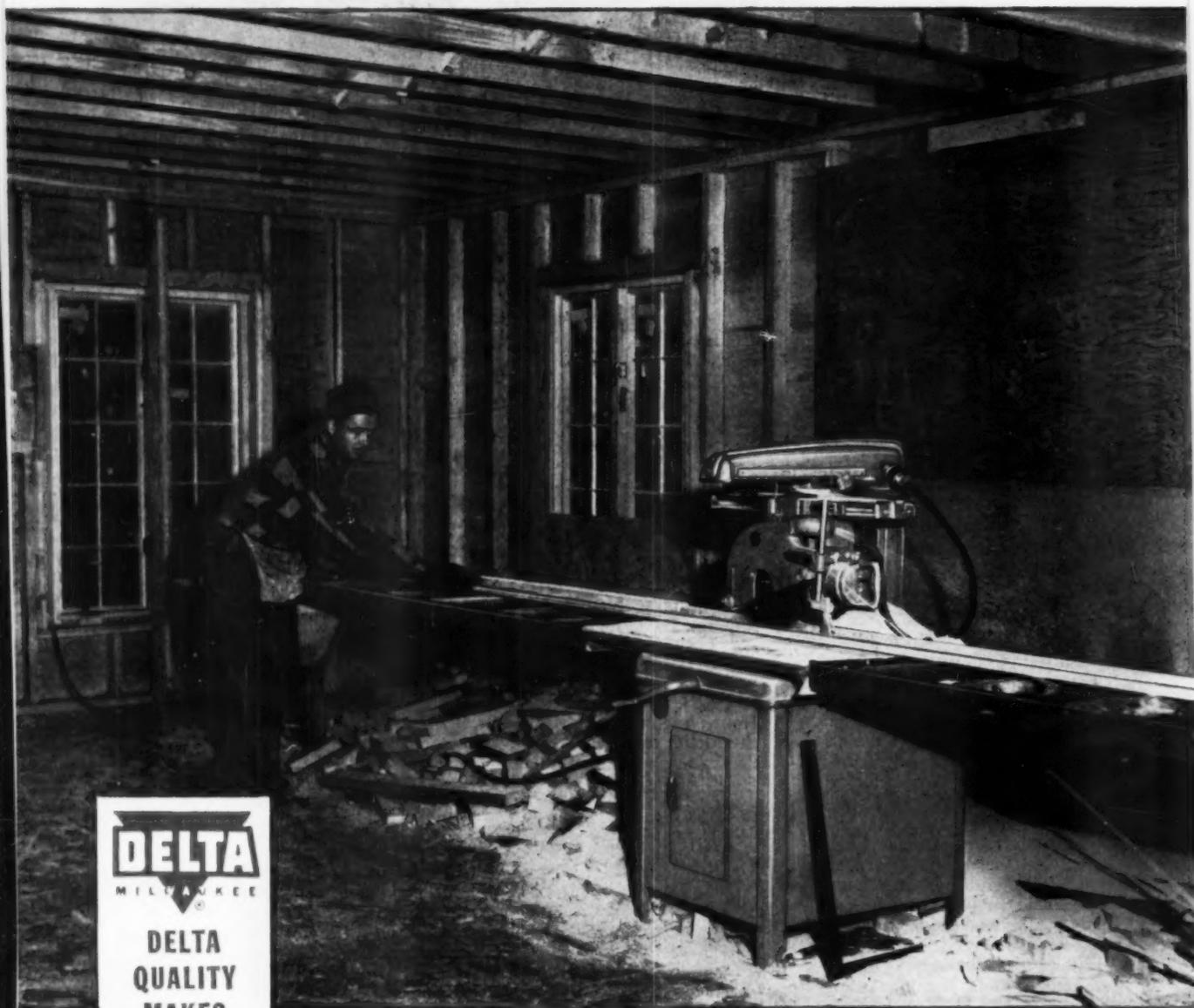
The machine's usefulness is further expanded by other attachments — changes from one to another are made in 20 minutes. Write for new literature, or ask your Allis-Chalmers dealer for a practical demonstration.

ALLIS-CHALMERS

TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

WANT TO FIND

- use an on-the-job



DELTA
MILWAUKEE

DELTA
QUALITY
MAKES
THE
DIFFERENCE

A new house becomes a Delta saw-shop for cutting all material. An 8-foot roller conveyor section solidly mounted at each side of the saw makes work handling easy.

\$200 PER HOUSE?

DELTA Radial Saw —

says **JACK CARUANA**

Buffalo builder saves at least that in "mill time" alone

One man operating a Delta radial saw cuts all the rough material for a house—everything from foundation to trim—in about 24 hours, saving at least \$200 per house in "mill time" alone, says Jack Caruana, veteran home and subdivision builder of Buffalo, New York. Saw output includes studding, joists, hip-rafters, door and window frames, cabinet members and the like. All other sawing is practically nil.

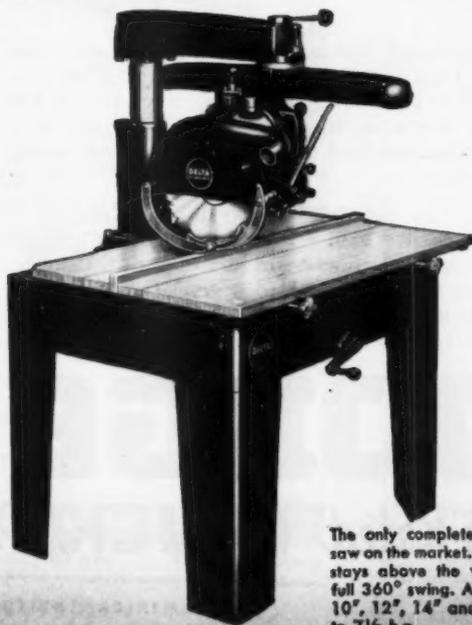
Actually Caruana's radial saw pays for itself over and over again every time two more houses go up.

"Stop in any time we're building and you'll find the saw running," says Caruana. "It never gets a vacation—never needs one. Maintenance—none."

This is the new secret weapon with which alert builders are conquering costs: Delta tool installations *at the job*. Why not find out about it—to your own handsome profit? Ask your Delta dealer, listed in the Classified Phone Book under "Tools" or "Machinery," and send the coupon for the new Delta Catalog.



Accuracy saves time, too. Caruana points to clean, close fit of hip-rafters pre-cut on the job by the Delta saw. No time wasted in "fitting."



The only completely new radial saw on the market. The saw blade stays above the work table on full 360° swing. Available in 8", 10", 12", 14" and 16" sizes, ½ to 7½ h.p.

DELTA QUALITY POWER TOOLS
Another Product of **Rockwell**



Delta Power Tool Division
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... says Ernest Lane,
Co-owner, Berry & Lane,
Napa, California

How new Dodge “Job-Rated” trucks boost your hauling profits

More money-making payloads!—Just put a Dodge to work for you and watch it go to town on those hefty loads of lumber! Ideal weight distribution lets you carry bigger payloads without overloading. And, thanks to shorter wheelbases and wider front treads, an easy-handling Dodge can wheel through deliveries in less time with less effort. Enables you to make *more* trips per day!

More power-packed performance!—Get the right power for *your* job with a Dodge “Job-Rated” truck! Big, burly engines—from 100 h.p. to 171 h.p.—let you tackle toughest hauls with confidence! New super-safe brakes in 1-through 4-ton trucks . . . no-shift Truck-o-matic transmission available in $\frac{1}{2}$ - and $\frac{3}{4}$ -ton models! Your friendly Dodge dealer will gladly give you all the money-saving facts . . . and he'll make you a mighty good deal!

“To transport building materials at a profit, our trucks have to be as dependable as they are economical to operate. That's why we have bought five Dodge trucks in the last year—everything from $\frac{1}{2}$ -ton to 2-ton. And we're going to keep on buying them, too!”

“Our Dodge ‘Job-Rated’ trucks do a real, man-sized job for us. We haul material as fragile as window glass and as tough as beam lumber with equal ease in them. Believe me, Dodge trucks are certainly rated to *our* job!”

DODGE

“Job-Rated” TRUCKS



"best of all" POWER TOOLS

**Model 72
MALLSAW
\$64.50**

- 7-inch Blade
- Compact Design
- Rugged Construction

Here's one of the many MALLSAWS you can choose from to meet your exact requirements. This 7-inch blade model has a cutting capacity of 2 3/4" — cuts a 2x4 at 45°. Its many features include: automatic telescoping blade guard, precision, heat treated gears, depth and bevel adjustment and rip guide.



**Model 128
MALL DRILL
\$34.95**

- 1/2" Capacity
- Abundant Power
- Lightweight

For holes-in-a-hurry (big or small) this famous MALLDRILL does a real job. Powerful motor—yet lightweight. Geared chuck, interchangeable handle, locking trigger switch, polished finish. Use in wood, masonry or steel. Converts to hole sawing, grinding, sanding, many other applications. Send for full details on Model 128 and the complete line of MALLDRILLS and MALLSAWS for the building trade.

40 Factory-Owned Service Warehouses, Coast to Coast, To Serve Our Customers and Thousands of Dealers.



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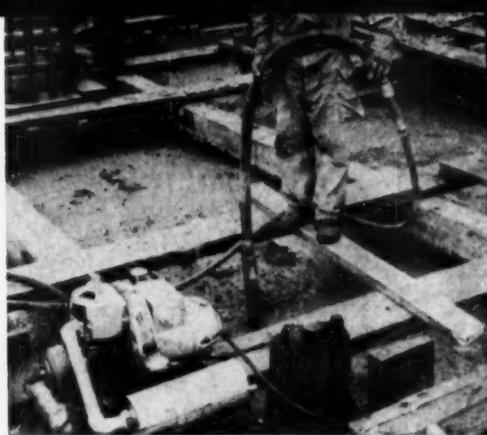
7732 S. Chicago Ave.

Chicago 19, Illinois

APRIL 1953



Above: Shield Bantam Photo; Upper right: Chicago Pneumatic Tool Co.



The easy maneuverability of this truck-mounted crane saves time and cuts costs on many construction jobs. Concrete vibrator (above) makes it possible to compact harder and better grade concrete at less expense and with easier access than by old hand-puddling methods. Floor laying is easy one-man job.

(Continued from page 97)
of the hoist mechanism. Gears, chains and cables should be enclosed wherever possible.

Cranes, because of the suspended load hazard and the relatively large working area involved, present particular problems. Safe loads must not be exceeded. The operator must be familiar with the allowable safe loads for different angles of the boom; many companies insist that charts showing safe loads for different boom lengths and angles be posted in the cab. Cranes must set level, on solid footing. If a truck crane with outriggers is on the job, these must be extended and blocked before hoisting materials. Many contractors install an electrical warning device to ring a bell when the angle of tilt of the crane becomes excessive.

Men working with crane operators should be familiar with the standard crane signals, and crane operators should move loads only upon instructions from the designated signalman where the load cannot be seen clearly from the crane cab. While there is some variation in different localities and companies on crane signals, those shown in the accompanying illustration are generally accepted in

construction work.

All clutches, gearing, sprockets, etc. should be guarded in the cab. It has also been suggested that a wire mesh heavy screen be installed between the winding drum and the operator's cab for protection in the event of cable breakage. Cables should be inspected weekly, and replaced when excess wear is evident, as determined by someone familiar with the work, and having authority to direct such changes. Grapple hooks which show any deformation should be discarded and replaced, as the internal structure is weakened by reforming the hook.

Trucks

Only qualified drivers should be permitted to operate trucks. In construction work, trucks are commonly of the heavy duty type, and safe operation demands better than average physical strength as well as driving skill. Each driver should know and comply with all local and state laws concerning truck operation. If a chauffeur's license is required, this should be obtained and carried at all times.

Passengers should be carried on trucks only on the seat next to the driver, except under other conditions as specified below. Riding on the running boards, fenders, or

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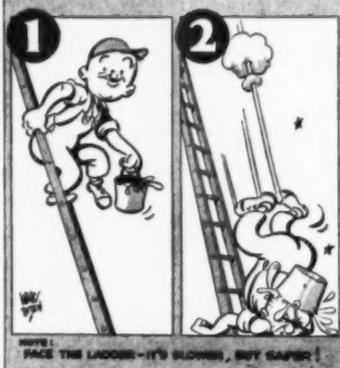
The "ABRASIVE GUIDE FOR FLOOR SANDING PRODUCTS" is full of handy information, net prices, etc. Address Dept. AB-4.

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HOW TO DESCEND A LADDER..
IN TWO STEPS -



Courtesy National Safety Council

bumpers of the truck is not to be allowed at any time. If the truck is used for transporting men, fixed-in-place, but readily removable seats should be provided. It has been found that seats running lengthwise of the body are safer than those running crosswise. A tailgate or crossbar at the back of the truck should be high enough so that men may not use this as a seat. If a truck without seats is used for transporting men, men should be seated on the floor of the body, not standing or sitting on the sides.

Truck tires are subjected to severe usage. Tire changing, removing of tires from rims, and replacing and inflating should be done only by men familiar with this procedure. If the driver adds air to the tires during the day's work, he should protect himself against a bursting tire by keeping the face averted from the tire, and by using the fenders or the body of the truck as a shield.

If trucks are fitted with power take-offs, these should be used only by authorized workmen. The same safety precautions covering the general operation of winches will apply to this work.

Scaffolding

Scaffolding of many types is essential to construction work. The use of scaffolds exposes workmen to definite hazards associated with overhead work. Resulting accidents, usually of a serious nature, include falls of persons and damage or injuries caused by falling objects. The importance of preventing such types of accidents is shown by the fact that falls and falling objects account for one fourth of all accidents and one third of total compensation costs. Good design and construction

dictates that a scaffold be designed to carry at least four times the anticipated load. The erection and removal of scaffolds should be done by men experienced in the work, having enough knowledge of design to insure safety in use. The use of make-shift materials such as boxes, barrels or other unstable materials as supports for scaffolding is not allowable at any time. When scaffolds are erected over sidewalks or other pedestrian areas, suitable protection must be arranged. Suitable means of access, such as ladders, ramps or runways are necessary. Portable ladders are not recommended for scaffolds over 12 feet in height. If used, both top and bottom should be secured, and the top of the ladder should extend at least 3½ feet above the scaffold.

Prevention of scaffold accidents includes more than sound design and construction of the scaffold. Accidents occur on the best scaffold if unsafe practices are permitted in their use. For scaffold work, the first rule should be the selection of men physically and mentally suited to high level work. They should be placed under the supervision of alert and safety minded foremen.

During recent years the use of tubular steel scaffolds has greatly increased. They are recommended, especially for heights of five or more stories. They are fireproof, easily erected and dismantled, and have low wind resistance. This type of scaffolding may either be purchased outright or rented. If rented, the rental may include erection and dismantling.

SETTING UP LADDERS

1. In raising a long ladder, have someone hold the base if possible. Otherwise, tie the base or block it against something solid.
2. Raise extension ladders to the vertical position (or against the wall) before extending. Leave ample overlap between sections: for extended lengths up to 38 feet, 3 feet; 38 to 44 feet, 4 feet; and 44 to 55 feet, 5 feet.
3. Place the ladder feet parallel with the top support and on a solid footing.
4. Set the ladder at the angle indicated in the sketch. (The side rails should extend 3½ feet above a top landing.)
5. Tie the ladder or have someone hold it if used where likely to shift, on roofs or high places, or if the indicated angle cannot be observed.



SAFETY INSTRUCTION CARD No. 16
National Safety Council PRINTED IN U. S. A.

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"BIG LEAGUE"
PERFORMANCE**



**One-Hand Control
No chucking problems
or coupling difficulties**

**Milwaukee
SAWZALL**

PORTABLE ELECTRIC HACKSAW

Cutting thousands of square feet of **corrugated aluminum sheets** used in the construction of Milwaukee's new mammoth Stadium presented a real problem for us . . . said Mr. G. J. de Gelleke, Jr., . . . prominent midwest acoustic contractor who handled this job.

"Working against time, we were really up against it trying to make progress on this big job . . . that is, until we bought our Milwaukee SAWZALL. This wonder tool quickly solved our sawing and progress problems . . . and practically eliminated the element of sawing fatigue. We gang-cut sheets in jig time and the usual difficult job of making intricate cuts for fitting around pipes, ducts, etc., was turned into a simple, easy task with our SAWZALL.

Investigate the 101 time-saving and cost-cutting possibilities the SAWZALL offers in your own operations. It is the type of heavy-duty sawing tool you've long wanted . . . and one you can't afford to be without.

Call your Distributor or write us for complete information . . . Ask for Bulletin SW-5.



**MODEL
414**

1. Single Unit, all-purpose portable electric hacksaw.
2. 2250 strokes per minute (3/4" stroke).
3. Lifetime lubricated . . . ball and roller bearing equipped.
4. Famous Milwaukee-Built heavy-duty motor-110V AC or DC.
5. Lightweight . . . only 6 1/2 lbs.
6. Fully guaranteed.
7. Blades for cutting all materials.

\$84⁵⁰

Complete with Steel Carrying Case and Blades for cutting all materials

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APRIL 1953

103

BRADFORD

Metalmaster

ELECTRIC SAWS

give you

- EASIER HANDLING
- SMOOTHER SAWING
- FASTER WORK



Model 160—6" Saw

(Can be furnished with blade on right or left side)

Vertical depth of cut 2"
Bevel cut at 45°: 1 1/4"
Net weight 10 lbs. 8 oz.



Model 180—8" Saw

Vertical depth of cut 2 29/32"
Bevel cut at 45°: 2 1/16"
Net weight 17 lbs. 8 oz.

Bradford Electric Saws deliver the performance that craftsmen like. With their rugged construction, full power, and advanced design, they make the toughest sawing job seem easy. The fine balance and comfortable grip—the light weight of Bradford saws—mean faster work with less fatigue.

Bradfords are built to last. Ball bearings with permanent lubrication are used throughout. Gears are helical cut to give maximum driving power. Powerful 110 volt AC/DC motor drives the blade with quiet, cool-running efficiency.

It pays to handle these highly efficient Bradford Saws. Write for complete details of the Bradford dealer plan.

The
Bradford Machine Tool Co.

654 Evans Street
Cincinnati 14, Ohio
Precision since 1840

Ladders

Ladders should not be used as working bases except for short periods of time for light work, or in case of an emergency. Ladders, whether purchased or made on the job, should be of sound straight lumber, having side rails suitably in proportion to the length, and with strong, securely fastened cleats or steps.

All workers on the job should observe precautions in the use of ladders:

1. Place ladders so that the distance from the wall to the foot of the ladder is about one-fourth of the ladder height.

2. Do not use ladders as a scaffold or runway in a horizontal position. Ladders are not designed to carry loads in this fashion.

3. Never place a ladder in front of a door which may open toward the ladder unless the door is locked, blocked, or guarded.

4. Do not place a ladder against a window sash or pane. Fasten a board across the top of the ladder to give a bearing at each side of the window.

5. Place portable ladders so that both side rails have even footing. Provide solid footing on soft ground to prevent the ladder from sinking.

6. Never lean a ladder against an unsafe support—loose boxes, barrels, or a round object.

7. If you use a ladder on a roof, securely lash or fasten the ladder to prevent slipping.

Hand Tools

Despite the increasing use of power equipment, many building operations are performed with hand tools, which are still the source of countless injuries. When

a hand tool is misused or not in good condition, it becomes hazardous, and may cause injury to the user or some other person.

Behind all hand tool accidents there are one or more primary causes:

1. Use of a wrong or improvised tool, such as a file for a pry, or a wrench for a hammer.

2. Use of a defective tool; a chisel with a badly mushroomed head, a dull saw, or a sledge with a split handle.

FREE BOOK!

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YOU, TOO, CAN START A \$40 A DAY BUSINESS IN YOUR SPARE TIME!



Andy Phillips says: "My BELSAW CIRCULAR SAW SHOP gives me BIG PROFITS

at LOW expense . . . I can run 35 to 40 saws in an 8-hour day . . . That make's me \$40 cash."

You can start this REPEAT CASH business in your own home or garage, while you are working at your regular job. Easy to operate, no experience needed. "Pays for itself from just 65 saw jobs."—Harvey Jensen.

For as little as \$15 down payment, you can get your BELSAW CIRCULAR SAW SHOP rushed to you.

You can make \$4 to \$5 an hour in your SPARE TIME sharpening and setting CIRCULAR SAWS for builders, lumber yards, factories . . . No Extra Equipment needed, no canvassing . . . send postcard for your Free Copy of "Life Time Security" today.

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4503 Field Building Kansas City 11, Mo.



Alis Chalmers Photo

Diesel-powered crawler tractor filling in around basement.

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STRONG...

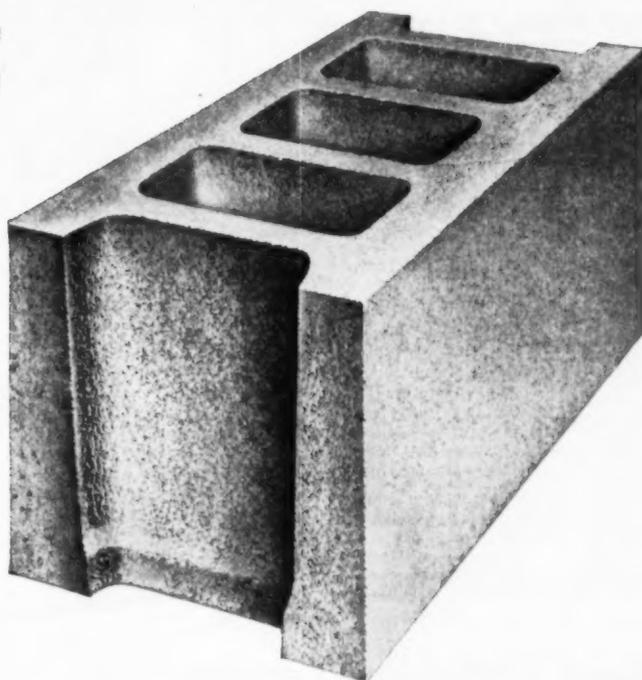
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UNIFORM...

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THAT'S WHY LITH-I-BLOCK BUILDING COSTS LESS!

Quality in the concrete masonry you specify is directly measured in dollars and cents saved. And, with Bonus Quality Lith-I-Block, you will achieve the greatest savings, every time for this Prince-among-block gives you three-way superiority that assures a bonus value for every dollar you spend.

Lith-I-Block is accurate in every dimension so that masons can work faster with far better results. It never requires costly and time-consuming cutting and fitting and its smooth, true edges present no handling problems. As a result, you accomplish a savings in labor alone that is

reason enough to specify Lith-I-Block for every job. But Lith-I-Block quality doesn't stop there! It has an almost unbelievably uniform texture . . . a surface quality that makes the most beautiful wall you've ever laid eyes on. And your Lith-I-Block wall not only excites a craftsman's pride in good work, it also pays an extra bonus in customer satisfaction that builds your reputation and your business.

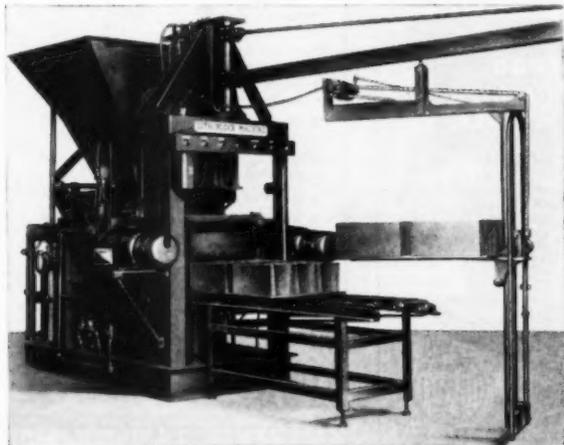
Another Lith-I-Block bonus that will pay you many times over is its rock-like internal strength. No matter what aggregate you prefer or what type of block your job calls for, you can be sure that your Lith-I-Block manufacturing process agitates the aggregate as it is fed into the mold box so that every nook and corner is properly filled. There are no lumps or voids to create weak spots and cause you grief when the job is done.

Yes, Lith-I-Block is good to look at, easy to handle and thoroughly reliable. It is the quality block that is made to serve best in modern building . . . and save you money at the same time.

WRITE FOR THE NAME OF YOUR NEARBY LITH-I-BLOCK PRODUCER

LITH-I-BLOCK

Lith-I-Block is made to rigid quality standards on Machines manufactured by the Lith-I-Bar Company, Holland, Michigan.



"TROUBLE SAVERS"
save time,
too!



LADDER JACKS

- ONE-MAN Ladder Jacks (left) adjust to any pitch on either side of the ladder.
- Weight distributed on three rungs.
- New, rail-type jack (right) uses side rails of ladder for extra safety.

Write for Catalog M: complete information on all "Trouble Saver" Scaffolding Accessories.



SCAFFOLD BRACKETS

- Erected and dismantled faster than you can build a make-shift wooden scaffold.
- 3 and 3½ ft. lengths—rail carbon steel.
- Nail, studding and bolt-attached types.
- Attachments to convert any one type to any other type.

Manufacturers of
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Only straight-line action sands with-the-grain—produces a satin-smooth finish free from cross-grain scratches and swirl marks. That's why contractors and builders find Dremel Sanders best for finishing wood panelling, cabinets, flush doors, woodwork, dry wall joints, stairways, custom furniture, etc. Light weight (only 5 lbs.) and convenient one hand operation eliminate fatigue on vertical and overhead sanding. Has a production-sized (21-sq. in.) sanding pad—develops 14,400 sanding strokes per minute. Fully guaranteed. Approved by Underwriter's Laboratory.

THE WORLD'S FINEST FINISH SANDER



MODEL 2000 PRICE INCLUDES—

This all-steel case for easy portability to and from jobs. Also 25 assorted abrasive sheets and a sheepskin polishing pad.

\$24.50

If your Dealer cannot supply, order direct from factory.



110-120 V., A.C.

DREMEL MFG. CO., 2414-18th St., Racine, Wis.

Write for FREE Dremel Power Tool Catalog.

COLD CHISEL CAUTIONS

1. Use only tools in good condition. Never use a burred chisel or a hammer with a mushroomed head.

2. If the chisel is not properly tempered or sharpened for the job, or if it is defective in any way, return it to the tool room.



3. Wear goggles protecting your eyes from flying particles.

4. The safest way to hold a cold chisel, whenever possible, is between the thumb and forefinger, palm up. (See Diagram "A".)

5. If the tool is gripped in the fist (as in Diagram "B") and a blow misses the chisel head, this is almost sure to result in painful and sometimes permanent injuries to your knuckles and hands. (Black spots on the diagram indicate where these injuries can be made.)

6. Do not attempt to hold a cold chisel if your hands are numb with cold, especially if another person is wielding the hammer or sledge.

7. Protect other persons from flying chips by placing suitable screens. Two men chipping on the same material should work back to back.

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National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

3. Incorrect use of tools; failing to take a practice swing with a sledge, pulling on pliers in line with the face, or striking two hard-surfaced tools together.

4. Failure to put tools away; a crowbar left where it may be tripped over, a chisel left on a bench, or a hammer left near the edge of a wall

Safety pointers in connection with the more common hand tools may be briefly mentioned:

Chisels. Cold chisels should be adequate in size for the work so that they will not spring or buckle when struck. The point should be kept sharp, ground to a 60 degree angle. Some workers prefer to

WRENCHES



1. Use wrenches that are the right type and size for the job. Never use a piece of pipe on the handle to get more leverage.

2. Use only wrenches having jaws in good condition; keep pipe wrench jaws sharp and clean.

3. Never use a shim to make the wrong size wrench fit the nut.

4. Do not use a wrench as a hammer. It weakens it.

5. Always place the wrench on the nut so that the pull on the handle tends to force the jaws further onto the nut.

6. Pulling on a wrench is safer than pushing. If you must push, keep your knuckles in the clear.

7. Avoid falls; see that your footing is good before you pull.

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Clipper
LAYS DOWN THROUGH
BLADES

**HERE'S WHY...
"4 OUT OF 5"
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- CUT FASTER
- LAST LONGER
- AT LOWER COST

Clipper Superior Blades are guaranteed to...
"Provide the Fastest Cut... at the Lowest Cost!"

MODEL C-130
ONE OF 5 MODELS
GAS OR ELECTRIC
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MODEL HD
15 MODELS
PRICED FROM
\$265

Clipper Superior Blades are manufactured under rigid control... assuring consistent quality. You are guaranteed peak performance... at the lowest possible cost with every blade.

CLIPPER BLADES to fit Every Make and Model Masonry - Concrete - Hand Power Saw

Your guarantee of the finest, fastest, most economical masonry and concrete cutting is the familiar Clipper Trade Mark on a Wet Abrasive - Dry Abrasive - "CBR" (Break-Resistant) - or a Diamond Blade.

Nearly 20 Years Experience Behind

Genuine

CLIPPER PRODUCTS

The unqualified Clipper guarantee of satisfaction is backed by nearly 20 years of world-wide experience, the ability to select the finest materials and the "know-how" to put them together.



ABRASIVE

LOOK for the BRIGHT ORANGE COLOR and the TRADE MARK CLIPPER



MR. CLIPPER

DIAMOND

Today!... try the NEW - Faster Cutting - Economical CLIPPER SUPERIOR BLADES

Why guess about performance? Why experiment? Why take a needless loss? At our 24 locations you will find a Clipper Specialist who can tell you exactly which Clipper blade will give you the fastest cut at the lowest cost on your materials.

"CBR" Break-Resistant

Clipper
LAYS DOWN THROUGH

Clipper

ABRASIVES

Any masonry material can be cut in seconds with either a "WET" or "DRY" specification. New type Clipper Abrasive Blades approach the cutting speed of diamonds.

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No other means of masonry or concrete cutting can equal the cutting speed of a Clipper Diamond Blade. Only Clipper has every necessary specification to do your cutting job.

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"CBR"

Break-Resistant

Drop - Bend - Twist they're virtually unbreakable! 50% to 100% longer blade life on softer ranges of materials. Ideal for both masonry and hand power saws.

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- CLIPPER ABRASIVE BLADES
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- CLIPPER DIAMOND BLADES - MASONRY
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CITY _____ STATE _____



**BUILD PROFITABLY
and SAFELY with Safway tubular steel
scaffolding—first in the field**

SAFE SCAFFOLDING MEANS FAST, ECONOMICAL BUILDING. Safway scaffolding is safer in more ways than any other scaffolding you can mention. Thousands—yes, thousands—of construction firms, contractors, industrial firms are using millions of dollars worth of Safway scaffolding to speed their construction projects safely and efficiently.

For more information contact the Safway representative in your city, or write to Safway Steel Products, Inc.

Tower of Strength



Workmen safely reach into the sky 75 feet high. They're using Safway scaffolding to dismantle a heavy steel stack in Minneapolis. Safway carbon steel frames are solidly joined with wing nuts to tubular steel cross braces for strength. All welds are made by master welders.

Corrosion Resistant



Weather and corrosion won't hurt the Safway scaffolding used in this 185 foot ski slide in Los Angeles. It's corrosion and rust resistant. Special phosphate bath converts surface of Safway steel scaffolding to non-metallic oxide. Baked-on weather resistant paint gives extra protection.

Assembled to Fit Contours



Standard Safway equipment is easily assembled to fit the curved bow and sloping sides of this vessel at the U. S. Navy yards. Only a few basic types of interchangeable members are needed to assemble scaffolds of any required shape and height.

Time-Saving and Safe



No wonder builders like balanced Safway steel scaffolding! It's engineered for structural stamina. Easy-to-assemble units speed erection of scaffolding and make dismantling simple. Pictured here is the lowest cost steel scaffold on the market for loads up to 50 lb. per sq. ft. with heights up to 40 ft.

SAFWAY STEEL PRODUCTS
INCORPORATED
6221 West State St.
MILWAUKEE 13, WIS.
Manufacturers of Tubular Steel Scaffolding and Equipment

**RENTED and SOLD
by distributors
everywhere**

round off the corners of the cutting edges to prevent breaking and flying chips. Chisel heads which have mushroomed should be ground down before being used. Goggles should be worn when chipping concrete, cast iron, or other brittle material.

Wood Chisels. Wood chisels should always be used so that the direction of the force is away from the body of the user. Chisels must be kept sharp; a dull chisel is more likely to bind or slip, throwing the workman off balance. The work being cut should be securely held, free of nails and knots.

Saws. Saws should be carefully selected for the work they are to do. They must be kept sharp and set to prevent binding and slipping when starting a cut. A safe way to start a saw is to first take an up-stroke, guiding the saw with the thumb and forefinger of the left

PIPE WRENCHES

AVOID skinned knuckles, broken bones, serious back strains, and falls by observing care in the use of pipe wrenches. Here are some suggestions:

1. Use only wrenches in good condition, and the right wrench for the job—never a substitute.
2. If working in a tight place, take care that the grip you use will not endanger you. Make sure there is plenty of clearance.
3. Never use an extension on a wrench.
4. Always face an adjustable wrench forward, in the way the handle is to turn. (Note the illustration.)
5. See that the bite of an adjustable wrench is taken near the middle of the jaws, so there will be teeth in front if the wrench slips. Keep the teeth sharp.
6. Do not overstrain a small wrench; or subject any wrench to a severe side strain; or use a wrench as a hammer.
7. A bent wrench, if straightened, has been weakened; get a new wrench.
8. Do not attempt to use a wrench on material that is in a machine in motion; stop the machine while working on the material.



SAFETY INSTRUCTION CARD No. 188
National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

hand, holding it at about a 45 degree angle to the work. Remove the left hand at the end of the draw stroke. The saw should not be crowded or pulled back so far that it leaves the cut, as it may buckle or break, causing injury.

Crowbars. When a crowbar is needed, the proper shape and size should be obtained. Makeshifts such as a piece of pipe or reinforcing rod should not be used, as they might slip and cause injury. The crowbar should have a point or toe of such shape that it will grip the object to be moved, and a heel to act as a pivot or fulcrum. In some cases, a block of wood under the heel will prevent slipping.

AMERICAN BUILDER

6 Jaeger machines that cut your building costs



Jaeger's shorter mixing cycle gives you more batches per day

5 to 7 seconds charging with Jaeger's "Skip Shaker" loader, equally fast discharging with Jaeger's bigger bucket and flight blades, shortens every mixing cycle, gains time for extra batches, bigger yardage every day you work.

No risk of "down time" either, in your



3 1/2 and 6 1/2 ft. Plaster-Mortar Mixers save labor and plaster

Jaeger "Power Hoe" Plaster-Mortar Mixers, with their multi-blade pug mill mixing action, supply better mixed, easier spreading material that is full strength even when carrying more sand. Equipped with Timken bearing drum shaft with Jaeger leak-proof bearing seals, bigger Wisconsin engines with automotive transmissions and drums of heavy gauge steel. 3 1/2 ft. model is big producer in compact size — only 34" shoveling height, only 29" wide.

busy season. Jaeger mixers roll on chilled Timken bearing rollers and tracks of high carbon steel machined true on the drum. Heavy duty automotive transmissions and bigger engines with power to spare give years of reliable service. Sizes 6S, 11S, 16S. Ask for Catalog M-10.



3 1/2 S Auto Loader produces more yards per day

The "Auto Loader" with Power-Shaker Hopper produces 12 to 15 more yards of concrete daily with no increase in wages. It can be loaded while previous batch is being mixed, then hopper automatically shakes load into drum in a flash. The "Auto Loader" is engineered for long life . . . machined steel drum tracks, automotive transmission.



Jaeger self-raising "hoister" tower "saves as much as \$59 a day"

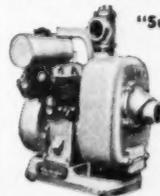
One contractor tells us of a typical example. He did the work of 10 to 12 hodders with 2 wheelers and his hoist operator.

Assembled on ground, raised by its own power and easily moved as needed on its own skid base, this 1-ton Hoister tower eliminates hodders and scaffolding. It operates either material cage or 1 yard bucket. Standard height is 37', can be extended to 67'. Automatic safety device positively prevents falling should cable break. Send for Bulletin HS-1.



"New standard" compressors

15% to 20% larger capacities (75 ft. instead of 60; 125 ft. instead of 105, larger sizes proportionate). Maintain 90 to 100 lbs. pressure at modern tools, instead of weak 70 lbs. Increase work output 30-40% with same men and tools. Catalog JC-1.



"Sure prime" pumps

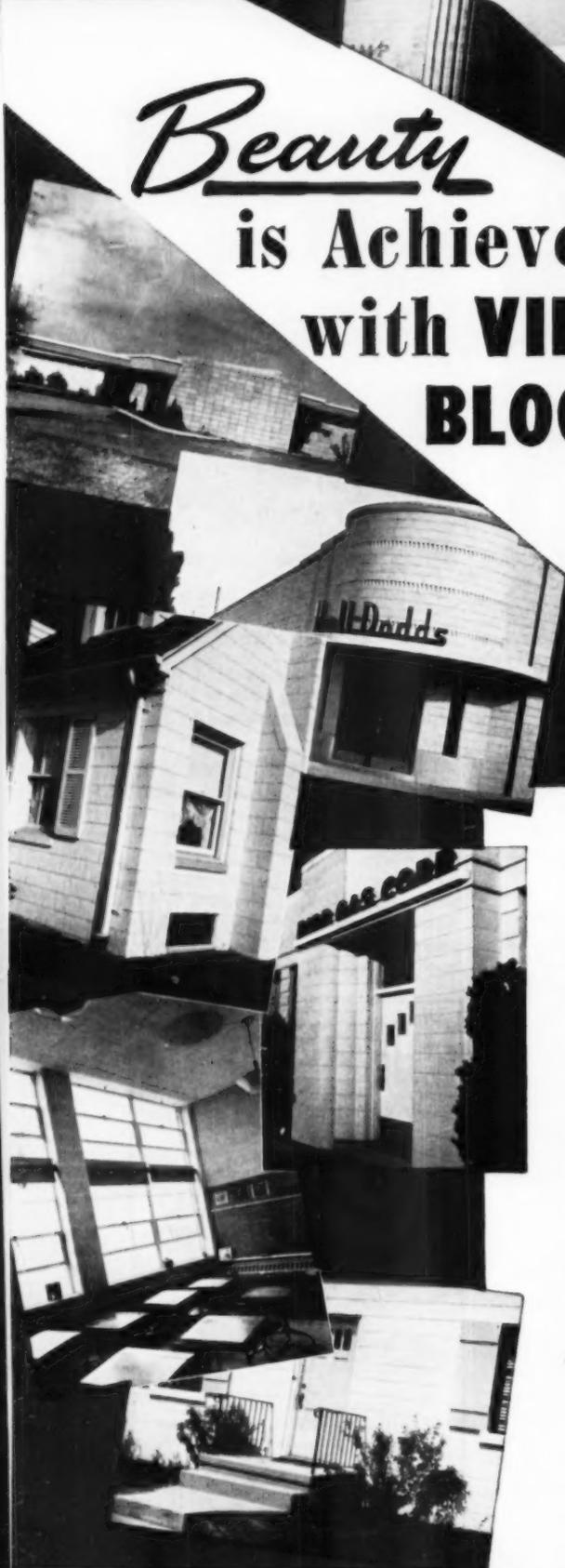
Heavy duty construction and big capacity in light, portable small units — 1 1/2" and 2" sizes in aluminum or semi-steel, 5100 to 10,000 gph. catalog P-10.

THE JAEGER MACHINE COMPANY

521 Dublin Avenue, Columbus 16, Ohio

Sales, Rentals and Service in 153 Cities of the U.S. and Canada

Beauty is Achieved with **VIBRAPAC** **BLOCK**



Today — VIBRAPAC Modular Concrete Masonry Units are available in a variety of attractive designs. These designs enable any architect or builder to originate plans that will give a home, or other building structure, both pleasing appearance and individuality.

Besser Super Vibrapac machines are versatile. They make ALL types and sizes of high-quality masonry units on ONE set of Plain Pallets. What's more, the Vibrapac machines are fast and dependable. They set the pace for modern, automatic production and handling devices, producing maximum output of high-quality block with no down time.

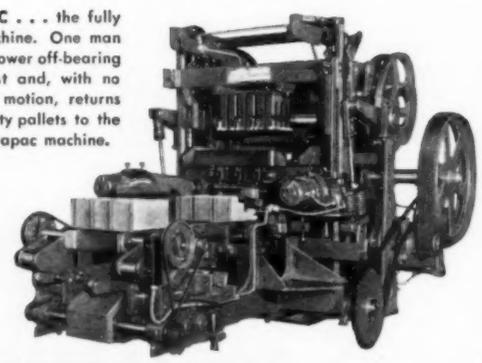
Sell your customers on the BEAUTY as well as PERMANENCE of Vibrapac Concrete Masonry for both exterior and interior construction. It assures a lifetime of better, safer, more satisfactory living.

BESSER MANUFACTURING CO., Alpena, Mich., U. S. A.

Front Pallet Feed VIBRAPAC . . . the fully automatic concrete block machine. One man removes finished block with power off-bearing hoist and, with no lost motion, returns empty pallets to the Vibrapac machine.



FREE BULLETIN — Ask for copy of bulletin illustrating the many standard masonry units that can be made on a Vibrapac.



BESSER

BATCH MIXERS

SKIP LOADERS

BLOCK & BRICK CUBERS

SUPER VIBRAPAC

SINTERING PLANTS

ACROW CENTERS

ROOF TILE MACHINE

Crowbars not in use should be stood up so that they will not fall, or laid down where they will not create a stumbling hazard.

Jacks. A jack with a high enough rated capacity for the job must be used. It is good practice to block the load being raised, to prevent its dropping if the jack should slip or fall. Jacks should be in good condition, well oiled, and should be set firmly on a solid footing. The jack handle should be removed when not in use, as it might be struck by a passing employee or vehicle, knocking the jack from under the load and causing serious damage or injury.

Wrenches. An adjustable wrench should be placed on the nut with the open jaws facing the user if possible. In this position, the force applied tends to urge the wrench onto the nut. According to manufacturers, the lower jaws on adjustable wrenches are weaker than the fixed jaws. One manufacturer found that a 10-inch wrench used in the correct manner described would take a 250 lb. pull at the end of the handle. However, when the wrench was reversed, it began to slip with 75 to 100 lbs. of pull at the handle end.

Pipe Wrenches. Many men have been injured when pipe wrenches slipped on pipe or fittings, especially when working in overhead locations on ladders and scaffolds. Jaws should be sharp and clean, and chain tongs should have both jaws and chain in good condition. The use of a wrench of the wrong size is also a source of accidents.

DRAWKNIVES



1. Keep the knife sharp. Be sure it has two good handles.
2. Place the material to be cut in a vise, if possible, where it will be held securely.
3. When shaving or trimming a timber that is too large for a vise, make sure that it is blocked securely.
4. Never attempt to brace the piece to be cut with your knee or any other part of your body.
5. When shaving or trimming a pole, elevate the pole and stand alongside while using the drawknife. Do not sit outside of the pole.
6. Hold the drawknife usually at an angle of about 75 degrees with the direction of the cut to be made, and with the bevel of the knife upward.
7. Pull the drawknife steadily toward you, taking a moderate cut rather than a deep one. Strains are caused by lunging with the knife and pulling too hard.
8. Whenever adjusting a piece of lumber in the vise, or when stopping work temporarily, lay the drawknife well back on the workbench, where it cannot fall or be touched accidentally.
9. After the job is finished, either hang the drawknife up securely, or, preferably, put it away in your kit box or drawer.


SAFETY INSTRUCTION CARD No. 454
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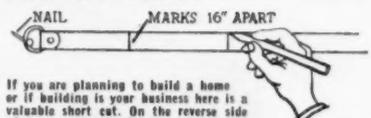
Too small a wrench will not give a proper grip or leverage. Too large a wrench may break a nut or fitting causing a slip or fall.

The use of a pipe slipped over the handle for added leverage can strain either the wrench or the work to the breaking point. Wrench handles are designed to be long enough for the maximum safe pressure to be applied to that particular wrench.

Screwdrivers. The common screwdriver is probably the most used—and abused—tool. The practice of using screwdrivers as punches, chisels, wedges, and pries should be discouraged. If so used, they will become unfit for the work

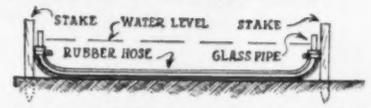
How To BY MASTER

MARK STUDS FASTER



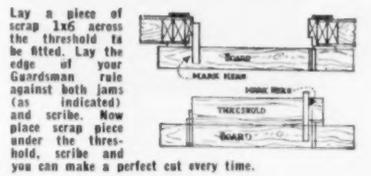
If you are planning to build a home or if building is your business here is a valuable short cut. On the reverse side of your steel tape blade, etch a mark every 16 inches, the length of the blade. Then when you are placing rafters, joints or studs you have only to look as indicated, roll out and mark.

FOR ACCURATE FOUNDATION LEVELING



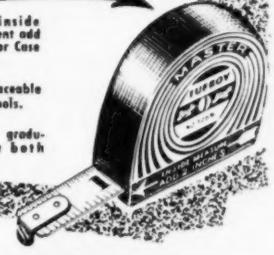
Insert two identical lengths of glass pipe into the ends of a length of hose. Fasten stakes to each end (as indicated). Fill the hose with water and insert plug into each end. Drive your stakes into the ground to get approximate level. Remove plugs and adjust stakes so water level is equal on both sides.

EASY WAY TO FIT A THRESHOLD



Lay a piece of scrap 1x6 across the threshold to be fitted. Lay the edge of your Gaardsman rule against both jams (as indicated) and scribe. Now place scrap piece under the threshold, scribe and you can make a perfect cut every time.

TUFBOY



- For an inside measurement add 2 inches for Case and Tip.
- Blade replaceable without tools.

Blade is graduated on both edges.

WHEN YOU BUY YOUR NEXT STEEL TAPE: ask the dealer to show you the new Master Tufboy rule. You get a rugged die-cast case, plus the world's most accurate and durable tape . . . and the blade is replaceable too.

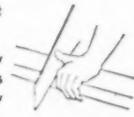
AS A SERVICE TO YOU: Each month as a service to you we will print the finest building short-cuts available. Why not make a scrap book or card index file for handy reference? If you would like detailed literature on the points discussed drop us a card. If you have a short-cut which you feel we can use send it to "HOW TO", care of Master Rule Co., Mulberry St., Middletown, N. Y. and if we use it we will send you free of charge, your choice of any wood rule or steel tape in the Master line. All entries become the property of the Master Rule Co. and will not be returned.

NAME _____
 ADDRESS _____
 Please send literature on the Tufboy
 I am enclosing a "HOW TO" item
 If you use it please send me a _____ rule.



USING A HAND SAW

1. Keep the saw sharp, teeth properly set and clean.
2. Use a crosscut saw for cutting across the grain, a rip saw with the grain.
3. Start the cut with two long slow pulls up, guiding with the thumb. (See drawing.) Then get the hand away and go ahead.
4. To prevent sticking, keep the blade true with the cut. In wet or gummy wood a little oil or paraffin may help.
5. Don't "ride" the saw. If it doesn't cut well, it may need sharpening or setting.
6. If you use one knee to steady the work, watch your balance.
7. Saw teeth can make a worse cut than a sharp knife. Handle with care.




SAFETY INSTRUCTION CARD No. 255
National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

SCREW DRIVERS

1. Never use screw drivers with split or splintered handles.
2. Always use a screw driver that fits the screw.
3. Dress the point if it is worn, bent or broken.
4. Use an awl, auger, drill, or driven nail to start each screw. On rough work use a hammer.
5. Place the work on a flat surface; do not hold it in your hand.
6. For electrical work, use screw drivers with insulated handles.




SAFETY INSTRUCTION CARD No. 257
National Safety Council PRINTED IN U.S.A.

Courtesy National Safety Council

For Fast Accurate Crane Work...



**THE
BUCYRUS
ERIE
22-B**

Erecting structural steel, pile driving, placing and removing forms, loading and unloading construction materials and equipment — these are just a few of the many construction applications of a Bucyrus-Erie 22-B crawler crane. And it can do each job for you at considerable savings in time and money. Here's why:

High Maneuverability lets the 22-B work anywhere you want it, whenever you want it.

Independent Boom Hoist permits boom angle to be changed while machine is swinging or propelling, while load is being hoisted or lowered.

Accurate Reliable Boom Control with both raising and lowering full power-controlled by one lever makes it easy to maintain fast operation. A friction clutch on front drum shaft controls hoisting with speed governed by engine throttle. And, an automatic silent ratchet pawl prevents boom from lowering faster than front drum shaft is turning with consequent light service on brake.

Open-Throated Boom makes it easy to rig for 2, 3, or 4 parts of line without taking off sheave guards.

55E53

**BUCYRUS-ERIE
COMPANY**

SOUTH MILWAUKEE • WISCONSIN

Quickly convertible to dragline, clamshell, shovel, and drag-shovel, the 22-B has many additional applications on construction projects that will mean added savings for you.

Write for complete information today.

they are intended to do. Moreover, a broken handle, bent blade, and dull or twisted tip may cause the screwdriver to slip and cause a serious hand injury.

A screwdriver tip should fit the work. A sharp, square-edged bit will not slip as readily as a dull one, and requires less pressure. Tips which are rounded or dull should be filed rather than ground, as the heat from grinding may draw the temper. Insulated screwdrivers should be used on live electrical work—a practice which should be generally avoided if possible.

Hammers. Hammer handles should be securely fastened to the head with wedges or screws. The handle should be of the correct size and length, smooth, and properly shaped to fit the hand. Selection of the right hammer is important. One that is too light is as bad as one that is too heavy—both are hard to control. Carpenters' or claw hammers are designed primarily for driving nails, and should not be used with cold chisels or other hardened tools, as the heads are so tempered that they may chip, causing injury.

Hand Power Tools

The general types of hand power tools include:

1. Abrasive tools such as portable grinders, sanders, polishers, and bench and flexible shaft grinders.
2. Drills.
3. Saws, other cut off tools, routers, etc.
4. Assembly tools such as screw drivers, nut runners, etc.
5. Hammers.
6. Sheet metal shears.

The selection of the right tool for the job is an important factor in preventing accidents. In addition to selecting tools of adequate capacity for the work, of good quality, other factors which may be considered are:

Motor rating

Spindles, gears, bearings, etc.

Cables, plugs, grounding connections

Chuck

Weight and balance

Other limiting factors, such as the need for working in close quarters, etc.

Portable electric tools are designed as "light duty," "standard duty," and "heavy duty" according to the frequency of use cycle and the nature of the work to be performed.

(Continued on page 116)

...now it's better than ever!



the OLIVER Model "B" Crawler WITH WARE LOADER

Long considered the finest tractor-loader combination in its class, the Oliver-Ware Model "B" is now built for even greater performance. There are now 5 lower track wheels instead of 4, and the front idler wheel is considerably larger. This means you get more track on the ground, greater stability, more traction, easier handling all the way around. It means faster loading cycles, more work done per day, lower costs and more profits for you.

You still get the hydraulically-controlled Ware loader—designed and built exclusively for the Oliver

Model "B" Crawler. 110° bucket rotation and 28° "tilt back" give you a full bucket every time. Bucket level is automatically maintained when lifting load, preventing wasteful spillage. You can control speed of discharge. And, even with the "tilt back" action, you still have a 32° (from vertical) dump angle . . . a control range no other loader can surpass.

For complete information on how the Oliver-Ware Model "B" tractor loader can cut costs for you, see or write your Oliver Industrial Distributor.

THE OLIVER CORPORATION

400 West Madison Street, Chicago 6, Illinois



A complete line of industrial wheel

and crawler tractors

You can drive studs ARROW STRAIGHT
into steel or concrete with

MODEL 450 REMINGTON STUD DRIVER

*The widest power range of any
powder-actuated tool!*

The Model 450 Remington Stud Driver is the most efficient fastening method in use today. Its exclusive advantages are unequaled by any other powder-actuated tool.

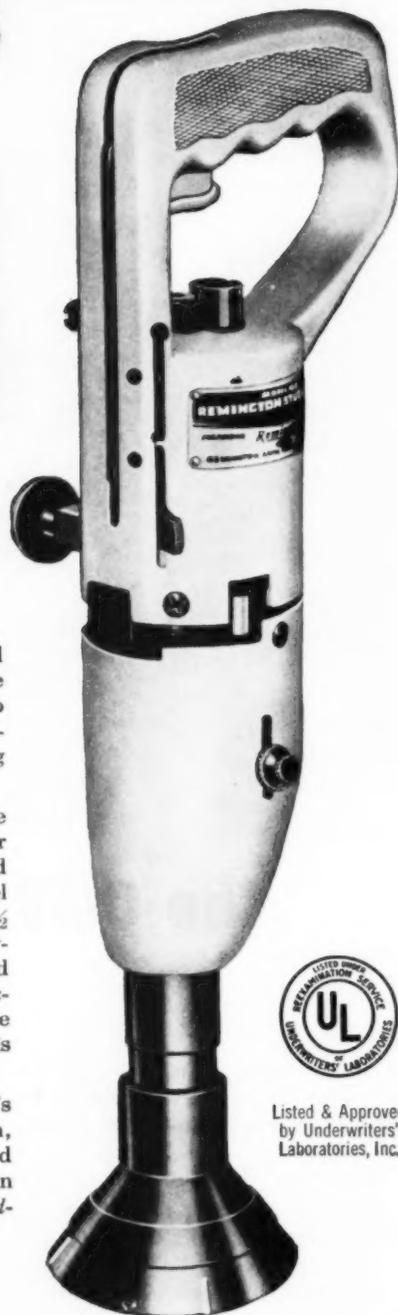
You get consistently straight driving on every type of fastening job with the long heel cap on all Remington cartridges. It acts as a perfect gas seal and provides extra power. These colored heel caps clearly mark the six different 32-caliber power loads that are available. You can select the *right* cartridge for each job quickly and easily.

The Remington Stud Driver needs no separate parts for power control or loading—nothing to lose or break. Just a twist of the wrist opens the Model 450. Insert stud and power cartridge as a unit . . . close and you're ready. Triple safe, this superior tool has a separate lever that must

be depressed and *held* with one hand before and during squeezing of the trigger with the other hand. Two *additional* devices prevent operation except in proper fastening position.

Completely self-powered, the Model 450 sets up to 5 studs per minute in fastening steel or wood structural pieces to concrete or steel surfaces. Its light weight—only 5½ pounds—makes it ideal for use overhead or in confined spaces. To speed operation further, an exclusive ejector snaps the fired case out of the tool instantly—no fumbling, no tools needed.

Test-proved to be the world's finest and speediest fastening system, the Model 450 Remington Stud Driver is made by Remington Arms Company, Inc., *America's oldest sporting arms manufacturer.*



Listed & Approved
by Underwriters'
Laboratories, Inc.

MAIL THIS COUPON TODAY

Industrial Sales Division, Dept. AB-4
Remington Arms Company, Inc.
5339 Barnum Ave., Bridgeport 2, Connecticut

Please send me my free copy of the new booklet showing how I can cut my fastening costs.

Name _____

Position _____

Firm _____

Address _____

City _____ State _____



NEW, FREE BOOKLET shows you a hundred different ways the Model 450 Remington Stud Driver can speed *your* construction fastening. Packed with illustrations, it tells you where and how this tool can save time, reduce fatigue and cut costs. Send in the coupon below for your copy.

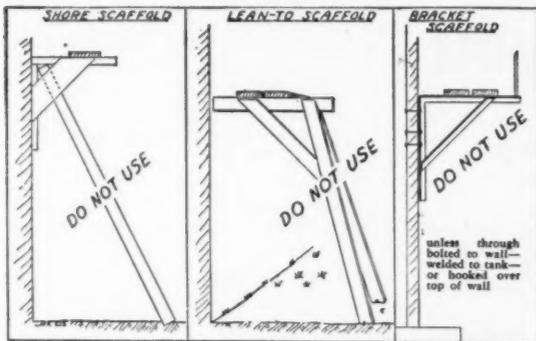
"If It's Remington—It's Right!"

Remington



AMERICAN BUILDER

DO NOT USE THESE SCAFFOLDS!



Courtesy California Industrial Commission
Types of scaffolds which should not be used.



Mall Tool Photo

This heavy portable drill may be used for construction and maintenance work. Drill has interlocking reversing switch, can be equipped to do nut-running and lag-screwing.

Working Load Limit, in Pounds, for New Heat Treated Alloy Sling Chains (based on manufacturers' specifications)

Diameter of Link Stock in Inches	Working Limit Load in Pounds for Single-Leg Vertical Sling	Double (Two-Leg) Sling				
		Degree of Angle With Horizontal				
		60 Degrees	45 Degrees	30 Degrees	20 Degrees	10 Degrees
1/4"	2,750	4,750	3,900	2,750	1,875	950
3/8"	6,600	11,400	9,300	6,600	4,500	2,275
1/2"	11,250	19,250	15,750	11,250	7,600	3,850
5/8"	16,500	28,500	23,250	16,500	11,250	5,700
3/4"	23,000	39,800	32,500	23,000	15,700	7,950
7/8"	28,750	49,750	40,500	28,750	19,650	9,950
1"	38,750	67,000	54,750	38,750	26,500	13,400
1 1/8"	44,500	77,000	63,000	44,500	30,300	15,500
1 1/4"	57,500	100,000	81,500	57,500	39,000	20,000

Note: If three-leg slings are used, the working load limits given for double (two-leg) slings may be increased 25 per cent and for four-leg slings 50 per cent, i.e., the working load limit for a new 1/4-inch, three-leg sling at 60 degrees with the horizontal is 14,250 pounds and for a new four-leg sling of the same size and at the same angle is 17,100 pounds.

Courtesy National Safety Council

HOLT
Floor Sander

Keeps Earning Money FOR YOU



HOLT NMPL12 is ruggedly constructed, easy to handle, operates smoothly. Cut selector assures right tension for rough, medium or fine cut.

DEMOUNTABLE DRUM CUSHION CHANGES IN MINUTES

Why let damaged drum cushions tie-up floor sanding 12 to 24 hours? HOLT demountable drum cushion (patented) can be replaced in minutes by the operator right on the job . . . so sanding goes on almost without interruption.

You cover more floor, too, with HOLT high-speed cutting. Sure-grip clamps keep paper "in." Self-adjusting, double belts stay tight. Correct design and dynamic balance eliminate chatter and vibration . . . assure smooth, craftsman-like work.

Do floor jobs the easy, time-saving HOLT way. For further information and name of nearest dealer, write your name and address in margin of this ad and mail TODAY.



For floors that make happy home owners, wax and polish with HOLT floor machines.



It's easy to sand edges, corners, stairs, closets, etc., with HOLT Rotary Edgers.

HOLT MANUFACTURING COMPANY

669 - 20TH ST.
OAKLAND 12, CALIF.

272 BADGER AVE.
NEWARK 8, N. J.

Ask the man behind the gun ...

Coated optics give you this ↘ not this ↘

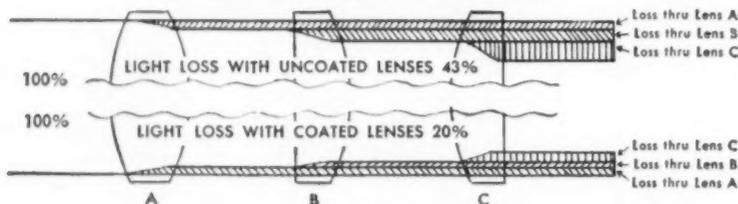


Model 3000, \$185.00,* complete with tripod.

with a White Universal Level-Transit

HERE'S what coated optics can do for you. You can put in a full day without eyestrain or headache. There's less chance for a mis-reading. You get a clear, sharp sight — not a fuzzy image. What's more, you get your reading in far less time. Check this diagram. See for yourself how coated optics pass through up to 40% more light, provide a clearer image contrast.

COMPARISON OF LIGHT PASSAGE



And there's more!

White Universal Level-Transits also offer you internal focusing, guarded vertical arc and ball bearing race which insures smooth operation, even in sub-zero temperatures. Check one out on your next trip. You'll soon be convinced a White can make your work faster, easier, more accurate. Write for Bulletin 1053. DAVID WHITE COMPANY, 311 W. Court Street, Milwaukee 12, Wisconsin.



*Prices subject to change without notice.

Expert REPAIR SERVICE
on all makes, all types of instruments

(Continued from page 112)

A portable tool presents many of the same hazards as a stationary machine, in addition to those of handling. Potential results of these conditions are electrical shock, burns, cuts, bruises, falls, strains and explosions due to the ignition of vapors by electrical sparks or friction.

These hazards can be considerably reduced by safe operating practices, choice of safe tools, and proper tool maintenance. Because of the sparks from brushes and commutator, portable electric tools should not be used in any area of inflammable gases, vapors, or dust, unless designed specifically for this work.

PORTABLE ELECTRIC TOOLS



1. Use only equipment that is in good condition. Take good care of it.
2. Be sure the tool is properly grounded.
3. Report the following unsafe conditions:
 - Defective or broken insulation on cord.
 - Improper or poorly made connections to terminals.
 - Broken or otherwise defective plug.
 - Loose or broken switch.
 - Brushes sparking.
4. Do not overstrain the tool, thus overloading the motor.
5. Never use a portable electric tool in the presence of flammable vapors or gases, unless it is designed for such use.



SAFETY INSTRUCTION CARD No. 91
National Safety Council

Courtesy National Safety Council

Fatal electrical shocks have been caused by failure of the insulation between the current-carrying parts and the frame of the tool. This hazard may be reduced by grounding the frame using three conductor power cord, by using tools having insulated exterior surfaces, by providing supplementary insulation for the operator, or by a combination of these measures.

Switches for portable tools should be well made, as no other part of the tool is probably subject to as much hard wear and tear. Switches should be of the safety type, which will operate only when held in position by the operator, and should be guarded to prevent starting by accidental contact with other objects.

Grinding Wheels. Grinding wheels mounted on the arbors of portable tools are subjected to extremes of abuse. They should be

(Continued on page 120)

AMERICAN BUILDER



Put a
HOMELITE
CARRYABLE PUMP
 on **YOUR** Job
 and **Eliminate Delays**

On any repair or construction job, water causes delays. And delays cost money . . . particularly when men have to stand around idle.

Put a Homelite Pump on the job and watch those delays disappear. In no time it *gets* to the job . . . no trucking problems, no planking, no pushing, no pulling. One man carries it and sets it up right where you need it. Quick starting . . . and with the

fastest self-priming . . . a Homelite will pump up to 15,000 gallons per hour without clogging or trouble. It draws water 28 feet and of great importance it will keep seepage at strainer level automatically.

Figure it out, with the time . . . which is money . . . saved by a fast-action Homelite it wouldn't take many jobs to pay for a Homelite. Possibly, one job would be enough. Write for a free demonstration.

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PERFORMANCE • DEPENDABILITY
HOMELITE
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Canadian Distributors: Terry Machinery Co., Ltd., Toronto, Montreal, Vancouver, Quebec.

BLACKHAWK Trench Hog

A LOW COST, MOBILE
VERSATILE, TRENCHER

A Ford or Ferguson tractor mounted, versatile, small trencher with big trencher performance, digs up to 800' per hour, with wide range of depths and widths—up to 7' deep, 20" wide. One man and a Trench Hog do the work of 40 hand laborers. Ideal for builders, plumbers, electrical contractors, utilities, municipalities and pipeline contractors.

- Depths accurately controlled, hydraulically.
- Cutters furnished in 6" to 20" widths. Easily changed to suit the job. Special cutters for tough soils and frozen ground.
- Optional equipment includes one side dirt delivery attachment to deposit spoil on either right or left side of trench.
- Crumbers available to provide clean, smooth, accurate trench bottom.
- Choice of 7 digging speeds.
- Independent wheel control for straighter line trenching and turning corners.
- Boom raises upward about 90° for transport.
- 4' bulldozer available for backfilling.

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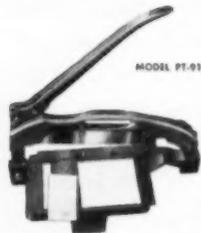
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cuts all
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cuts plastic wall tile



MODEL MPT-1
cuts and
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J.M.J. tile cutters

Tools of quality for quality workmanship. Each J.M.J. cutter is expertly and exactly designed for the types of tile designated.

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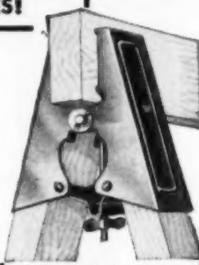
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WITH HEAVY-DUTY

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Fully Mechanical—Require No Nails,
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Sizes for 1x4's and 2x4's

- Uses:
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- Simply put lumber in jaws and leg sockets—and tighten wingnut! The members are locked rigidly in place—can't slip or work loose. Disassemble on the job for transporting and storing. Made of heavy gauge steel, fabricated for strength, rust resisting finish. At Hardware and Building Supply stores, or write—



A Twist of the Wingnut
Locks Legs and Nail
Rigidly in Place!

For a low priced, quality bracket, ask for new Spre-Dee Sawhorse Brackets

DALTON MANUFACTURING CO.
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3/4 INCH WIDE WHITE BLADE
MEASURES 10 FEET UP
without buckling!

Handy for all your measuring, the new BIG CHIEF is especially designed for extended overhead and reach-in measurements. The extra rigid 3/4-inch wide blade extends farther horizontally, and a full 10 feet overhead without buckling. Easy-to-read white blade is graduated in feet and inches.

EXTRA RIGIDITY

with these famous CARLSON features

- Double graduations feet and inches
- Ten second blade change
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- Easy-to-read crackproof white face
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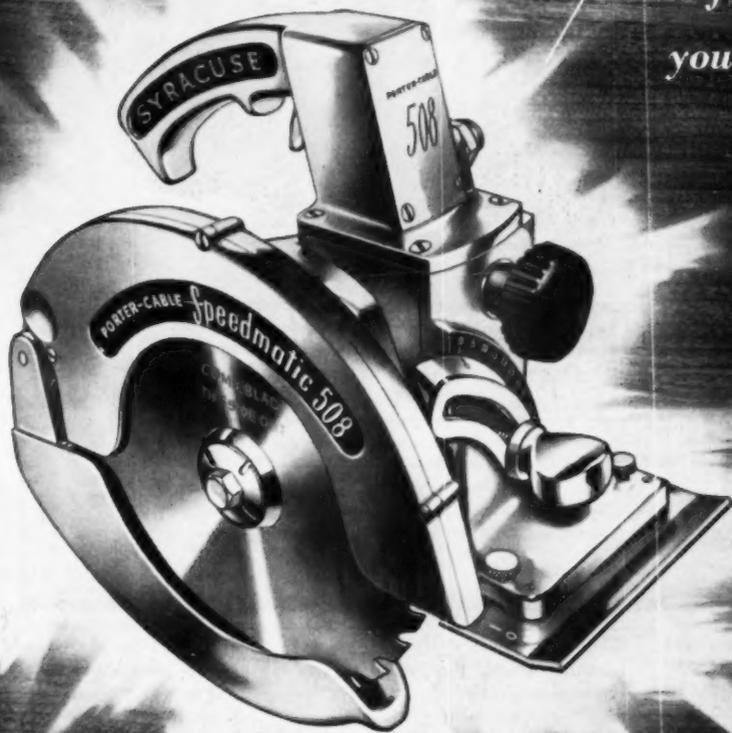
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CARLSON

AMERICAN BUILDER

Years from now,
you'll still be
using it!



ANY idea of how long a good electric saw will stand up? Five years? Ten? *Guess again!*

In Columbus, Ohio, a couple of months ago, we came across a builder who owns one of the first Porter-Cable Saws produced. It's a Speedmatic K-8, built in 1926.

Asked to comment on his saw's performance, Mr. Kerby O. Kesler told us . . . *"It has been in constant use by my men and myself for more than 25 years. This Speedmatic still cuts fast and accurate, and is capable of more years of service."*

See the latest Porter-Cable Saw—Model 508 shown above—at your Porter-Cable dealer's. Check your classified phone directory or write for name of nearest dealer. Send for free 40-page manual on saw operation.



• Like Mr. Kesler's "Oldtimer" shown here, all Porter-Cable Saws are built to last years longer. Each is given a run-in test which checks the precision, assembly and fit of all parts. We guarantee every tool is free of mechanical or electrical defects.

Porter-Cable

Quality Electric Tools

PORTER-CABLE MACHINE CO., 1004 N. SALINA ST., SYRACUSE 1, N. Y.

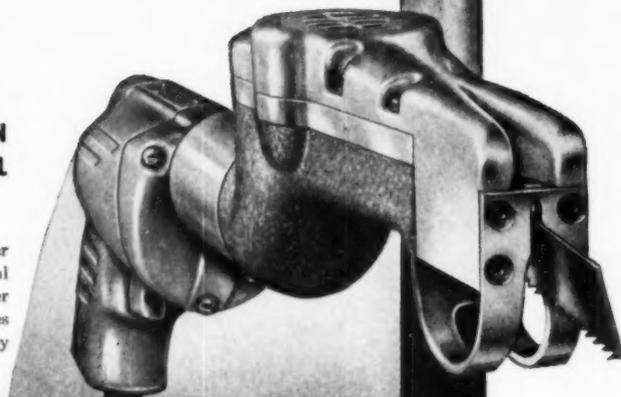
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119

R.C.S.
SUPER SAW

SAVES YOU MORE TIME, RIGHT ON THE JOB, THAN ANY OTHER TOOL IN YOUR KIT!

A Journeyman's tool, built to stand up under constant, on-the-job Contractor or industrial use. Needs no starting hole—has built-in blower — fits any heavy duty 1/4" or 3/8" drill — blades to cut all materials — listed on Federal Supply Schedules, Class 40 Materials.



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(Continued from page 116)

handed with all possible care to avoid cracking the wheel, as a wheel on bursting throws pieces with terrific force. Grinders must wear goggles and keep out of line with the wheel. Manufacturers' recommendations should be followed as to operating speeds and sizes of wheels. All grinding wheels should have guards as far as it is possible to install them.

Circular Saws. There is very little danger at ordinary speeds of circular saws bursting solely from centrifugal force. Principal dangers are from a saw cracking, from striking something, or from a tooth or several teeth breaking away. Operating speeds should certainly not be greater than those for similar size bench saws, and because of the potentially greater abuse given to

portable tools, the manufacturers' recommendation of 9,425 peripheral feet per minute should never be exceeded by more than 20 per cent.

The greatest hazard in the use of portable saws is from being cut by the blade. Most tools now on the market are designed with effective guards. The real danger exists, not while the saw is cutting through the work, but at the beginning and completion of the cut. It is most important that the guards provide effective protection as the saw enters the work, and after it leaves the cut.

Powder Actuated Hand Tools. While powder actuated hand tools are not new, they have only recently come into prominence throughout the building industry. All powder operated hand tools use

blank cartridges as a source of power. The tools are so designed that the energy created by the burning powder is confined and controlled so that it is not released until it has reached its maximum value. This action delivers an instantaneous high velocity to the pin or stud.

All manufacturers of this equipment provide safeguards against accidental discharge. Both hands are required to operate the device, and usually a spring loaded sleeve must be rotated or held in position before the firing pin can be released.

Workmen should not be permitted to operate the tool unless they are trained and authorized to do so. Manufacturers' instructions and recommendations should be carefully followed. In many cases, the manufacturer will train men for proper use in all types of work.



PROTRACTOR LEVELS

Eliminates "guessing" at difficult angles. Makes Work Easier for all tradesmen! Just one simple turn of the dial and you have the angle or drop per foot you want — quickly, easily, accurately!

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MAGNELITE LEVELS

Unbreakable frame of extruded magnesium—1/3 lighter than aluminum. Replaceable Vial Units. Available in 9 sizes — 12, 18, 24, 28, 30, 42, 48, 60 and 72 inches.

Two Great MONEY MAKERS For BUILDERS

● Here are two mixers that are real producers. They speed up work, save many man hours a year and are known everywhere for their quality and rugged construction. See your CMC distributor or write for catalogs.

WONDER "SUPER SIX" HOE TYPE MIXER



● Liberal six foot capacity. No finer machine built for mortar or plaster. Available also in lower priced De Luxe model. Smaller and larger hoe type mixers to fit any job condition.



● WONDER 3 1/2 S TILTER

The original and still by far the finest tilting mixer built. A full half-bag profit builder. Good for mortar, too.



CONCRETE MIXERS

HOE TYPE MIXERS

HIGH PRESSURE PUMPS

DIAPHRAGM PUMPS

DUAL PRIME PUMPS

BUILDERS HOISTS

POWER SAWS

JETCRETE GUNS

BATCHING EQUIPMENT

PLACING EQUIPMENT



CONSTRUCTION MACHINERY COMPANIES WATERLOO, IOWA

The correct stud and cartridge should be selected for the job. If there is doubt, a test shot may be fired, taking proper precautions to prevent injury to the operator or others nearby.

Studs should not be driven too close to the edge of brick, concrete, or wood surfaces, because of their tendency to crack. Suggested clearance is about six inches, depending on the thickness of the wall.

Masonry and concrete spall can be reduced by firing through a thin metal disc or heavy waxed paper board like a milk bottle top.

The operator should be provided with adequate face and eye protection. Persons should not stand too close to the operator. The tools should never be held horizontally or pointed at anyone, and fingers and hands should be kept from in front of the barrel. These tools should not be used in an explosive atmosphere.

Production Power Tools

Table Saws and Radial Saws. Both table saws and bench saws present a serious hazard from the blade of the saw. This can be minimized in radial saws by the use of guards which cover the blade except for the portion which passes through the work. The carriage of

the saw should return to position near the vertical column of the saw after each cut.

Bench or table saws should be at all times fitted with guards which cover the blade except when in use. A splitter in back of the blade will prevent binding of the work, with the danger of boards being thrown back at the operator with serious force.

Blades should be sharp and properly set. The correct type of blade should be used according to the work. It is both unsafe and inefficient to use ripping blades for cross cutting or vice versa, and a thin blade with little set for finish cuts should not be used on heavy rough lumber.

Operators should wear goggles at all times, and may require respirators in enclosed areas. It is better to provide an exhaust system if work is to be performed in an enclosed space for any length of time.

Several models of table saws have the blade mounted on a swinging arm, so that it is normally below the surface of the table, and is raised through the stationary work by a foot pedal or hand lever, providing an additional degree of protection.

Masonry Saws. Saws for cutting

tile, cement block, and similar masonry units with abrasive blades are rapidly replacing hand cutting of these materials. It is essential that the correct cutting blades be used and operated at the specified speeds. As these abrasive wheels are of thin section, there is a considerable hazard from flying pieces of shattered wheels. Masonry saws are fitted with rolling carriages that insure feeding the work into the blade without binding, but the rate of cutting must not be excessive, as this wears blades rapidly, and presents a breakage hazard.

Adequate ventilation is necessary because of the large quantities of dust produced. Blowers for exhaust must be set up in any enclosed location, and it may be advisable for operators to wear respirators as well as goggles in some instances.

Pipe Machines, Threaders and Cutters. Operation of pipe machinery should be restricted to properly qualified and instructed workmen, as there is considerable hazard from exposed rotating parts. Reamers, cutters, and stocks should not be held on a rotating pipe with the hands, as the tool may catch and cause serious injury. All gears and other parts of drive mechanisms should be guarded or enclosed.

BOSTROM LEVELS FOR HALF A CENTURY



No. 5 BOSTROM
Convertible Level
Detachable Compass
when desired

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

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

Carried in stock by distributors from coast to coast. Write today for literature, prices, and name of our distributor near you.



No. 4 BOSTROM
Contractors' Level

Simple,
Accurate,
Durable,
Complete

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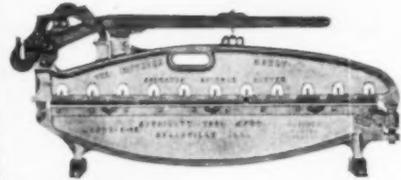
cutting wall panel with power saw



Skilsaw Photo

Worker using an electric hand saw to make a pocket cut in a wall panel. Such electric hand saws have proved real money-savers with their ability to cut sections in walls, floors, and other panels where cut must be started on the surface instead of the edge. Use of drill or key-hole saw is eliminated.

The "Improved Handy" ASBESTOS SHINGLE CUTTER



In a class by itself for efficient performance, economy and dependability.

Approved and recommended by the Asbestos Shingle Manufacturers.

SPECIALTY TOOL MANUFACTURERS

732 S. Illinois St.
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Strikingly New! No Other Electric Hammer Works Like



"Super Slugger" Neoprene "Cushion Snap"—No Kick!

"Super Slugger" has a terrific wallop — yet weighs only 7½ pounds! Its new patented "Cushion-Snap" impact motion eliminates kick, direct vibration and operator fatigue. Plug in this heavy-duty hammer anywhere — use it for drilling, chipping or channeling masonry or concrete, cutting sheet metal, stripping linoleum or plastic flooring, scaling rust and hundreds of other jobs (full line of tools available). "Super Slugger" works fast — multiplies work output. Low in cost, it is simple to maintain — will save you money. Investigate!

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Amazing DISPOSABLE Blade

Super-Hard Teeth

Patent Applied For

HEINEMANN'S New HARD-TIP Saw

Throw Away When Dull
Stays Sharp 5 Times Longer
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Remarkable... this new DISPOSABLE Heinemann "Hard-Tip" Blade. Short teeth, specially hardened, stay sharp many times longer — cut faster, smoother, quieter. Short teeth can't grab — safer to operate — requires less power. Always round and efficient — never develops cracks. Saws fine on any type machine, all kinds of work. The low price will astonish you — \$1.77 for Standard Type "C" 6 inch. Equally low prices on all sizes up to 16 inch.

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GREATEST FORD TRUCKS EVER BUILT!

For faster handling on any job, Ford Trucks have new, shorter turning. New, wide-track, set-back front axle provides sharper turning angle—easier maneuvering and parking.



Fifty Years Forward
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Deluxe cab illustrated.

Completely New for '53 FORD *ECONOMY* TRUCKS

NEW TIMESAVING FEATURES GET JOBS DONE FAST!

Ford Economy Trucks for '53 are completely new from the tires up! New cabs, new chassis, new power, new transmissions . . . every inch specifically designed to provide fast, economical transportation. New Ford Truck timesaving features GET JOBS DONE FAST . . . at still lower cost per mile!

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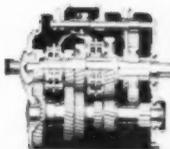
New one-piece curved windshield, 55% bigger! Wider seat, with new shock absorber. Larger door opening, push-button handles.

NEW LOW-FRICTION POWER! Choice of 5 engines . . . V-8 or Six!



Overhead valve, 101-h.p. *Cost Clipper* Six, 145- and 155-h.p. *Cargo King* V-8's—cut down on friction power waste, save gasoline. Also, 106-h.p. Truck V-8 and 112-h.p. Big Six.

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Synchro-Silent transmission on all models at no extra cost. Steering post shift on 3-speed transmissions. New *Fordomatic Drive* or *Overdrive* now available on all 1/2-tonners at extra cost.

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Please send me without charge or obligation, complete details on new Ford Economy Trucks for '53!

FULL LINE HEAVY-DUTY MODELS
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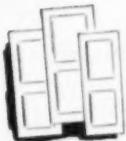
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on every one of these jobs . . .



DOORS. Cut installation time. Porter-Cable Router and Hinge Butt Temp-let enables one man to fit and hang 6 doors an hour—20 doors in half a day!



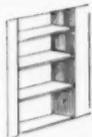
KITCHEN CABINETS. With a Router your own men can dado for shelving, rabbet doors, chamfer edges—**at substantial savings over mill-bought units.**



MOLDING. Save money—use scrap lumber. Router converts it into practically any type of simple or fancy molding, panel rails, and lattice, door and window stops, etc.



COUNTER TOPS. Build 'em yourself. Router with carbide-tipped bits quickly cuts matching joints and sink openings in Formica and other plastic laminated board.



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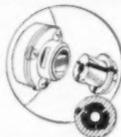
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ROUTER**

Watch how much faster your houses go up—while your costs go down!—with a Porter-Cable portable Router. Speeds up countless wood-working jobs . . . enables your men to do most of the work now farmed out . . . makes possible the low-cost addition of decorative features home buyers want.

Exclusive New Chuck Improves Accuracy. Amazing Kamgrip Chuck grips bit tighter—keeps it aligned—prevents shank damage—assures precise cuts. Exclusive on Porter-Cable Routers. Get a demonstration at your Porter-Cable dealers.



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Please send your free Router Operating Manual—also name of nearest dealer.

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Manufacturers of SPEEDMATIC and GUILD Electric Tools
In Canada write: Strongridge, Ltd., London, Ont.

SAFE LOADS FOR SLING CHAINS

Diameter of Link Stock in Inches	Work Load in Pounds for Single Leg Vertical Sling	Double (Two Leg) Sling		
		Degree of Angle with Horizontal		
		60 Degrees	45 Degrees	30 Degrees
1/4	1,060	1,835	1,500	1,060
5/16	1,655	2,865	2,340	1,655
3/8	2,385	4,130	3,370	2,385
7/16	3,250	5,630	4,600	3,250
1/2	4,240	7,345	6,000	4,240
5/8	5,370	9,300	7,600	5,370
3/4	6,630	11,455	9,375	6,630
7/8	9,540	16,525	13,500	9,540
1	12,960	22,450	18,325	12,960
1 1/8	16,950	29,350	23,975	16,950
1 1/4	20,040	34,700	28,350	20,040
1 3/8	24,750	42,575	35,000	24,750
1 1/2	29,910	51,800	42,300	29,910
1 3/4	35,600	61,650	50,350	35,600
1 7/8	41,800	72,400	59,100	41,800
2	48,450	83,925	68,525	48,450
2 1/8	55,300	95,775	78,200	55,300
2 1/4	63,300	109,650	89,525	63,300

Note: If three-leg slings are used, the safe loads given for double (two-leg) slings may be increased 50 per cent and four-leg slings 100 per cent. i. e. the safe load for a new 3/4-inch, three-leg sling at 60 degrees with the horizontal is 6,195 pounds and for a new four-leg sling of the same size and at the same angle is 8,260 pounds.

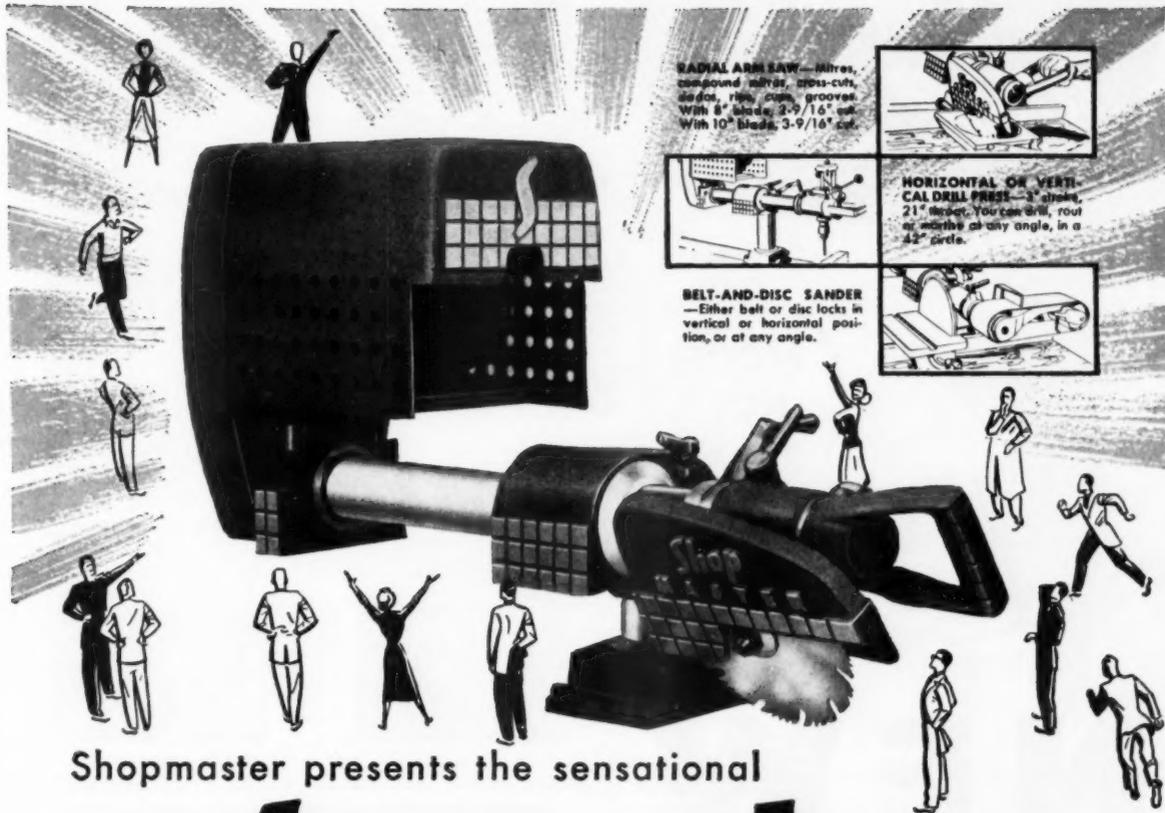
Courtesy National Safety Council

In ascending or descending ladders, workers should follow these safe practices:

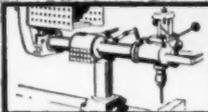
1. Use both hands going up or down. If material must be handled, use a rope.
2. Always face the ladder going up or down.
3. Be sure your shoes are not greasy, muddy, or slippery.
4. Never slide down a ladder.
5. Do not climb higher than the third rung from the top on straight ladders, nor the second tread from the top on stepladders.

Observation of the following safe practices is also important:

1. Do not use makeshift ladders, such as one made of cleats nailed across a single rail.
2. Be sure that a stepladder is fully open before you use it.
3. Before using a ladder, inspect it for defects. Do not use a defective ladder, but tag or mark it so that it will be destroyed.
4. Do not splice short ladders together.
5. Keep ladders clean and free from dirt and paint which might conceal defects.
6. Do not use ladders in a strong wind except in an emergency, and then only when securely tied or lashed in position.
7. Do not use ladder in aisles or streets without having an attendant guard it, or roping or barricading off the work area.
8. Do not leave ladders unattended, especially outdoors, unless both top and bottom are securely fastened.
9. Do not use ladders as braces, guys, skids, horizontal scaffold members, or for any purpose other than for which designed.



RADIAL ARM SAW—Miter, compound miter, cross-cuts, bevel, rip, cope, groove. With 8" blade, 3-9/16" cut. With 10" blade, 3-9/16" cut.



HORIZONTAL OR VERTICAL DRILL PRESS—3" stroke, 21" throat. You can drill, rout or shape at any angle, in a 42° circle.

BELT-AND-DISC SANDER—Either belt or disc locks in vertical or horizontal position, or at any angle.



Shopmaster presents the sensational

universal

INDIVIDUAL COMBINATION

POWER TOOL

Here at last, is a woodworking power tool so versatile, so universal in use—it amounts to a complete workshop. The amazing new Shopmaster Universal can not only do a hundred-and-one jobs formerly requiring individual tools—but it can actually perform operations *impossible with any other tool!* Built to Shopmaster's usual standards of precision workmanship, this new Universal is a power tool worthy of the finest professional craftsmen—yet simple and easy for a novice to operate.

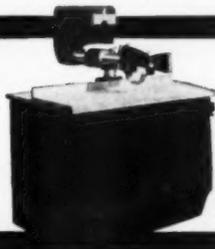
The Shopmaster Universal combines dozens of features to assure top performance and long, maintenance-free life. All moving parts glide on sealed-for-life ball bearings. Matched four-step pulleys make available a range of four speeds. A reversing switch makes left hand drill and router bits unnecessary. Tool changes can be made in seconds.

It's a
**Circle Saw, Sander,
 Drill Press, Router,
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All in one

A complete, one-tool workshop, built to Shopmaster's exacting standards. An unbeatable buy!

Priced Just **\$249⁹⁵**
LESS MOTOR

Complete with saw, drill, disc-and-belt sander attachments, and safety type chuck. Saw attachment is furnished with 8" and 10" blade. Other tool accessories available. Complete unit mounts on special table as shown at the right.



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 1214 Third Street South, Minneapolis, Minn.
 Send information on Shopmaster Universal Power Tool, TODAY!

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the Original
WHIZ SAW



**MODEL
NO. 2
\$130.00**

NEW

**MORE POWERFUL!
RIPS AND CROSS-CUTS
2 INCH PLANKS**

WHIZ-SAW, #2, one of the most versatile cutting tools ever invented, cuts with amazing speed . . . wood, formica, micarta, bone, plastic, fibre, asbestos board, pressed wood, hard rubber, etc., up to 2 inch thicknesses. Ideal for all craftsmen. The original

WHIZ-SAW Model #1 cuts up to 1 inch thickness. (\$55.00) **WHIRL-SAW, Model #3**, 4½ inch circular blade, cuts up to 1¾ inch thickness. (\$49.00)

If not available at your dealer, write to:

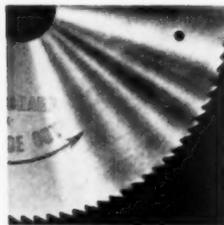
THE Forsberg MFG. CO., BRIDGEPORT, CONN.

Makers of the Famous Whale & Viking Tools

. . . types of saw blades



(1)



(2)

Types of rotary saw blades for power hand saws are: (1) Planer blade, (2) Crosscut blade, (3) Carbide-tipped blade, (4) Nail cutting blade, (5) Combination rip and crosscut blade.



(3)

Black & Decker Photos



(4)



(5)

The New MULLER MIXER

**— top performance with
bottom price and upkeep**



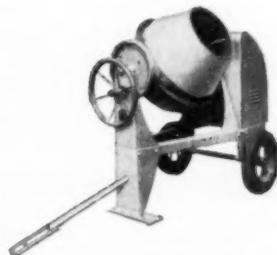
The New Muller
3½' Plaster and
Mortar Mixer.

THE larger drum of the new 3½ cubic foot model has ample capacity for even the lightest materials. Equipped with electric motor or either of the two best air-cooled engines—large enough to stand plenty of overload.

OTHER FEATURES: Muller Paddle Shaft Seal for positive bearing protection, guaranteed for life of mixer; power throwout; hinged engine housing, self-lubricating, self-aligning bearings; ball thrust on paddle shaft; new safety grid.

Prices F.O.B. Factory
1 H.P. Electric Motor . . . \$312.00
2.7 H.P. Briggs & Stratton
Engine 330.00
3.1 H.P. Wisconsin Engine 360.00

Also made in 6', 6' to 8' and 9' Heavy Duty Models. Ask us for name of nearest distributor.



Muller 3½' Tilting Type
Concrete Mixer. Prices from
\$305.00 up, F.O.B. Factory



MULLER MACHINERY COMPANY, Inc.

METUCHEN 4, N. J., Cable Address, MULMIX

AMERICAN BUILDER

DE WALT "3 adjustment action"

HELPS YOU TO BUILD FASTER...
AT LESS COST!



DE WALT
gives you
15 set-ups,
15 different cuts
...in less than
15 minutes!

You not only cut framing, jack rafters and bridging faster and more efficiently with a De Walt—but you can make 15 different cuts *in less than 15 minutes!*

Where most machines require at least 4 adjustments, De Walt's "3 adjustment action" makes it possible to position the saw for any desired cut in seconds!

This flexibility speeds up cutting, reduces operator fatigue, and enables a De Walt to turn out as much work in ten minutes—as other machines will in fifteen.

De Walt offers you unmatched precision, speed and versatility—you rip, cross-cut, plough, rabbet, tenon, bevel, miter and make many other cuts—a total of 15—in far less time than it takes ordinary saws.

Economize by making your own cabinets, special trim or window frames. Cut costs by as much as \$200 a house! It's easy—and you get perfect results every time.

Find out for yourself how De Walt's "3 adjustment action" saves you time...saves you money. See your De Walt dealer or mail coupon below.



POWER SAWS

DE WALT INC., Lancaster, Pa.
Subsidiary of AMERICAN MACHINE & FOUNDRY CO., New York

MAIL THIS COUPON TODAY!

HAVE YOU TAKEN THE DE WALT TRAINING COURSE?

De Walt Inc. invites all its dealers and distributors to Lancaster, Pa., to take a week's course of instruction in the application and uses of DeWalt Radial Power Saws.

It will be well worth your while. You'll learn new techniques of operation that will enable you to give more convincing demonstrations and more help to your customers.

De Walt Inc., Dept. AB-4, Lancaster, Pa.

- Please send me full details on the De Walt Radial Power Saw Line.
 Please send me your informative "Saw Tips".

NAME _____

ADDRESS _____

CITY _____ STATE _____

Size of Extension Cable for Portable Electric Tools						
Based on current equivalent to 150 per cent of full load of tool and a loss in voltage of not over 5 volts.						
This table for 110-volt tools. For 220-volt tools use wire size corresponding to an extension length of one-half the contemplated length.						
Full-load ampere rating of tool	0-2.00	2.10-3.4	3.5-5.00	5.10-7.0	7.10-12	12.1-16.0
Length of cord	Wire size (B & S gage)					
25 ft.	18	18	18	16	14	14
50 ft.	18	18	18	16	14	12
75 ft.	18	18	16	14	12	10
100 ft.	18	16	14	12	10	8
200 ft.	16	14	12	10	8	6
300 ft.	14	12	10	8	6	4
400 ft.	12	10	8	6	4	4
500 ft.	12	10	8	6	4	2
600 ft.	10	8	6	4	2	2
800 ft.	10	8	6	4	2	1
1000 ft.	8	6	4	2	1	0

NOTE—If voltage is already low at the source (outlet), have voltage increased to standard, or use a much larger cable than listed in order to prevent any further loss in voltage.

Courtesy Electrical Contracting and National Safety Council

... erecting safe scaffolding

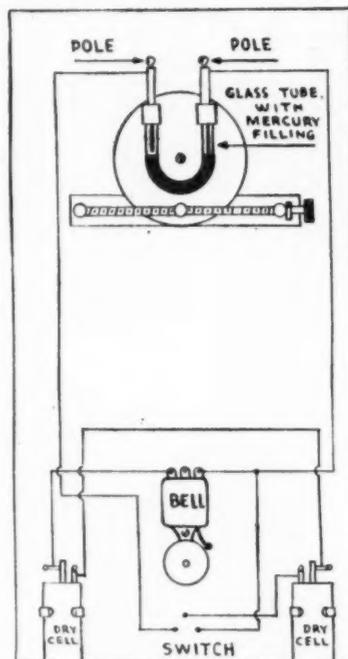
Tubular steel scaffolds erected along one wall should be securely anchored to the wall at suitable intervals, approximately once every 20 feet of height, and every 30 feet of width. Free standing towers, such as hoist towers should be guyed at every 30 feet of height as the erecting of the tower progresses.

Tubular scaffolds are frequently mounted on casters for ease in moving about as the work progresses. It is important that the base section be rigidly braced to hold the bottom sections together when casters are used. Casters should be securely locked before the scaffold is used, and a rolling scaffold should not be moved about while men remain on the scaffold.

Scaffold lumber should be inspected carefully before use. Pieces should be reasonably straight grained, free from large knots, splits, dry rot, and wormholes. Planks should not be less than 2 x 10 inches. Lumber selected for scaffolding should be given careful

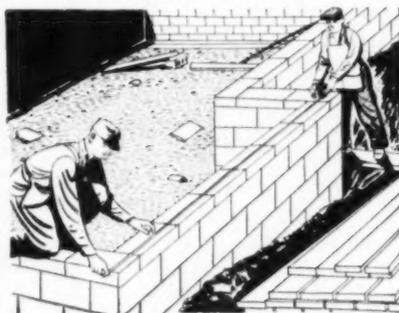
storage, and not used for other purposes.

Scaffolds are not designed for material storage. Material should be delivered as needed, for current requirements only. Hoisting equipment should be located so that there is no possibility of material in movement striking the scaffold.



Electric safety indicator for locomotive cranes to warn the operator when the load is causing the crane to tip at a dangerous angle.

Courtesy National Safety Council



FOR ON-THE-JOB DURABILITY
One Steel Tape Leads Them All!

LUFKIN

"Leader"
CHROME-CLAD
STEEL TAPES

For hard on-the-job use, the Lufkin "Leader" is your best buy. Figures and graduations are bonded to the line—can't wear off. Multiple electro-platings further strengthen the fine tape steel from which the line is made. Jet-black markings stand out sharp and clear against the chrome-white surface. The line is all metal—won't crack, chip, or peel—most rust and corrosion resistant—will outwear painted lines many times. Tough maroon-colored vinyl case. 25, 50, 75 and 100-foot lengths, with or without hook ring.



EASY TO READ
MARKINGS
THAT ARE DURABLE

TABLE 1
Minimum Dimensions of Side Rails for Two-Section Extension Ladders

Douglas Fir or Equivalent*		
Size** of Ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 30...	1 1/4	2 1/2
Over 30, up to and inc. 40	1 1/2	2 3/4
Over 40, up to and inc. 44	1 3/4	3

Eastern or Sitka Spruce or Equivalent*		
Size** of Ladder (feet)	Thickness (inches)	Depth (inches)
Up to and including 28...	1 1/4	2 1/2
Over 28, up to and inc. 32	1 1/2	2 3/4
Over 32, up to and inc. 36	1 3/4	3
Over 36, up to and inc. 44	1 3/4	3 1/2
Over 44, up to and inc. 50	1 3/4	3 3/4
Over 50, up to and inc. 60	1 3/4	3 3/4

*See ASA Code A14.1—1948, "Wood Ladder," for Group 2 woods.
**See ASA Code A14.1—1948 for Group 4 woods.
**See paragraph 37.

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AT YOUR HARDWARE OR TOOL STORE

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TRY 'EM! Look for the new Bostitch try-it-yourself display at your dealer's. Test the three handy tools you'll find there — the T5 Tacker, the H4 and H2B Self-feeding Hammers. Heft them to get their "feel." Drive staples with them to discover their speed, their ease of operation. Prove to yourself that Bostitch "fastens it better and faster and at lower cost with wire!"

Fill in the reply card and mail it today for complete literature

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fastens it better with wire

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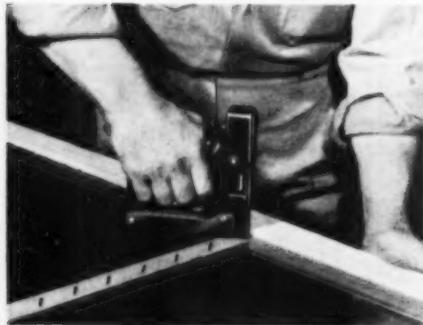
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First Class Permit No. 34, Sec. 34.9 P. L. & R., Westerly, R. I.

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824 Mechanic Street
Westerly, Rhode Island





3 good reasons for a switch to Bostitch

"It's wonderful to have tools that require so little service, do such a good job, save so much time!"

—ROOFING CONTRACTOR



1. BOSTITCH T5 TACKER

Light, compact, easy to operate, the famous T5 Tacker is a favorite with builders. Loads fast. Gets into tight spots. Drives staples all the way into hard woods with powerful action. Three models. Twelve staple sizes. **SMALL NOSE** permits you to place staples within 1/16" of cleats or inside corners.

MANY USES . . . installing batt, blanket and reflective insulation . . . putting up ceiling tiles . . . fastening screening to frames . . . applying cornerite, sheathing paper, flashing paper . . . putting up mesh for tiling.

TYPICAL REPORT . . . "Stapling is 50% faster than hammer and nails for installing ceiling tile. No danger of marring the edges either."
—Lumber Dealer



2. BOSTITCH H2B HAMMER

High-speed, self-feeding stapling hammer, the H2B is ideal for tacking and light nailing. Loads easily from front. Holds 160 sturdy staples. One-hand, one-blow operation speeds job by freeing other hand for better balance or positioning the work. Builders like its long reach, its gloves-on operation, its light weight and balance, its rugged reliability. Two models. Three staple sizes.

MANY USES . . . installing batt, blanket and reflective insulation . . . laying roofing paper . . . applying cornerite and metal lath . . . applying wooden undercourse shingles on outside walls (H2B½) . . . applying felt and waterproof paper to outside walls prior to siding.

TYPICAL USER'S REPORT . . . "For installing insulation, Bostitch is not only faster, it does a better job. And it cuts the cost way down."
—Builder



3. BOSTITCH H4 HAMMER

This heavy-duty hammer drives nail-size staples as fast as you can strike it. Scientifically balanced to give extra power to natural swing. Staple legs spread inside wood for added holding power, will not vibrate loose. Easily loaded with strip of 50 staples. Staples are made of galvanized, heavy-gauge wire.

MANY USES . . . applying asphalt shingles . . . applying metal lath to studding . . . applying corrugated paper to studding for installation of blown-type rock wool . . . stapling of metal discs for built-up tar and gravel roofs . . . laying plywood under-flooring.

TYPICAL USER'S REPORT . . . "We've saved nearly one-third of our labor cost on roofing and siding with the Bostitch H4 Hammer."
—Construction Company

BOSTITCH, 824 Mechanic Street, Westerly, R. I.

Please send me bulletin and prices on:

- Bostitch T5 Tacker
- Bostitch H2B Hammer
- Bostitch H4 Hammer
- Bostitch machines to fasten _____ to _____
(NAME MATERIALS)

Name _____

Firm _____

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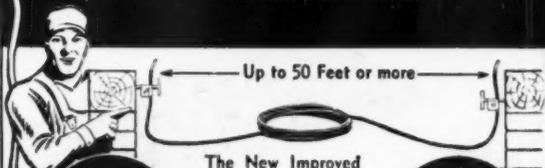
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Send postpaid card for free bulletins on T5 Tacker, H4 and H2B Hammers

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FASTER THAN \$100 ENGINEER INSTRUMENTS



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8.95

The New Improved
Water Level
For Simplest
One Man Operation
Anything you need level
Levelall does it.
Dealer inquiries invited

DeLuxe
12.95

A sturdy instrument that can be left on the job for any workman to use. Cannot be put out of adjustment and even with the most casual handling its principle is so simple anyone can level points quickly and accurately.

For footings, forms, batter boards, sills, lintels, floors, ceilings, roads, driveways, lawns, piping, farm contouring and all gravel construction work normally needing an expensive instrument.

Complete with instructions, high quality vinyl polechloride

t u b i n g , mounting brackets, Level-Flo liquid and metal case.

LEVELALL, 83E Webster St., Rockland, Mass.

Mail me _____ Levelall Instruments @ \$ 8.95

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you guarantee satisfaction or money back upon return of Levelall within ten days.

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Send C.O.D. I will pay postman full purchase price plus delivery charge on arrival.

Full purchase price is enclosed. Send postpaid. (Postage prepaid on orders in U.S.A. only).

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Keeps profits up...labor costs down. Fast! Moves 32 blocks per minute! One man can handle and operate. Basic unit 24 ft.—17½ ft. lift. Extensions available for up to 28 ft. lift. Easily trailed up to 35 m.p.h. Foolproof patent clutch and brake assembly. Write today for FREE literature & prices.

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This instrument is made for the Engineer or Contractor who knows that he can work more efficiently with up to date equipment.

This instrument gives you what you have always wanted in a low priced instrument—high power telescope—close focus—vertical arc with clamp and tangent—sensitive level—compass—plate level—protected circle—vernier reading to one minute—extra large shaft—sturdy construction—U. S. standard Thread—low maintenance costs.

SAVE TIME in making layouts and in giving lines and grades.

SAVE MONEY by reducing labor costs.

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Liberal allowance for your old instrument

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Made also without compass and arc at lower prices.

Transit-Level
No. 38-b \$275



A. L. Hansen Co. Photo

Tacker Saves Time

Worker using one-hand tacker to attach cornerite for reinforcing walls and concrete. Operating as fast as the hand can grip and squeeze. Tacker also saves time by leaving other hand free to hold work.

SIMPLEX

IMPROVED ONLY

78" Aluminum LEVEL \$14⁸⁵

For setting door jambs and window frames! No other like it. 4 Plumbs, 2 LEVELS. Use either end or edge up. Weighs only 4¼ lbs. I-Beam type—non-warp. Direct from factory. Patented.

NO FACTORY REPAIRS NEEDED

Spirit tube-holder (50c) replaced in a minute with an ordinary screw-driver. New design has double-grip—locks positively in position.

72" Level—\$14.35. Levels express paid—Cash with order.

SIMPLEX LEVEL CO., INC.

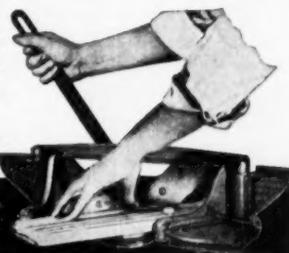
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COST CUTTER

LION UNIVERSAL TRIMMER

Accurate, razor-like cut any way of grain. Quick adjustments to 45 degrees or 90 degrees. Miter, bevels, squares, chamfers—hundreds of uses! A time saver on every job.

WRITE FOR FULL INFORMATION



POOTATUCK CORP.

50 SAMMIS PLACE
STRATFORD, CONN.



*Harbor plywoods are used
wherever consistently high
quality and durability
are important...*

HARBOR PRODUCTS are known throughout the industry as the royalty of Douglas fir plywoods. Dealers and users are agreed that Harbor products deserve their world-wide reputation for durability and extra quality. They are carefully manufactured to exceed accepted standards of construction and performance. They have proved their reputation by the toughest of tests in every type and size of structure—water tanks, sea-going clippers, railroad cars, billboards, concrete forms, and for hundreds of interior uses. For dealers Harbor products mean steady, repeat business. To users, they offer assurance of top performance always.

SUPER-Harbord

**SUPER QUALITY WEATHERPROOF
DOUGLAS FIR PLYWOOD WITH
FOUR EXCLUSIVE FEATURES**

- 1 All Heartwood Veneer.** The exclusive use of heartwood, the prime wood of a tree, in SUPER-HARBORD, assures a stronger, better panel.
- 2 Solid Inner Plys.** Selected heartwood stock is used for inner plys as well as face veneers in SUPER-HARBORD. Carefully patched, it eliminates troublesome core gaps.
- 3 Edge-Jointed Inner Plys.** Solid inner plys are machine edge-trimmed and carefully butted. Every saw cut reveals the solid core construction.
- 4 Re-Humidified.** During manufacture, wood moisture is inevitably reduced. After SUPER-HARBORD panels are bonded, they are re-humidified to minimize dimensional change or warping.



SUPER-Harbord PLYCRETE

A finished SUPER-Harbord form panel for multiple re-use on concrete work demanding a relatively high architectural finish.

Harbord PLYCRETE

A panel especially made for concrete form work on average jobs where limited re-use is required.

Harbord

Interior-type Douglas fir plywood of Commercial Standard quality.

SUPER-Harbord

GIANT PANELS

SUPER-Harbord standard panels joined with a 1 to 12 ratio scarf joint. Produced in any length with a maximum width of 9', or in any width with a maximum length of 9'.

Harborite

One or both sides plastic faced over SUPER-Harbord core. Makes excellent paint base for exterior finish.

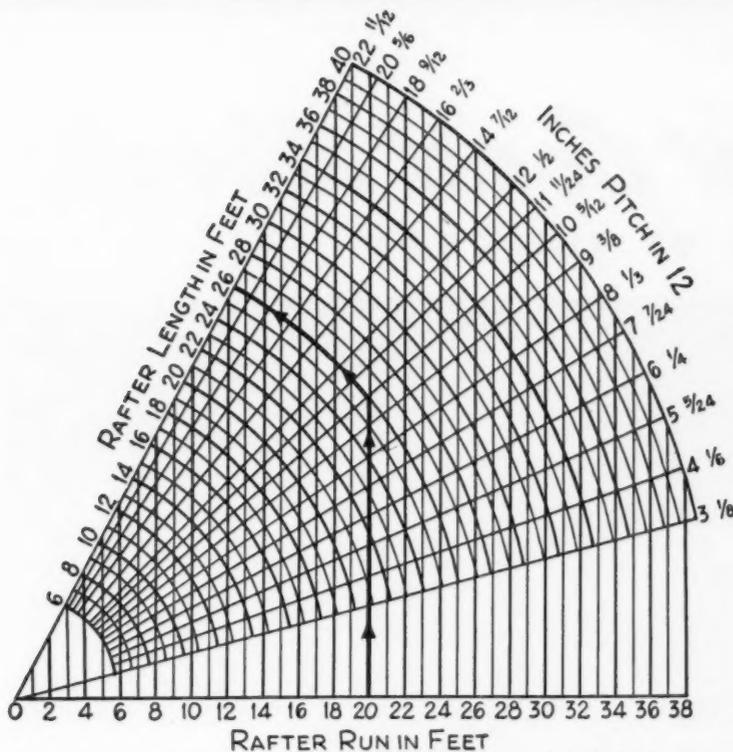
Harbord

GIANT PANELS

Giant-size Harborite panels with overlay faces manufactured by joining standard panels with a scarf joint.

SALES OFFICES AND WAREHOUSES

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 CHICAGO, ILLINOIS, Harbor Plywood Corporation, 1444 W. Cermak Road
 CINCINNATI, OHIO, Harbor Plywood Corporation of Indiana, 511 Baymiller Street
 INDIANAPOLIS, INDIANA, Harbor Plywood Corporation of Indiana, 1001 E. New York St.
 JACKSONVILLE, FLORIDA, Harbor Plywood Corporation, 2355 Dennis Street
 LOS ANGELES, CALIF., Harbor Plywood Corp. of Southern California, 235 S. Alameda St.
 OAKLAND, CALIFORNIA, Harbor Plywood Corporation of California, 901 King Street
 PHILADELPHIA, PENNSYLVANIA, Harbor Plywood Corporation, 3701 North Broad Street
 SAN FRANCISCO, CALIF., Harbor Plywood Corporation of California, 3095 Third Street
 TAMPA, FLORIDA, Harbor Plywood Corporation, 802 North Rome Avenue



Revised from FHA Minimum Property Requirements

TO FIND the rafter length when its run and pitch are known, follow the vertical line from the run to its intersection with the radial line of the pitch. From the intersection follow the curved line to the length. The diagram also may be used to determine the run when the length and pitch are known, or to determine the pitch when the length and run are known. Example: For a run of 20 feet and a pitch of 10 in 12, the length of the rafter is read directly from the diagram as 26 feet

Ordinary construction lumber is graded on the basis of quality in two main classes—select lumber and common lumber. Select lumber has but very few minor objectionable characteristics, is smoothly finished and can be used as a whole for finishing purposes or where large, clear pieces are required. The selects are divided into two main groups: A and B grades, suitable for natural finishing, and C and D grades, which have blemishes somewhat greater than those in the first class, but blemishes which can be covered with paint.

Common lumber may contain numerous characteristics which do not permit its use for finishing purposes but which still permit its use for general utility and construction purposes. The two principle classifications here are boards and dimension. Boards are graded as No. 1, No. 2, No. 3, No. 4 or No. 5. These grades are not equivalent in all species. Dimension is graded as No. 1, No. 2 or No. 3. The characteristics of these various grades are described briefly in the table on yard lumber.

Size Standard

Lumber sizes are based on its rough, green dimensions. For example, although described as 4 inch by 4 inch, which is the "nominal" size, a piece which has been dried and

dressed on four sides is actually 3 $\frac{5}{8}$ inch by 3 $\frac{5}{8}$ inch. The first figure quoted in lumber dimensions indicates nominal thickness; the second, width; and the third, if there is one, is the length. Lengths on common lumber normally are in multiples of two feet.

Common boards, or boards, are a general purpose item available at all lumber yards in one or more of the kinds of wood most frequently used in building. The standard nominal widths are 4, 6, 8, 10, 12 inches or wider. Although the grades shown are from No. 1 through No. 5, the very lowest grades of any species are almost never available in retail yards. Their use is mainly for special industrial purposes. Boards are produced with square edge, dressed and matched (tongue-and-groove), or with a shiplap joint. The largest uses for common boards are subfloors, sheathing, roof boards, barn boards, rough siding and concrete forms.

Dimension Lumber

Dimension is primarily framing lumber, used for joists, rafters and studding. Strength, stiffness, and uniformity of size are essential requirements. Dimension is nominally two inches in thickness dressed to 1 $\frac{5}{8}$ inches. Widths are usually nom-

(Continued on page 134)

LUMBER, FRAMING, MILLWORK, PLYWOOD, AND HARDBOARDS, FRAMING & STAIRS

Types of Lumber

Standards
Grades
Sizes

Good Framing Practices

Types of House Frames
Wood Preservatives
Rafters and Joists

Stairs and Stair Framing

Millwork

Built-ins, Cupboards
Mouldings, Columns
Shelves, Valances

Plywoods for:

Sheathing, Subflooring,
Roof Decking
Exterior Use
Interior Use
Hardwood Plywood
Interiors
Concrete Forms
Farm Uses

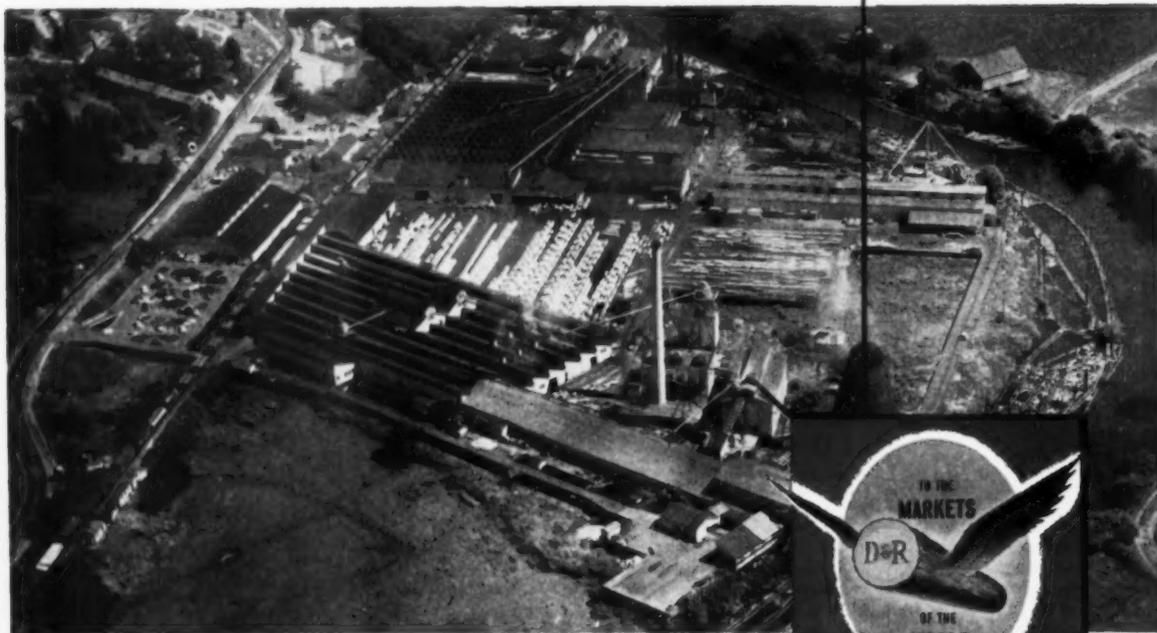
Hardboards

Types and Uses
Application Techniques
Concrete Forms

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.

All West Coast Woods

THE CREAM OF THE CROP



Coos Bay Lumber Company, Coquille, Oregon

DOUGLAS FIR PLYWOOD and DOORS

100% HOT PRESSED, interior and exterior types

For uses requiring long durability, for versatility in all types of construction, there's no better product than Douglas Fir Plywood manufactured by the Coos Bay Lumber Company. Here's a quality plywood—a superbly processed product cut from the finest virgin timber available on the Pacific coast. With years of Plywood manufacturing experience behind it, the Coos Bay Lumber Company is prepared to meet your every need for plywood and doors.

SOON! COOS BAY HARDBOARDS

The ultra-modern Coos Bay Hardboard Plant at Coos Bay, Oregon, will soon be operating, producing hardboards of the finest quality.

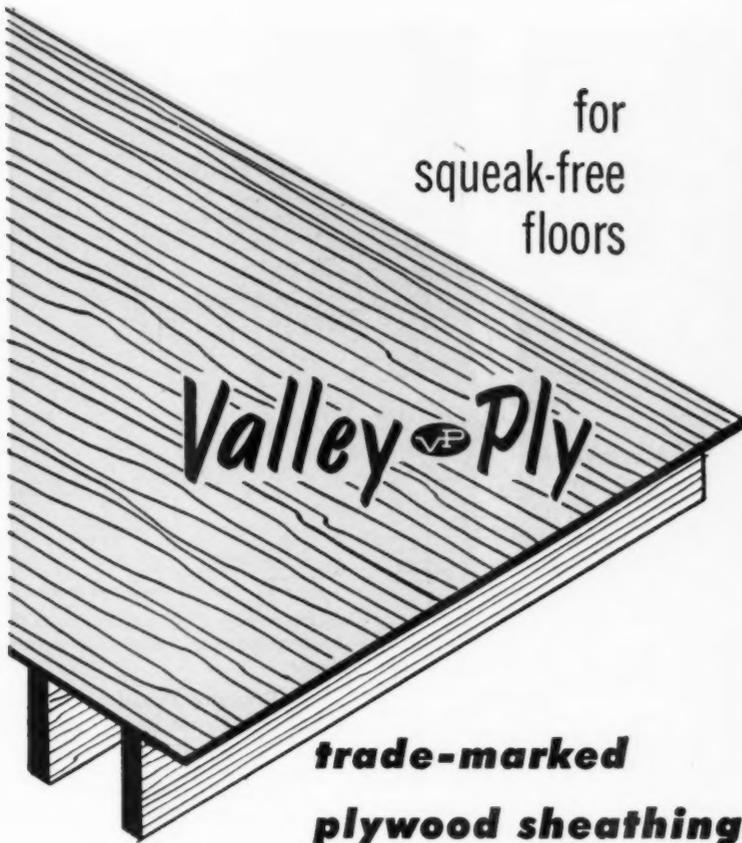
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Hardboard Division . Coos Bay, Ore.

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squeak-free
floors



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**trade-marked
plywood sheathing**

No matter how sound the construction of your houses, a floor that squeaks can change a buyer's "yes" to "no sale". For any finish floor you plan, Valley Ply panels assure you of a solid, squeak-free base. You'll build stronger, warmer, drier with Valley Ply...and at a better applied price than boards. For extra savings, use Valley Ply first for concrete forms, then for subfloor. Choose from Valley Ply sheathing...plugged solid...or touch-sanded underlay. Call your supplier for more information.

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IS GREATER...PROFIT
MARGINS HIGHER...
WHEN YOU BUILD
PRACTICAL INTERIORS
WITH

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of the same type
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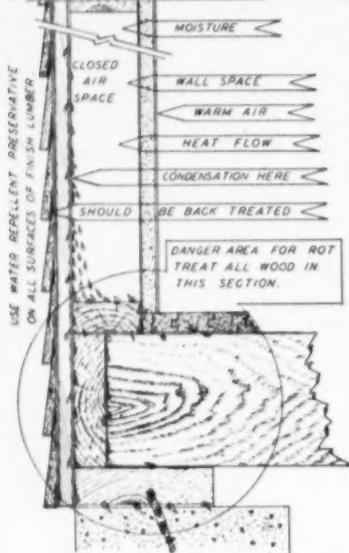
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Box 789, Eugene, Oregon

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SANDER PLYWOOD
INTERIOR PANELS
ALL GRADES
ALL THICKNESSES
ALL SIZES

Available Oregon for
Regional Representatives

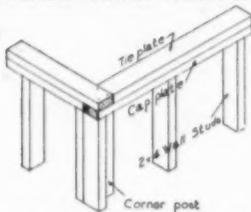
WHERE TO USE PRESERVATIVE TO COMBAT CONDENSATION

CONDENSATION WITHIN WALL SPACE
 CAUSES ROT, SWELLING AND PAINT PEELING.
 CUPRINOL HELPS PROTECT THIS AREA.
 BACK PAINT WITH CUPRINOL TO REDUCE DAMAGE.

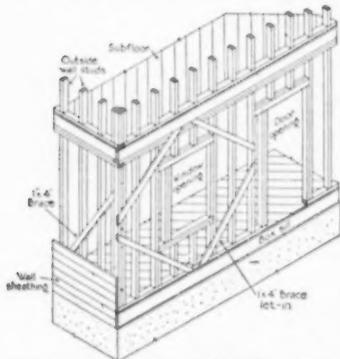


Courtesy, Cuprinol Division, Darworth, Inc.

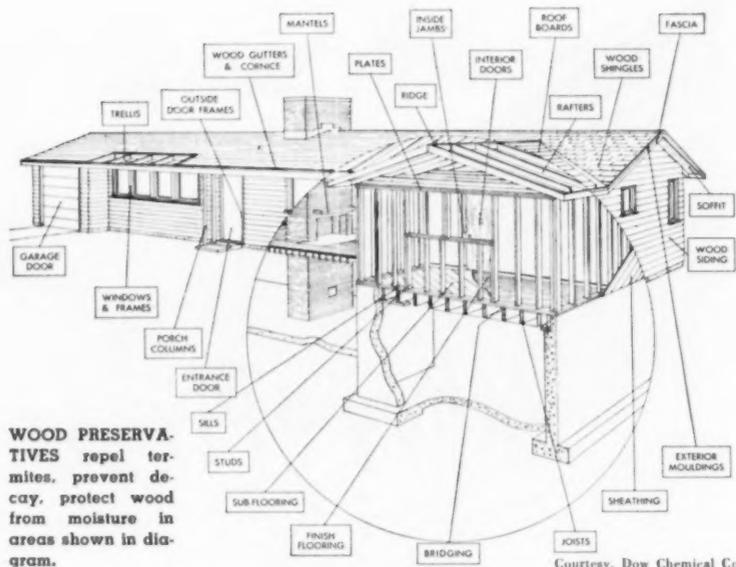
Liquid wood preservatives, applied before painting or varnishing, increase the useful life of floors and beams, joists, and siding, particularly in climates where moisture or termites make special problems, and in modern homes where heating, air conditioning, and laundry devices may increase moisture content of air.



CAP AND TIE PLATES should be used for all exterior walls and the corners lapped and nailed with three 16d nails



CUT-IN OR LET-IN BRACING around openings or at corners should be as close to a 45-degree angle as possible. Adequate corner bracing or diagonal sheathing are prerequisites of good construction and are stressed by meticulous builders



Courtesy, Dow Chemical Co.

WOOD PRESERVATIVES repel termites, prevent decay, protect wood from moisture in areas shown in diagram.

(Continued from page 131)

inal 4, 6, 8, 10 or 12 inches and lengths normally run from 6 to 20 feet in multiples of two feet. Dimension thicker than two inches and longer than 20 feet is made but it is used in comparatively small quantities. Basically dimension lumber is graded to fill the requirements of framing for buildings.

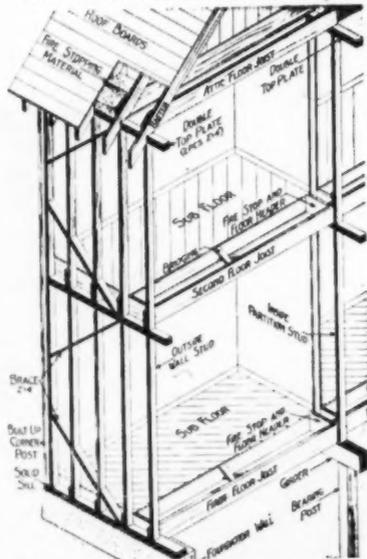
House Framing Types

Three types of house framing are most prevalent in modern usage: (1) Modern Braced Frame (2) Balloon Frame, and (3) Platform Frame. All three are modern and accepted framing methods. The platform frame is the most popular and believed to be the fastest and safest form. The plat-

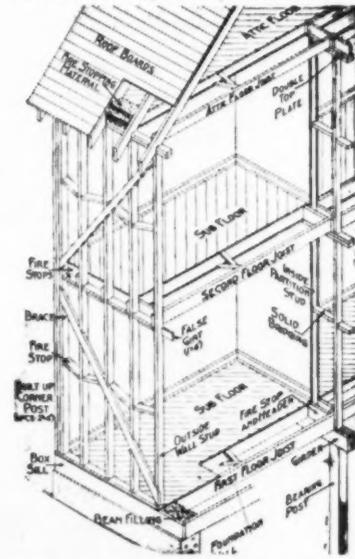
form frame is often referred to as the western framing method, or western frame.

Good Framing Practices

The use of good framing practices cannot be over emphasized. Enough supporting members of proper size must be used, not only to support ordinary loads but to impart sufficient strength to the entire structure. Good framing practices are necessary to give floors and entire structure good stiffness; a most important factor to a well built house. On these pages are shown detail drawings for joists, bridging, subflooring, studs, openings, framing around chimneys, sheathing, roof framing, trussed rafters, fire-stops and partitions.



THE MODERN BRACED FRAME is in every way adaptable to modern needs, but must not be slighted in assembly



BALLOON-TYPE OF FRAME for two-story houses is another modern and accepted type of framing structures

REPORT ON



We are happy—and regretful. Happy because the acceptance and demand for this decorative fir plywood has been so spontaneous. Regretful because we can't seem to catch up with orders. It may seem odd that in a market of plywood plenty, there is, by comparison, so little *Sea Swirl* available. Yet this is understandable when you realize that only the most select panels qualify for this three dimensional product that captures the romance of soft ocean beaches and of tideprints in the sand. We suggest that you write for a color booklet illustrating the many uses of this wonder wood. While you are studying it, and planning on the use of *Sea Swirl* for modernization and new construction, we will be increasing production facilities on this popular plywood.

ASSOCIATED PLYWOOD MILLS, INC.

General Offices: Eugene, Oregon
Plywood plants at Eugene and Willamina, Oregon
Lumber mill at Roseburg, Oregon

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Mo.; 4814 Bengal St.,
Dallas, Texas; 4003 Coyle
St., Houston, Texas;
1026 Jay St., Charlotte,
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Toland St., San Francisco,
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ARCHITECTS!**

Use America's number one stairway.

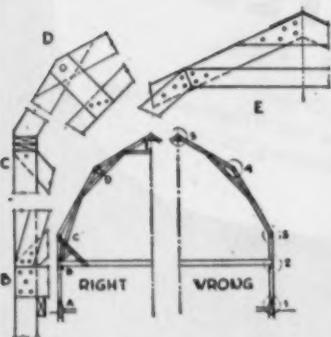
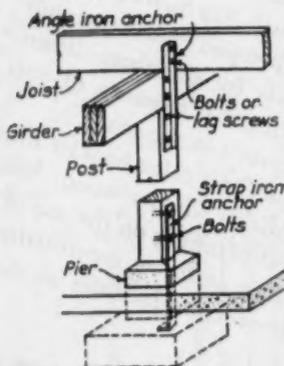
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**ENGINEERED FOR—
QUICK INSTALLATION
FINGERTIP OPERATION
FREE, COMFORTABLE WALKING**

Write for complete information and nearest distributor
FOLDAWAY STAIRWAY CO., INC.
813 SEABOARD STREET — PORTSMOUTH, VIRGINIA

good joints in barn framing

TIEING ALL FRAMING MEMBERS TOGETHER securely is essential in farm structures. Where a load-bearing post supports a girder on which either joists or rafters rest, an angle iron or similar device should be used to tie the post, girder and members



SOME SUGGESTIONS for improving stud and joist framing are shown at the left. To eliminate toenailing at the common points of failure at sill, plate and ridge. It is always wise to lap members past one another and put nails, bolts or fastenings in shear. The ridge joint may be further reinforced by a light strap iron over the rafter junction, shown in Section E above



ARKANSAS SOFT PINE Satin-like Interior Trim



1. Arkansas Soft Pine contains no pitch to bleed through and discolor paint, enamel or stain finish.
2. It is seasoned to correct moisture content (6 to 8 per cent) in automatically controlled dry kilns.
3. This process shrinks the wood *before* it is machined. Thus "pull" between summer and winter ring growth, which is the cause of raised grain, is completed while the wood is in the rough. Seasoned material is then machined to patterns of stabilized size and satin-like surface.

"This soft texture absorbs paint evenly and holds it; there's no bleeding through or discoloration."



Checking for correct moisture content.

4. Priming coats are evenly absorbed, becoming integral with the wood's fiber. Final coats thus are applied to uniform surface, immune to bleeding and raised grain, to provide finished woodwork of lasting beauty. These are dependable qualities in Arkansas Soft Pine which answer your question, "How will this trim look five years from now, or 25?"

Available at your local lumber dealers in A.I.A. approved contours and standard 8000 Series patterns. Complete information, including grades to specify, stress tables, trim patterns, painting and finishing instructions are contained in this free Handbook for Builders. Write for your copy.

FRAMING LUMBER, TOO—

... in dimension, sheathing, siding, jambs and outside trim. The soft texture and paint-holding qualities of Arkansas Soft Pine insure your workmanship and reputation as a builder of better homes. Look for the trade-mark at your lumber dealers—stamped on all genuine Arkansas Soft Pine.

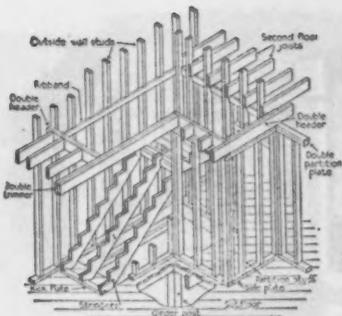
ARKANSAS
Soft Pine
BUREAU

452 Boyle Building

LITTLE ROCK, ARKANSAS



"How will this trim look in 25 years?"
As you see it here.



STAIRWAYS SHOULD BE FRAMED with not less than three horses and of stock wide enough to leave 3½ inches of material behind each cut. Landing must be carefully supported and the stair braced against thrust. Accurately cut horses or stringers are important

Stairway Framing

Stair layout and building is a phase of construction confined largely to millwork manufacturing firms who employ professionals to help builders with these problems.

Never underestimate the value of good framing around stair openings. Doubled and sometimes tripled joists with well-selected, properly fitted and adequately fastened headers are of utmost importance to achieve strength and rigidity. Firmly secure stair horses against header of stair opening. In no case hang them from it.

It is recommended that risers be 6¾ to 7 inches and treads be 10½ to 10¾ inches. Slight variations in these dimensions may be made, but in all cases have tread and riser measurements total about 17½ inches. Between 30 and 36 degrees is the proper, safe, over-all stair flight angle. The
(Continued on page 140)



Natl. Fir Plywood Assn.

Built-ins like this carefully designed shelf-door wardrobe fit many situations. Plywood wardrobe may be installed as single unit, used as storage wall partition, or built back-to-back for two rooms.

How to Offer Low Cost Housing!



See Sweet's

FREE! New Catalog!

Illustrates and describes complete line of seven Bessler Disappearing Stairway Models to meet all your needs. This new catalog should be in your files for ready reference—write for your copy now!

Build More Saleable Area into Homes with BESSLER Disappearing Stairways

1. The ORIGINAL disappearing stairway—made for over 40 years.
2. A real stairway—not a ladder.
3. Seven well-engineered models—for every need.
4. Safety-designed in every detail for your protection.
5. Suitable for the finest homes—old and new.
6. Operates from above and below.
7. Full width treads—SAFE for everyone.
8. ALL steps are of equal height.
9. Treads and stringers are made of Sitka Spruce.
10. Full door width provides ample access for large objects.
11. Full length SAFE hand rail.
12. Accurate architectural design assures easy and SAFE ascending and descending.
13. All metal parts are made of strong, SAFE pressed steel.
14. Repairs always available on quick notice for all models—no "orphans."
15. Doors made of White Pine and Fir in two-panel type; flush doors in hardwood only.
16. Tailor-made for all heights—no short or long steps.
17. Proved in performance—hundreds of thousands in constant daily use.
18. IMMEDIATE DELIVERY!
19. Meets all building codes.

The Bessler Disappearing Stairway Co.
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BESSLER—best for over 40 years!

FED UP
with Complaints
about Drawers
**THAT STICK
AND BIND?**

**NOW! Provide
Fingertip Drawer Operation—**

a feature
housewives want
in built-ins
with—



Roll-ez

**ROLLER BEARINGS
FOR WOODEN DRAWERS**



Installed in built-ins, Roll-ez do away with the wooden drawer nuisance of sticking and binding; add immeasurable value to your homes at negligible cost. Compact, rugged, virtually indestructible, these durable plastic rollers eliminate wood-to-wood contact and maintain perfect drawer alignment, assure smoothly operating drawers throughout a lifetime of use. Installation is quick and easy. AND... because they allow a simplified drawer construction and faster fitting of drawers, save important time and labor. Six styles, they fit readily into your plans.

AND TWO MORE STYLES

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Our national advertising annually produces thousands of customer inquiries which are turned over to our dealers for follow-up. Here is an active market for cedar closet lining. Brown's SUPERCEDAR is a fast-moving, profitable item and is produced by the largest and oldest experts in the business. Sold only through leading jobbers and millwork distributors.



Write for Builders Folder and Consumer Booklet

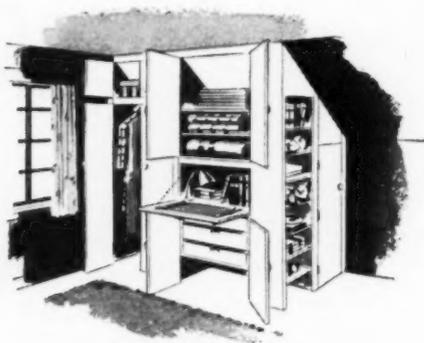
PRODUCT OF

GEO. C. BROWN & CO., Inc.
GREENSBORO, N. C. Established 1896

LARGEST MANUFACTURERS OF
AROMATIC RED CEDAR IN THE WORLD



1. Flexible Storage Wall. Simplicity of construction, adaptability mark this striking fir plywood built-in. Provides compact storage in small space. Box-like drawer, desk and cabinet units are interchangeable. Sections can be altered, added or subtracted to fit wall space. Cost of fir plywood to build unit shown..... **\$105***



2. Under-Eave Storage makes good use of usually wasted space in expansion attics, second floor of story and a half home. Unit can be made to fit any ceiling slope. Fir plywood to build it costs..... **\$95***

8 WAYS to put extra with low-cost

PLANS AVAILABLE

HERE are eight new ideas you can use to build your sales-story right into the house. For even the most modest home can be lifted above the ordinary . . . given *extra* sales-appeal with low-cost fir plywood built-ins.

Fir plywood built-ins far more than pay for themselves. They sell houses faster—and at better prices. See how little you pay* for fir plywood for each of these built-ins.

And when you plan with plywood, you make the built-in fit the house—*exactly!* No bothersome juggling of “stock” units. Fir plywood is easy to cut, fit, fasten. Paint it with popular modern accent colors to compliment your interiors . . . or use light stains to feature the real wood grain.

Get detailed plans for each of these eight sales-clinching built-ins from your local lumber dealer—or write Douglas Fir Plywood Association, Tacoma 2, Washington. Please order plans by number.

5. Child's Storage Wall helps sell parents shopping for new home. Unit has ample room for toys, clothes, bedding. Sales feature: tough fir plywood doors and drawers can't be hurt by playing children. Fir plywood to build it costs..... **\$80***



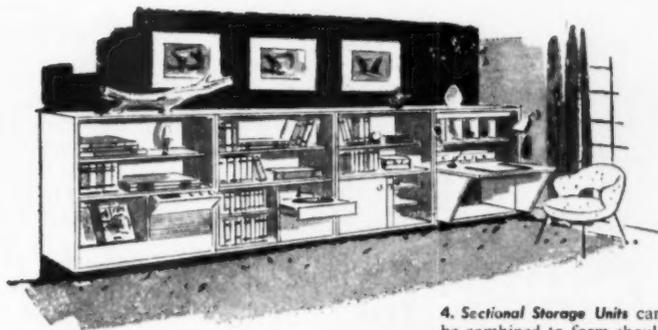
Douglas fir Plywood



This trademark identifies quality-tested PlyPanel®—the versatile “one-side” grade of Interior fir plywood. Other grades include “two-side” panels for uses where both sides of panel will be seen. For outdoor use, specify Exterior-type fir plywood. EXT-DFPA® on panel edge means 100% waterproof glue.

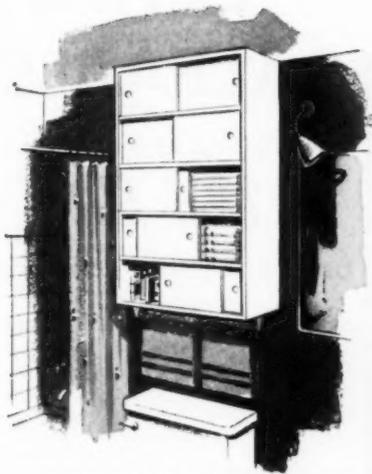


3. Shelf-Door Wardrobe combines features of roomy closet, dresser and chest of drawers. Use it to help sell your house faster. Can be used in any room. Build it with fir plywood for only.....\$55*

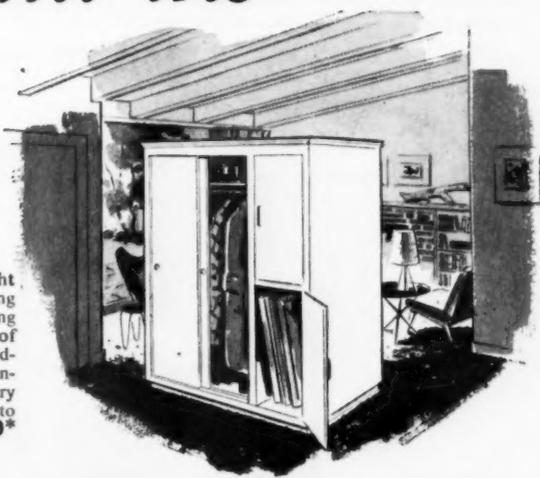


4. Sectional Storage Units can be combined to form shoulder-high storage wall for living room or den. Sections can be pre-built, installed on job. Fir plywood you'll need to build it costs.....\$90*

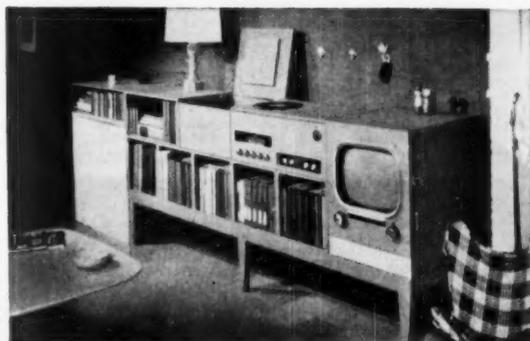
sales-appeal in your homes fir plywood built-ins



7. Odds and Ends Cabinet will appeal to your women customers. Use it to reclaim waste space above water closet or hang in kitchen or utility room for extra storage space. Get fir plywood to build it for only.....\$8*



6. Island Entry Wall at right defines entry and living areas without confining either. Adds feeling of spaciousness. Saves building costs by replacing conventional wall and entry closet. Fir plywood to build it costs... \$100*



8. Demountable Music Wall is ideal for custom homes built for music lovers. Simple, interchangeable fir plywood boxes are stacked on low plywood table. Holds radio, record player, albums, TV. Fir plywood you'll need to build it costs.....\$60*

*Based on latest available Chicago retail sales for fir plywood compiled by leading trade magazine, prices may vary throughout nation depending upon location and source of supply



"The Wood Preservative Plus"

- Minimizes swelling and Shrinking of doors and floors
- Reduces Grain Raising and Separation Checks in Plywood
- Dries quickly and takes Paint or varnish perfectly
- Non-toxic to handle for On-the-job Application
- Stops Rot and Termites
- Carried by Lumber Dealers

CUPRINOL Division, Darworth Inc.
56 Maple Street • Simsbury, Conn.

(Continued from page 137)

recommended height for permanent handrails is 36 inches above the treads. Minimum headroom distance between nose of treads and soffit over stairway, in a line parallel with the horses, should be 6 feet, 8 inches for main stairs and 6 feet, 4 inches for basement and service stairs.

Millwork

Millwork consists of building items which are fabricated at the factory by the use of some type of machinery. For specific information on millwork relative to doors, windows and stairs refer to directory section titled *windows, doors, frames, and stairs*.

Millwork may be either assembled at the factory or delivered to the builder knock-down. Included in the many items referred to as millwork are balustrades, scroll work, bent work, casework, cupboards, mantels, mantel shelves, columns, colonnades and a wide variety of mouldings. While some standardization of size exists, designs may be unique with each manufacturer.

Mouldings, however, can be purchased by reference to a standard numbering system, generally adopted by moulding manufacturers, which indicates the size and design of the specific type of moulding. In addition



Natl. Fir Plywood Assn.

Modern millwork includes a wide variety of built-in cabinets and cupboards like these fir plywood units installed in modern kitchen. Custom-designed vertical molding strips add note of modern charm

to this accepted standard system of identification, certain stock mouldings have become standard within certain sections of the country. For example one might purchase a NY 116 in New York City or a DC 98 moulding in Washington, D. C.

Shown on these pages are some accepted standard stock mouldings from the "8000" series standard.

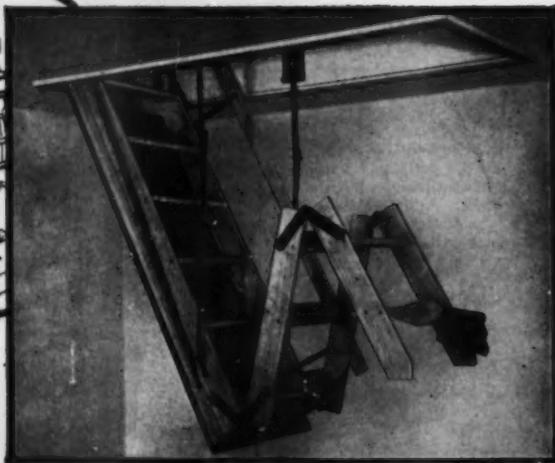
(Continued on page 148)

MAKE YOUR HOMES "EXTRA SALEABLE"



DATA AND SPECIFICATIONS
FHA Acceptance

All parts manufactured from highest quality materials. Clear wood panels. Operates easily and safely with carefully balanced straight coil springs. Finger-tip touch control will operate this sturdily constructed stairway. Shipped complete in one package.



Model	Ceiling Height	Rough Opening	Shipping Weight	Overhead Clearance	Stoop Dimension
C. 89	7'0" - 8'9"	25 1/2" x 60 1/2"	70 lbs.	22 inch clearance required above floor	4' wide 12 1/2' long 8 1/2' rise
C. 99	8'9" - 9'9"	25 1/2" x 54"	68 lbs.		4' wide 17 1/2' long 9 1/2' rise

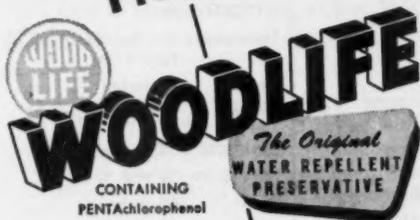
FEATURE AND INSTALL
Wel-Bilt
DISAPPEARING STAIRWAYS
make 6-room out of 4-room house

You build extra sales appeal into your homes when you install and feature Wel-Bilt Disappearing Stairways. The space saving Wel-Bilt Stairway can be installed in a few minutes by a builder. Ruggedly constructed for years of trouble-free service for your customers. Ideal for new construction or remodeling jobs. Comes completely assembled with jamb, shipped in one package. Investigate today, the added profit potential with Wel-Bilt.

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I am a builder and
I recommend . . .



because . . .

The continued prosperity of my business depends upon the satisfaction of my customers, and I can keep that satisfaction only by building well and by using first class materials. Because WOODLIFE protects wood against swelling, shrinking, warping, grain raising, and guards it against decay and termites, it safeguards my customer's investment and strengthens my reputation as a quality builder. Many costly call-backs often needed to repair sticking doors and windows, squeaking floors, etc., are eliminated by WOODLIFE.

WOODLIFE, water repellent preservative, has been nationally advertised since 1935, and because it has user acceptance, more and more builders and architects find that WOODLIFE protected homes sell faster. It gives a "plus" value that marks a good builder—and at little extra cost.

Many lumber dealers supply WOODLIFE treated lumber and millwork items, and stock WOODLIFE in quart, gallon, 5 gallon and 55 gallon containers for on-the-job treating.



Write for literature and name of nearest distributor.

Protection Products Mfg. Co.
Research Laboratory and Plant KALAMAZOO, MICH.

Silent Salesman for New Homes



Bilco[®]
CELLADOUR

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 metal Celladour.



GIVE YOUR CUSTOMERS THESE BILCO BENEFITS

- WEATHER-TIGHT
- FIRE-PROOF
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SEE US AT THE NAHB CONVENTION — CHICAGO — BOOTH 603-A

THE BILCO CO., 108 HALLOCK AVE., NEW HAVEN, CONN.

Gentlemen: Please send me more facts about this selling feature for new homes.

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ADDRESS _____

CITY _____ STATE _____

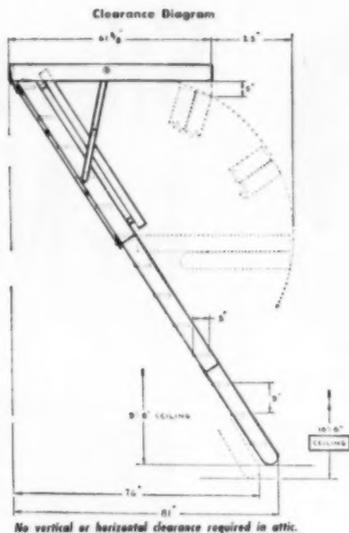


Natl. Fir Plywood Assn.

Fancy scalloped frame around built-in shelving with ornate valance contrasts effectively with simplicity of plywood wall panels joined with V-joints and vertical scoring.

Disappearing Stairs

A number of manufacturers fabricate disappearing stair units which are designed for use with attics without taking up the space normally required for a finished stairwell. No vertical or horizontal clearances are required in the attic or loft; all that is needed is to cut a rough opening and install the unit. Some models



Courtesy, E.Z. Way Sales, Inc.

One model of modern folding stairway which provides safe access to attic without taking up valuable hall space.

move by counterweights, some are of one-piece construction on the stringer, others have a semi-extensible feature to save more space. Safety treads, an insulated ceiling-door panel, and rigid construction are features of several models.

DOUGLAS FIR PLYWOOD

Stock Thicknesses, Widths and Lengths

INTERIOR A-A, INTERIOR A-B, PLYPANEL and PLYBASE Sizes:

Thicknesses: $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch

Widths: 30, 42, 48 inches

Lengths: 60, 72, 84, 96, 108, 120 and 144 inches

EXTERIOR A-A, EXTERIOR A-B, PLYSHIELD and UTILITY Sizes:

Thicknesses: $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 and 1 $\frac{1}{8}$ inches

Widths: 30, 36, 42, and 48 inches

Lengths: 60, 72, 84, 96, 108, 120 and 144 inches

SHEATHING and PLYSCORD Sizes:

Thicknesses: $\frac{3}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch

Width: 48 inches

Lengths: 96, 108, 120 and 144 inches

PLYFORM Sizes:

Thicknesses: $\frac{1}{2}$, $\frac{3}{16}$, $\frac{5}{8}$, $\frac{3}{4}$ & $\frac{1}{4}$ inch form liner

Width: 48 inches

Length: 96 inches

CONCRETE FORM Sizes:

Thicknesses: $\frac{5}{8}$ and $\frac{3}{4}$ inch

Width: 48 inches

Length: 96 inches

What's Cooking in the Kitchen?

WE HARDBOARD TWINS STIR THINGS UP

Turn us loose in a kitchen . . . that's the recipe for pleased customers.

We back cabinets, partition drawers, fill in corners and serve in dozens of helpful ways that any good builder knows and understands.

STAN is the Weldwood® Standard Hardboard twin . . . and TEMP, the Weldwood Tempered Hardboard member of the team, treated with oil and plastic so it's permanently weather-resistant.

Both Weldwood Hardboards can be cut, sawed, drilled, bored, planed or worked by any standard or ordinary hand tool. Both, being lighter than average in color, can be painted, even with pastel pigments. Both serve builders in any room in the house. Order today from your Weldwood supplier.

WELDWOOD® Hardboard

Manufactured by Abitibi Power and Paper Company

Distributed Exclusively By

UNITED STATES PLYWOOD CORPORATION

World's Largest Plywood Organization

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Branches in Principal Cities • Distributing Units in Chief Trading Areas



To meet all your requirements: both Standard and Tempered Grades of Weldwood Hardboard come in three popular thicknesses: 1/8", 3/16" and 1/4". In sizes: 4'x6', 4'x8', 4'x10', 4'x12' and 4'x16'. Panels up to 4'x12' are wrapped six to a package. Weldwood Tempered Tile Board is available only in 1/8" thickness and sizes 4'x4', 4'x8', 4'x12'.

Call your Weldwood salesman for Weldwood Hardboard or Tile Board today.

WHEREVER A TOP IS NEEDED -- THERE'S A USE FOR GENERAL ELECTRIC TEXTOLITE*

GENERAL Electric Textolite plastics surfacing comes in dozens of exclusive patterns and colors. It is used wherever a durable surface is needed — tables, counters, work surfaces of all kinds — in homes, stores, restaurants.

A variety of gay patterns and solid colors makes General Electric Textolite as pretty as it is practical. Textolite's beauty lasts and lasts. It's scratch and heat resistant, withstands boiling water, scalding greases, even resists burning cigarettes. General Electric Textolite is stain resistant, sheds fruit juices, alcohol, ordinary household chemicals and acids without a trace. It's easy to keep Textolite tops clean. Just a swish with a damp cloth restores the original sparkle and luster.



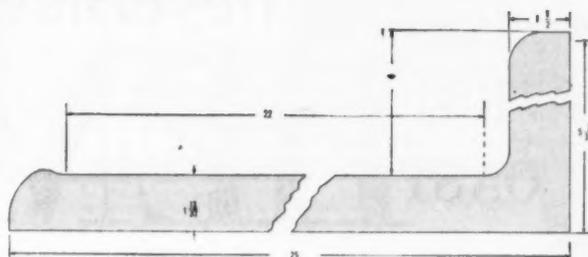
MONOTOP... NEW ONE PIECE MOLDED PLASTIC TOP

The G-E Monotop was developed by General Electric in answer to the demand for a simple, one-piece, molded, seamless plastic top that would fit over cabinets without metal trim or separate back splash.

The newest thing in plastic work surfaces, the G-E Monotop is molded all in one piece, with a 4" high back splash and a raised, rounded, no-drip front edge. There are no joints or cracks to catch dirt.

Installation is simple and requires little carpentry. The Monotop is self-supporting, being 3/16" thick, and can be installed over an old top or directly on base cabinets. Ask for illustrated installation booklet.

Five decorator colors in the popular cross current pattern are available.



Simple cross-section of a G-E Monotop

G-E TEXTOLITE READY-BONDED TO RODDISCRAFT PLYWOOD

For your added convenience Roddiscraft warehouses have engaged leading fabricators in each warehouse community to bond G-E Textolite to Roddiscraft Plywood. G-E Textolite professionally bonded to Roddiscraft Plywood can be cut and installed by carpenters with ordinary tools. No gluing or clamping necessary. Ask your Roddiscraft dealer about G-E Textolite Ready-Bonded Tops.

AVAILABLE WHEN YOU WANT IT

A nationwide warehouse service makes delivery of G-E Textolite fast and reliable. For complete information — patterns, prices and prompt service get in touch with your nearest Roddiscraft dealer.

Dealers exhibiting this display can show you a wide selection of G-E Textolite colors and patterns.

*Reg. U.S. Pat. Off.



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Charlotte 6, N. C. 123 E. 27th St.	Milwaukee 8, Wis. 4601 W. State St.
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Cincinnati 4, Ohio 836 Depot St.	1756 Plaza Ave.
Cleveland 4, Ohio 2717 E. 75th St.	New York 55, N. Y. 920 E. 149th St.
Detroit 14, Mich. 11855 E. Jefferson St.	Port Newark 5, N. J. 103 Marsh St.
Kansas City 3, Kan. 35 Southwest Blvd.	Philadelphia 34, Pa., Richmond & Triana St.
Los Angeles 58, Calif., 2620 E. Vernan Ave.	St. Louis 16, Mo. 3344 Morganford Road
Louisville 10, Ky. 1201-5 S. 15th St.	San Francisco 24, Cal., 345 Williams Ave.
Marshfield, Wis. 115 S. Palmto St.	San Leandro, Cal. 720 Williams St.

So many ways to use...  this abundant ability wood



Bevel and bungalow sidings of West Coast Hemlock excel in all the requirements of a beautiful, durable outside wall covering.



Interior walls paneled with bevel siding of West Coast Hemlock give this room a distinctive and novel atmosphere.

Weyerhaeuser 4-Square

WEST COAST HEMLOCK

The Ability Wood

Those who are working with West Coast Hemlock know it is strong, easy to cut and fit, and remarkably free from checking and splintering. In comparison with other species, this ability wood also is distinguished for its fine texture, straight grain and freedom from pitch. These qualities—and other features—make West Coast Hemlock one of our finest, most popular soft woods.

PROPER PROCESSING OF HEMLOCK

● Weyerhaeuser takes this abundant ability wood and through scientific logging, accurate sawing, controlled kiln-seasoning, precision surfacing, proper grading, careful handling and shipping, produces a wide range of 4-Square West Coast Hemlock lumber products.

Fortunately, there are abundant stands of this superb ability wood on the West Coast . . . in a climate which produces superior Hemlock.

Properly kiln-dried, and carefully manufactured by Weyerhaeuser, 4-Square Hemlock has great merit as a dependable soft wood. It is manufactured in bevel siding, bungalow siding, flooring, framing, ceiling, drop siding, sheathing, boards, paneling, moulding and other items. These products are used interchangeably with other multi-purpose, softwood species.

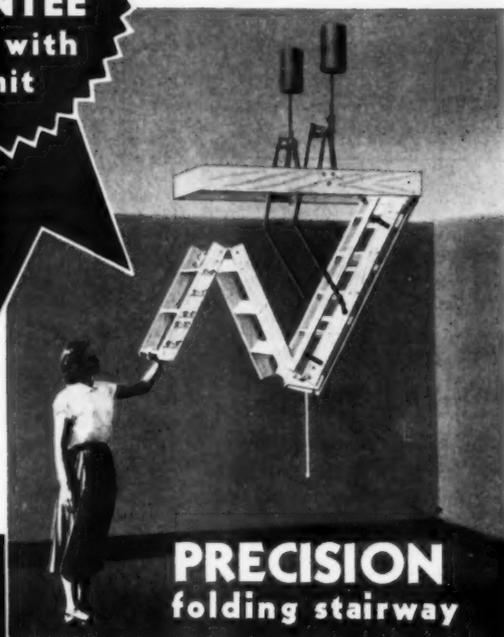
Because Hemlock is such a remarkably versatile wood, many builders are using it with great success in many places. Literature describing the characteristics and use value of Weyerhaeuser 4-Square West Coast Hemlock, the abundant ability wood, will be mailed to you on request.

Weyerhaeuser 4-Square LUMBER AND SERVICES

WEYERHAEUSER SALES CO., ST. PAUL 1, MINN.

BUILD WITH WEST COAST HEMLOCK...THE ABUNDANT ABILITY WOOD

5 YEAR
written
GUARANTEE
furnished with
each unit



PRECISION
folding stairway

No other stairway offers so much!

EASY TO OPERATE—The cleverly engineered counterweights operate on LIFE-TIME ROLLER BEARINGS and silently raise or lower the stairway with practically no effort.

HYDRAULIC SAFETY-CHECK—Prevents slamming on both opening and closing and assures you that the stairway will shut tight and noiselessly.

RUGGED & STRONG—Construction of No. 1 kiln dried lumber throughout. Brackets, rocker arms and hinges cast of special aluminum alloy. Trim furnished on door panel only. All parts are numbered and interchangeable. Frame is made to fit 26" x 54" opening in ceiling.

INSULATED PANEL—Panel is insulated with Cellufoam and protected with tough chip board.

SAFETY TREAD—Each step is covered with full-width composition safety treads. Adds to appearance as well as safety.

FITS ALL CEILINGS—The stairway fits any ceiling from 7 feet to 9 feet 9 inches figured from finished floor to finished ceiling. Runners are graduated to facilitate cutting

off at different heights. Two standard sizes: 8'9" fits from 7' to 8'9" ceiling, 9'9" fits from 8'9" to 9'9" ceiling.

EASY TO HANDLE—Shipped in 1 package assembled. Precision Stairways are packed completely in one heavy carton, assembled complete with jamb and ready for installation, which offers a considerable savings over other attic stairways. Shipping weight 130 pounds.

NO ADJUSTMENTS—NO SPRINGS—REQUIRES NO ATTIC SPACE. Full height above attic floor is only 36". Folds completely into 26" x 54" opening in ceiling.

CAN BE INSTALLED IN ONLY 30 MINUTES—1. Bolt brackets to frame. 2. Place stairway in opening, wedge in, square and nail in place. 3. Bolt connecting link to lever arms, place weights in rocker arms and tighten and stairway is ready to operate.

Accepted by F.H.A. Listed in Sweets. Specified by leading architects. Sold by more than 12,000 dealers in U. S. A. and Canada.

Manufactured by

PRECISION PARTS CORPORATION
400 North First Street • • • Nashville 7, Tennessee



and now . . .

MASONITE SIDING

—the newest member of the Presdwood family!

- Makes every home—new or old—more attractive, modern looking. Improves resale value, too.
- Gives homes the charm and character of lap siding in new, modern widths.

- Available with specially-designed Shadowline wood strips to create a deep, distinctive shadow. Permits smaller overlap.
- Out-weather the weather! Permanent protection against rain, snow, heat—even hailstones. Won't rot or corrode.

- Smoother! Has no knots or grain to rise and disturb the finish. Takes less paint, holds it better and longer. Repainting is *extra* years away!

- Stronger! Resists dents, bumps and scrapes. Won't split, splinter or crack. Won't push nails out.
- No short lengths. Packaged in full, true-cut 8', 10' and 12' lengths.

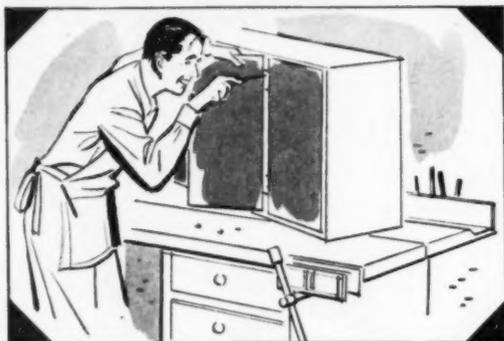
- Choice of widths: Conventional 12", wider 16" and extra wide 24". In $\frac{5}{16}$ " and $\frac{1}{4}$ " thicknesses.
- Corners may be of wood or metal. Use sheathing and building paper if necessary. Use same type of finish as you would on wood.

Now! All the beauty and charm of traditional lap siding—plus more durability, faster application and better paint-retention. That's what you can offer your customers with grainless Masonite siding—an all-wood hardboard. Tested for years both in the laboratory and in actual use.

Specify Masonite Siding on your next job. It pays off in dollars and in satisfied customers!

VERTICAL SIDING, TOO!

Looking for the unusual? Masonite Tempered Presdwood in the regular 4' width makes an excellent vertical siding material, with batten strips. 8' or 12' lengths will cover most applications in today's new homes.



It's New! MASONITE PRESPLY

—the Presdwood-Plywood Panel that smooths out the tough jobs!

- For every job requiring a strong, rigid and thick panel with smooth and durable surfaces that are easy to finish.
- Core made of at least 3 layers of well-seasoned plywood and outer plies of tough, super-smooth Masonite Presdwood.
- Interior grade. For all interior uses except in cases of high humidity or hard usage.
- Exterior grade. Completely waterproof adhesives. Presdwood facings are tempered to even greater moisture resistance. Out-weather the weather.
- Both types in easy-to-handle 4' x 8' panels. In $\frac{1}{2}$ ", $\frac{3}{8}$ " and $\frac{1}{4}$ " thicknesses.

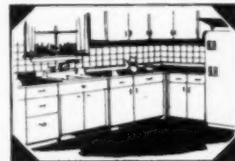
Now—Masonite Presdwood and plywood have been "married" to offer you the best features of both. In Masonite Presply you have a strong, super-smooth, rigid panel that has scores of uses: In the home for cabinets, built-ins, wardrobes, walls, closet doors, etc. In stores and restaurants for fixtures, counter-tops, displays and shelving. In industry for work-benches, tables, shelves and partitions. Often used as forms for exposed concrete construction where smooth surface is required.

Send coupon for complete information about Presply.



MASONITE LEATHERWOOD

- A tempered Presdwood Product with one side richly embossed to simulate Spanish-grain leather. Other side smooth.
- Offers many interesting decorative possibilities—including handsome two-tone effects.
- For wainscots, dens, libraries, cabinet panels, etc.
- Popular in homes, restaurants, theaters, offices and wherever a distinctive, luxurious setting is desired.
- In $\frac{1}{8}$ " thickness only. Apply over solid backing.
- 4-ft. panels up to 12 ft. long.



MASONITE TEMPRTILE®

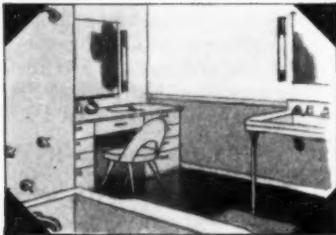
- A tempered Presdwood Product with smooth, clean score lines to create an attractive tile pattern on one side. Other side is smooth.
- Easy to paint or enamel. Use striping tool in score lines to create interesting contrast.
- Highly resistant to moisture and temperature changes.
- For bathrooms, kitchens, laundries. Also used in hospitals, laboratories, stores and restaurants.
- In $\frac{1}{8}$ " thickness only. Apply over solid backing.
- 4-ft. panels up to 12 ft. long.

PRESWOOD'S Family Album

Better Hardboards
for Better Building

featuring

- A type and thickness for every application—33 in all!
- Quality control through constant laboratory testing and careful inspection.
- Nation-wide distribution—available through your local building materials dealer.
- Application instructions in each package.



MASONITE TEMPERED PRESWOOD®

- Our basic Standard Preswood...tempered for extra hardness, durability and weather resistance.
- More than six times as resistant to surface injuries.
- Highly resistant to changes in moisture and temperature.
- For all exterior applications, including farm structures.
- For all applications where extra strength, extra surface hardness and moisture-fighting ability are required.
- One side is extra-smooth; other side has screen impression.
- Like all Preswood Products, it can be sawed, drilled, punched, routed, beveled, bent and sanded. Fastens with nails, screws, bolts and various types of adhesives.
- Choice of natural, brown or black.
- In thicknesses of 1/8", 3/16", 1/4" and 3/8".
- 4-ft. panels, up to 12 ft. long.

MASONITE STANDARD PRESWOOD

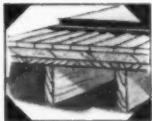


- The original member of the Preswood family.
- An all-wood hardboard made of exploded wood chips that are felted into a hard, dense, grainless board equally strong in all surface directions.
- Smooth surface on one side; screen impression on other.
- Easy to work and to finish.
- Can be bent to graceful curves.
- In thicknesses of 1/8", 3/16", 1/4" and 3/8".
- 4-ft. panels, up to 12 ft. long.



MASONITE PANELWOOD®

- Similar to Standard Preswood, but has less density.
- Fine for interior walls and ceilings, soffits, porch and breezeway ceilings.
- Attractive smooth surface. Finishes beautifully.
- Easy to cut and fit.
- Thicknesses of 3/8" and 1/2" only. Can be applied over solid backing or studs 16" o.c.
- 4-ft. panels up to 12 ft. long.



MASONITE UNDERLAYMENT

- Similar to 1/2" Panelwood, but is planed on screen side to a uniform caliper of .215 inch.
- For use over wood floors or wood sub-floors.
- Provides a smooth, flat surface for linoleum, asphalt tile, rubber tile, cork tile or carpeting.
- Easy to install. In 4' x 4' or 4' x 3' panels.

MASONITE CONCRETE FORM PRESWOOD



- A specially-tempered Preswood for maximum efficiency in concrete form work.
- Insures a smooth surface, virtually eliminating hand rubbing.
- Can be used again and again.
- In thicknesses of 3/8" and 1/2".
- 4-ft. panels, 8 or 12 ft. long.



Both sides
are oh-so-
smooth!
with

MASONITE DUOLUX



EXCLUSIVE 5-FT. WIDTHS!

Both Standard and Tempered Duolux are offered in the regular 4-ft. width and an extra wide 5-ft. width. Makes possible many more joint-free applications.

- For all applications that call for perfectly smooth surfaces on both sides of the board.
- Use in homes, stores, offices, factories, institutions, and on the farm.
- Excellent for signs and displays.
- Available in both Standard and Tempered grades.
- Each grade comes in 1/8", 3/16", and 1/4" thicknesses.
- Each grade in lengths up to 16-ft.

One of the most *usable* members of the entire Preswood family.

Masonite Duolux is *extra smooth*...very receptive to paints, enamels and other surface treatments. Finish stays smooth and flat—permanently.

Just a few of the more common applications in homes: Cabinets, flush doors, door panels, partitions, valances, soffits, built-ins, awnings, shutters and room dividers. Dozens of uses in commercial and industrial buildings as well.

Better Hardboards for Better Building



MASONITE CORPORATION

Dept. AB-4, Box 777, Chicago 90, Illinois

Please send me complete information and technical data about the Masonite Preswood family.

Name.....
Address.....
City.....Zone.....
County.....State.....

"Masonite" signifies that Masonite Corporation is the source of the product

AB-4

RECOMMENDED MAXIMUM SPANS

For Douglas Fir Plywood*

PANEL THICKNESS	PLYWOOD CONTINUOUS OVER 2 OR MORE SPANS			AS SIMPLE BEAM (OVER 1 SPAN ONLY)		
	20 psf	30 psf	40 psf	20 psf	30 psf	40 psf
$\frac{5}{16}$ " rough	23.0	20.0	18.0	18.0	16.0	14.5
$\frac{3}{8}$ " rough	27.5	24.0	22.0	22.0	19.0	17.0
$\frac{1}{2}$ " rough	34.3	30.0	27.0	27.0	24.0	22.0
$\frac{5}{8}$ " rough	43.0	37.5	34.0	34.0	30.0	27.0
$\frac{3}{4}$ " sanded	47.0	41.0	37.0	37.0	32.5	29.5
$\frac{13}{16}$ " rough	53.0	46.5	42.0	42.0	37.0	33.5

* Face grain parallel with span. Deflection limited to 1/360th of span. If deflection of 1/270th of a span permissible, spans may be increased by 10%.

Note:—For roofs with flat decks or pitch not steeper than 3 in 12, and subject to walking traffic, use $\frac{1}{2}$ inch minimum thickness on 24 inch rafter spacing or $\frac{3}{8}$ inch plywood on 16 inch centers. Where blocking is used at panel joints, use $\frac{3}{8}$ inch on 24 inch centers and $\frac{5}{16}$ inch on 16 inch centers.

APPROXIMATE MINIMUM BENDING RADII

For Douglas Fir Plywood

PANEL THICKNESS	APPROXIMATE MINIMUM RADIUS ACROSS GRAIN	APPROXIMATE MINIMUM RADIUS PARALLEL TO GRAIN
$\frac{1}{8}$ Inch	6 $\frac{1}{2}$ Inches	10 Inches
$\frac{1}{4}$ Inch	15 Inches	24 Inches
$\frac{3}{8}$ Inch	36 Inches	54 Inches
$\frac{1}{2}$ Inch	6 Feet	8 Feet
$\frac{5}{8}$ Inch	8 Feet	10 Feet
$\frac{3}{4}$ Inch	10 Feet	12 Feet

Note:—It should be recognized that an occasional panel may rupture at somewhat longer radius than indicated because of characteristics of the wood (such as short grain) in the particular panel.

SOUND INSULATION

PARTITION CONSTRUCTION*	Sound Transmission Loss in Decibels
$\frac{1}{4}$ " Douglas fir plywood, both sides	31.1
$\frac{1}{2}$ " Gypsum Plaster, metal lath, both sides	33.2
$\frac{1}{2}$ " Gypsum Plaster, wood lath, both sides	33.4
SINGLE SHEETS**	
$\frac{1}{8}$ " Douglas fir plywood	22.4
$\frac{1}{2}$ " Fibre board A	22.2
$\frac{1}{2}$ " Fibre board B	21.0

SOUND DEADENING

SOUND ABSORPTION COEFFICIENTS

MATERIAL	FREQUENCY CYCLES					
	128	256	512	1024	2048	Avg.
* $\frac{1}{4}$ " Douglas fir plywood on both sides of 2x4 studs	.31	.11	.14	.12	.10	.16
* $\frac{1}{4}$ " Douglas fir plywood both sides with $\frac{1}{4}$ -lb. felt and wallpaper over plywood	.35	.18	.16	.11	.13	.19
***Plaster, gypsum or lime, smooth finish on lath	.02	...	.03	...	.04	.03
***Plaster, gypsum or lime, rough finish wood paneling	.04	...	.06	...	.05	.05
***Linoleum, asphalt, rubber or cork tile on concrete floor	...	...	.03 to .08	...	...	...

NAIL BEARING LOADS

Ultimate Loads at Standard Plywood Edge-Distances for Laterally Loaded Nail Joints.
(For stud edge-distances one inch or greater.)

PLYWOOD THICKNESSES	NAIL SIZE							
	6d COM.		8d COM.		10d COM.		16d COM.	
	Load	Plywood Edge-Distance	Load	Plywood Edge-Distance	Load	Plywood Edge-Distance	Load	Plywood Edge-Distance
$\frac{5}{16}$ "	335#	$1\frac{1}{2}$ "	420#	$\frac{5}{8}$ "				
$\frac{3}{8}$ "	345#	$1\frac{1}{2}$ "	470#	$\frac{5}{8}$ "				
$\frac{1}{2}$ "			470#	$\frac{5}{8}$ "	500#	$1\frac{1}{2}$ "		
$\frac{5}{8}$ "			470#	$\frac{5}{8}$ "	575#	$\frac{5}{8}$ "	620#	$\frac{5}{8}$ "
$\frac{3}{4}$ "					575#	$\frac{3}{4}$ "	675#	$\frac{3}{4}$ "

(Continued from page 142)

Plywood is an engineered panel material made up of three or more layers of veneers bonded together with glue, with the grain direction of each ply at right angles to that in the adjacent ply. An odd number of plies is nearly always used to obtain balanced construction. While plywood panels are produced in a wide range of both soft and hardwoods, over 90 per cent of all plywood used in light construction is supplied by the Douglas fir plywood industry.

SHEATHING, SUBFLOORING, ROOF DECKING

Plyscord is the recommended grade of plywood for sheathing, subflooring and roof decking. Certain veneer defects not affecting its serviceability may appear on both surfaces. It has moisture-resistant bonding.

Plyscord $\frac{5}{8}$ -inch thick is recommended for use as roof sheathing over rafters 16 inches on center under both wood and asphalt shingles. Wood shingles, however, must be applied with nailing strips unless $\frac{1}{2}$ -inch plywood is used. The rafters may be spaced 24 inches on center when $\frac{1}{2}$ -inch plywood is used.

The minimum thicknesses of Plyscord when used for wall sheathing are $\frac{5}{8}$ -inch for 16-inch stud spacing and $\frac{3}{8}$ -inch for 24-inch stud spacing. Corner braces in house framing may be eliminated when 4 by 8-foot sheets of plywood are nailed with 6d nails, 6 inches on center on all edges and 12 inches on center at intermediate bearings. When $\frac{5}{8}$ -inch plywood is applied as wall sheathing, wood shingles may be fastened directly with ring-barbed nails. If barbed nails are not used, nailing strips must be employed.

One-half inch plywood is permitted as a base for wood finish and all composition types of flooring when the following application methods are followed: (a) joist spacing not more than 16 inches on center; (b) blocking installed under all panel edges at right angles to joists and (c) nailed securely 6 inches on center at all edges and 10 inches on center at intermediate framing members. Further, joist spacing may be increased to 20 inches if $\frac{5}{8}$ -inch plywood is used and to 24 inches if $\frac{3}{4}$ -inch plywood is used when requirements (b) and (c) above are followed. Lay panels with outer grain across the joists.

In all cases correct nailing techniques must be followed for fastening the plywood and other components of

(Continued on page 151)



Coming in with
a **ROAR**
to make your sales
SOAR!
...the new
Weldwood® Panel

Surfwood*

Priced For Business ... And Profits!

Surfwood is priced for any building budget! Its picturesque, natural appearance... its ease of installation... freedom from maintenance... appeals to both the builder doing luxury installations and the man who wants something special but must have low cost materials.

Its rustic air of informality will create a big demand for use in such diversified places as ranch and summer homes, offices, country clubs, rumpus rooms, cocktail lounges.

Ride in on SURFWOOD to greater sales and profits! Get in touch with your nearest Weldwood distributing unit today!

This handsome, new paneling duplicates all the weathered surface details, color and charm of wood aged by long exposure to the sea. This effect even includes open and sound knot-holes... which add greatly to the natural appearance of Surfwood.

Here is a panel that will weather the sea of time... will always *stay* beautiful... always remain a big hit with your customers.

Surfwood is Weldwood Fir Plywood, bonded with the amazing new L-1R adhesive which not only resists moisture but also withstands mold.

Surfwood is made in 48" x 96" size, 5/16" thick.

*T. M. Registered

WELDWOOD® Plywood

a product of

UNITED STATES PLYWOOD CORPORATION

World's Largest Plywood Organization

Branches in Principal Cities • Warehouses in Chief Trading Areas • Dealers Everywhere



customers can choose from 3 Ez-Way units

Ez-Way's 3-unit line means easy sales...

Three outstanding stairway units in the EZ-Way 1953 line completely cover your market when you're selling customers the way to "more room for living". There's no excuse for waste attic space on any purchasing level with EZ-Way's 3-way selection!



EZ-WAY Folding Attic Stairway

Ideal for remodeling or new construction, the EZ-Way Folding Stairway converts waste attic or loft space to living or storage quarters at the lowest possible conversion cost. Shipped completely assembled.

- Touch controlled, balanced spring action
- No counterweights • Sturdily built
- Saffi-Walk steps • Decorative styling

SPECIFICATIONS

Model 18 Model 22 (heavy duty)
 Rough opening . . . 26"x54" . . . 30"x62"
 Stringers 4" 5"
 Steps 4"x18" . . . 5"x22"
 Run 5" 6"
 Rise 9" 9"
 Ceiling Heights . . . 7' to 9' . . . 7' to 10'

EZ-WAY Economy Ladder

Costing only slightly more than a large step ladder, the EZ-Way Economy Ladder can be installed with no alteration to the attic scuttle hole. Rigidity and sure-footing are designed into the Economy Stairway. Easily operated by a woman or child.

SPECIFICATIONS

Model 15
 Any opening 18" x 24" or larger—
 (a) Maximum floor to floor height 9'2"
 (b) Minimum vertical clearance in attic 4'7"
 (c) Clearance on attic floor 4'1½"
 If the floor to floor height is less than 9'2" the vertical clearance (see b) required in attic will be reduced.



EZ-WAY Sliding Stairway

Developed especially for the mass housing market, this inexpensive stairway serves two needs—when not in use as a stairway, it is easily demounted for use as a utility ladder around the home and farm. Simplest, most effective stairway available in this price range!

SPECIFICATIONS

Model 20
 Finished opening 24"x36"
 Stringers 1½"x3½"
 Rise 10"
 Steps 4"x15"
 Maximum floor to floor height . . . 9'
 Maximum vertical clearance in attic . 4'6"
 Clearance on attic floor 6'1"



Sell the profitable idea of "More Room For Living" with EZ-Way stairway units.

Write for name of nearest distributor

EZ-WAY SALES, Inc.

BOX 300-7

ST. PAUL PARK, MINN.

allowable spans for douglas fir floor joists

DRESSED LUMBER, Includes S4S and S2E

Nominal size (inches)	Spacing c. to c.	1900-I Select Structural Framing etc.		No. 1 Framing, Joists, Plank		No. 2 Framing, Joists, Plank		No. 3 Framing, Joists, Plank	
		Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2 x 6	12	11	3	11	3	11	3	7	7
	16	10	2	10	2	10	2	6	7
	20	9	6	9	6	9	2	5	10
	24	8	11	8	11	8	4	5	4
2 x 8	12	15	0	15	0	15	0	11	8
	16	13	8	13	8	13	8	10	1
	20	12	8	12	8	12	2	9	0
	24	11	11	11	11	11	2	8	3
3 x 8	12	17	8	17	8	17	8	14	10
	16	16	0	16	0	16	0	12	10
	20	14	11	14	11	14	11	11	6
	24	14	0	14	0	14	0	10	6
2 x 10	12	19	0	19	0	19	0	15	11
	16	17	3	17	3	17	3	13	9
	20	16	1	16	1	15	5	12	4
	24	15	1	15	1	14	1	11	3
3 x 10	12	22	4	22	4	22	4	20	1
	16	20	3	20	3	20	3	17	6
	20	18	10	18	10	18	10	15	8
	24	17	9	17	9	17	9	14	4
2 x 12	12	23	0	23	0	23	0	18	7
	16	20	10	20	10	20	10	16	1
	20	19	5	19	5	18	8	14	5
	24	18	3	18	3	17	1	13	2

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.

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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.

Name

Street

City State

SAVE. Send \$3.75 with your order. We pay postage, handling. Same trial terms.

AMERICAN BUILDER

(Continued from page 148)

floors, walls, and roofs. For nailing $\frac{5}{8}$ -, $\frac{3}{8}$ - and $\frac{1}{2}$ -inch Plyscord, 6d common nails should be used. The $\frac{3}{8}$ -inch Plyscord should be fastened with 8d common nails. Nails should be spaced not more than six inches apart at the edges of panels and not more than 12 inches apart on other bearings when plywood is used for sheathing or subflooring.

FOR EXTERIORS

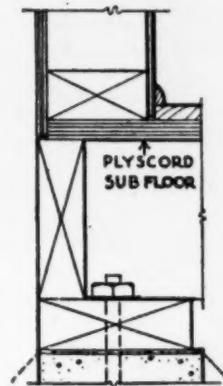
For exterior use, only the exterior grades of plywoods, with waterproof adhesive bonding, should be applied. Plyshield is specifically produced for use as siding; one face is sound veneer and ready for any type of finishing.

The minimum thickness of plywood recommended for siding is $\frac{3}{8}$ -inch, although, for economy in some types of construction, $\frac{1}{4}$ -inch panels are used successfully. For construction of single-wall structures, such as warehouses, $\frac{1}{2}$ -inch or thicker Plyshield siding has been used with success and economy.

Exterior plywood siding should be applied with non-corrosive nails. The common, hot-dipped galvanized type is satisfactory. Nailing should be with 6d common or with 6d box nails for $\frac{3}{8}$ -inch siding and 8d for thicker siding. When full-size 4 by 8-foot or longer panels are used, fastenings should be spaced not more than 6 inches on center at panel edges and 12 inches elsewhere. When narrow 12- to 24-inch panels are installed as lap-siding, nailing at panel ends should be not more than 4 inches on centers.

All edges of plywood siding, no matter whether butted, veed, covered, or exposed, should be bedded in a thick lead and oil paste or other suitable compound. This is knifed on as the panels are applied. Filler or bedding specifications are: 100 pounds of paste white lead, one and three-quarters gallons of raw linseed oil and one pint of dryer. Reduce dryer to one-half pint if boiled linseed oil is used.

If plywood is installed as lapped siding, the lap should be at least two inches and bedded in paste. The verti-



EXTERIOR WALL section running across the joists. First joist is set $\frac{5}{16}$ -inch outside of stud line to provide for $\frac{5}{16}$ -inch plywood panel. This simplifies use of standard 4 by 8-foot sheathing panels applied either vertically or horizontally

cal joint should be backed with narrow strips of wood shingles tacked to the studs. The vertical butt joints may also be flashed by a strip of asphalt-impregnated building paper tacked over the shingle and lapped just over the course below. Horizontal edges of plywood used as lapped siding should be beveled slightly so water will drip from the outside edge.

FOR INTERIORS

Plypanel is the grade of fir plywood designed for finishing walls, ceilings, partitions, storage walls, cabinets and built-in furniture where only one surface is to be exposed.

Thicknesses most popular for wall paneling are the $\frac{3}{8}$ -inch and $\frac{1}{4}$ -inch panels, while the $\frac{1}{2}$ -, $\frac{5}{8}$ - and $\frac{3}{4}$ -inch thicknesses have widespread use in cabinets, built-ins and doors.

For good wall construction, Plypanels $\frac{3}{8}$ -inch thick are recommended, over studs 16 inches on center. Apply panels either vertically or horizontally; the latter affords extra rigidity.

Some building codes require a 2- by 4-inch fire stop about four feet from the floor, between studs. This horizontal member serves as backing for plywood panels and is recommended.

Plywood panels $\frac{3}{8}$ -inch-thick are fastened with 6d finish or casing nails spaced 6 inches on center and $\frac{1}{4}$ -inch panels are applied with 4d finish nails.

A basic principle in applying plywood paneling is to start at openings with vertical joints and divide plain wall spaces in any preferred, orderly

(Continued on page 152)

TYPICAL DOUGLAS FIR PLYWOOD THICKNESSES FOR FARM SERVICE BUILDINGS

	Floor		Walls		Roof		Notes
	Plywood Thickness	Joist Spacing	Plywood Thickness	Stud Spacing	Plywood Thickness	Rafter Spacing	
Grain Bins*	$\frac{3}{8}$ "	12"	$\frac{1}{4}$ " ^a , $\frac{5}{16}$"	.....	$\frac{3}{8}$ "	24"	12' Height
Round			$\frac{3}{8}$ "				
Rectangular	$\frac{3}{8}$ "	12"	$\frac{1}{4}$ "	12"	$\frac{3}{8}$ "	24"	8' Height
			$\frac{3}{8}$ "	16"			
Corn Cribs*	$\frac{3}{8}$ "	12"	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	12' Height
Silos*	.....	.....	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	24"
					$\frac{1}{4}$ "	$\frac{3}{8}$ "	Glued construction. Double skin bottom half, 14" diameter, 32" high.
Lining			$\frac{1}{4}$ "		$\frac{1}{4}$ "		
Horse Barn	.....	.....	$\frac{1}{2}$ "	16"	$\frac{3}{8}$ "	24"	Inside wall lining.
Stall Partitions	.....	.....	$\frac{3}{8}$ "	24"	.....	.....
Horse Trailers	.....	.....	$\frac{3}{8}$ "	24"	.....	.....	Glued construction.
Calf Barn	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Partitions	.....	.....	$\frac{3}{8}$ "	24"	.....	.....
Loafing Barn	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Milking Barn	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Milk House	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Hog Farrowing House	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Portable House	$\frac{1}{2}$ "	16"	$\frac{3}{8}$ "	16"	$\frac{1}{4}$ "	16"	Glued construction.
Wallowing Trough	$\frac{3}{8}$ "	24"	$\frac{1}{2}$ "	24"	.....	.....	Glued construction.
Feeder	$\frac{3}{8}$ "	24"	$\frac{3}{8}$ "	24"	$\frac{3}{8}$ "	24"	
Pig and Lamb Brooders	$\frac{1}{4}$ "	24"	$\frac{1}{4}$ "	24"	$\frac{1}{4}$ "	16"	
Poultry House	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	$\frac{3}{8}$ "	24"	
Portable Brooders	$\frac{3}{8}$ "	16"	$\frac{1}{4}$ "	24"	$\frac{1}{4}$ "	24"	Glued construction.
Watering Tank and Trough	$\frac{1}{2}$ "	24"	$\frac{1}{2}$ "	24"	.....	.....	Glued construction.
Tobacco Curing Barn	.....	.....	$\frac{3}{8}$ "	16"	$\frac{1}{4}$ "	16"	
Fruit and Vegetable Storage	.....	.....	$\frac{3}{8}$ "	16"	$\frac{3}{8}$ "	24"	
Fumigation Chamber	$\frac{1}{8}$ "	16"	$\frac{1}{4}$ "	16"	$\frac{1}{4}$ "	16"	
Refrigerators and Freezers	$\frac{3}{8}$ "	16"	$\frac{1}{4}$ "	16"	$\frac{1}{4}$ "	16"	
Machine Sheds	.....	.....	$\frac{3}{8}$ "	24"	$\frac{3}{8}$ "	24"	
Septic Tank Forms	.....	.....	$\frac{3}{4}$ "	24"	.....	.....
Chutes and Air Ducts	.....	.....	$\frac{1}{4}$"	.....	.....	.....
Doors	.....	.....	$\frac{1}{2}$ "	$\frac{5}{8}$"	.....	.....

*Design of these structures depends on capacity and dimensions. Check with existing plans, especially for adequate nailing and bracing.

NAILING—For most buildings listed above, general plywood nailing recommendations are as follows: Use 4d common nails for panels less than $\frac{1}{2}$ ", 8d common otherwise. Space nails $\frac{3}{8}$ " in from edge and 6" on centers at panel edges, 12" on inner bearings.

arrangement. Often moldings are applied to obtain horizontal stream-lined effects or a variety of paneled designs. V-grooves, easily made with portable electric routers, can be effectively employed to simulate narrower paneling or to make designs on the panel face. Lapping of panels is particularly effective in ceilings.

PLYWOOD ON THE FARM

Because plywood used in farm service structures is constantly or repeatedly exposed to weather, to wetting during cleaning, or to high humidities (as in dairy barns), only the exterior grades with waterproof adhesive bond should be used.

HARDWOOD PLYWOOD

The application measure set down for fir plywood can generally be followed for hardwood plywoods used on interiors with a few additional cautions. To achieve the best results, furring strips of 1/4-inch plywood, cut two inches wide with the grain running the short way, should be nailed to the studding and blocking. By use of the furring strips, individual panels are practically united into a single unit of wall which swelling or shrinking of the building will not affect.

CONCRETE FORMS

Two standard grades of fir plywood are especially produced for concrete form use: (1) Plyform, for multiple re-use, made with highly water-resistant but not waterproof adhesives; (2) exterior-type fir plywood, grade-marked EXT-DFPA-Concrete Form, with a completely waterproof bond between the plies. Plastic-surfaced plywood is available for constructions requiring the best possible appearance of the concrete surface.

The thickness of plywood to use in concrete forms depends on the loads, permissible deflection, and spacing of studs, joints or stiffeners. The 5/8-inch and 3/4-inch are the most popular thicknesses. It is axiomatic that the supporting framework, studs, wales, posts and joists must be constructed for deflection, bending strength and shear in studs and joints and for column action in posts. Plywood requires proper support from studs or joists. The height and rate of pour as well as fluidity affect pressures against the forms and spacing of supports. Values are calculated on panels placed with face grain across the studs:

Thick- ness	Stud Spacing	Limiting Deflection	Maximum Load
3/8"	12"	1/270 of Span	880 lbs. sq. ft.
3/8"	12"	1/270 of Span	1,330 lbs. sq. ft.
3/8"	16"	1/270 of Span	560 lbs. sq. ft.
5/8"	12"	1/360 of Span	660 lbs. sq. ft.
3/4"	12"	1/360 of Span	1,000 lbs. sq. ft.
3/4"	16"	1/360 of Span	420 lbs. sq. ft.

HARDBOARDS

Types and Uses

Hardboards are panels processed from ligno-cellulose fibers which are the result of exploding wood chips under high-pressure steam. The fibers are then compressed into the desired panel thickness and density in thermal hydraulic presses. A quick reference chart shown on these pages gives the physical properties and panel sizes available for the seven basic types of structural and surface-finishing hardboards.

Hardboard is known as "the wonder wood of 1,000 uses." It is extensively used as a material for modernizing commercial interiors and exteriors, for cabinets and other built-in features in houses, and for bevel siding in home building. It is flexible and can be applied in curved designs. The surface is hard and resistant to dents and wear, and is an excellent base for any kind of finish.

Preliminary Conditioning

All hardboards should be pre-expanded before application. When using tempered hardboard for interior use the panels should be pre-expanded by applying cold water to the reverse (screen) side, at the same time scrubbing with a broom or brush. No water should be left standing on the smooth surface or boards will not retain their original color. After the surface has turned a dark brown color, stack screen side to screen side and allow the board to stand for 12 to 16 hours. Then apply in this damp condition.

When using tempered hardboard for exterior finish, follow the same pre-expansion process as above, but let the board stand for 24 hours before applying.

Hardboards with tile face or leather finish have a lower rate of water absorption. To pre-expand such hardboards, it is necessary to stack, screen

MINIMUM BENDING RADII OF HARDBOARDS

	Heated Equipment Bending Forms Heated to 300°-450°F		Cold Moist Bends		Cold Dry Bends		
	Smooth Side Out	Smooth Side In	Smooth Side Out	Smooth Side In	Smooth Side Out	Smooth Side In	
Standard Hardboard	1/8"	2 1/2"	2"	8"	4"	12"	10"
	3/16"	3 1/2"	2 1/2"	12"	6"	18"	12"
	1/4"	5"	4"	18"	14"	26"	22"
	5/16"	6"	5"	28"	16"	40"	28"
Tempered Hardboard	1/8"	2 1/2"	2"	4"	3 1/2"	9"	6"
	3/16"	3"	2 1/2"	8"	5 1/2"	13"	10"
	1/4"	4"	3"	16"	10"	24"	18"
	5/16"	6"	5"	24"	14"	36"	24"
Leather-textured Hardboard	1/8"	3"		10"		14"	

TABLE showing minimum bending radii for hardboards by thickness and type

Inch Thick	HARDBOARDS—THICKNESSES, SIZES, WEIGHTS								Lbs. per Sq. Ft.	
	Dimensions in Feet									
Standard										
3/8"	4x12	4x10	4x9	4x8	4x7	4x6	4x5	4x4	4x3	0.76
3/16"	4x12	4x10	4x9	4x8	4x7	4x6	4x5	4x4*	4x3*	1.01
1/4"	4x12	4x10*	4x9	4x8*		4x6*		4x4*	4x3*	1.36
5/16"	4x12	4x10*	4x9	4x8*		4x6*		4x4*	4x3*	1.72
Panelwood										
3/16"	4x12	4x10		4x8				4x4	4x3	0.90
Tempered										
3/8"	4x12	4x10	4x9	4x8	4x7	4x6	4x5	4x4	4x3	0.79
3/16"	4x12	4x10	4x9	4x8	4x7	4x6	4x5	4x4*	4x3*	1.10
1/4"	4x12	4x10*	4x9*	4x8*		4x6*		4x4*	4x3*	1.42
5/16"	4x12	4x10*	4x9*	4x8*		4x6*		4x4*	4x3*	1.76
Black Tempered										
3/8"	4x12	4x10*	4x8*	4x6*	4x4*	4x3*				0.79
3/16"	4x12	4x10*	4x8*	4x6*	4x4*	4x3*				1.10
1/4"	4x12	4x10*	4x8*	4x6*	4x4*	4x3*				1.42
5/16"	4x12	4x10*	4x8*	4x6*	4x4*	4x3*				1.76
Concrete Form										
3/16"	4x12	4x10*	4x8*							1.13
1/4"	4x12	4x10*	4x8*							1.46
Tile Finish										
3/8"	4x12	4x10*	4x8	4x6*	4x5*	4x4	4x3			0.84
Leather Finish										
3/8"	4x12	4x10*	4x9*	4x8	4x7*	4x6	4x4*	4x3*		0.84

Items marked (*) are available only when on inventory

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Redwood



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- ✓ Greatest Durability
- ✓ Good Workability
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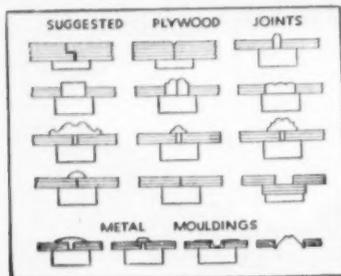
100 Bush St., San Francisco 4 • 35 East Wacker Drive, Chicago 1 • 5225 Wilshire Blvd., Los Angeles 36

MEMBER OF CALIFORNIA REDWOOD ASSOCIATION

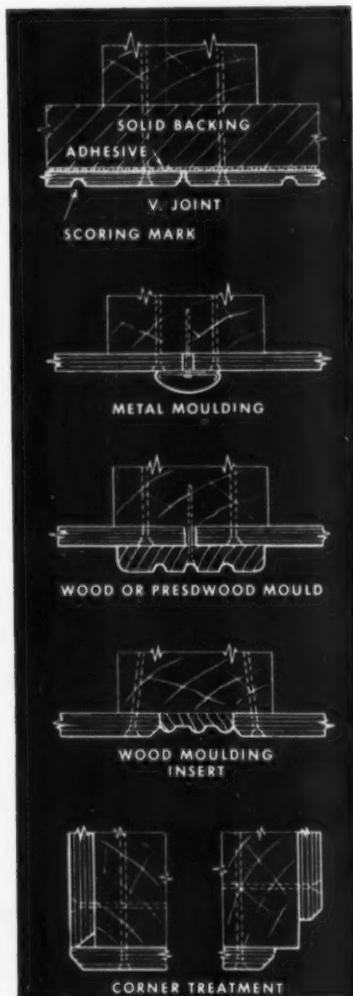
side to screen side, with wet cloths or newspapers between the panels and allow to stand for 12 to 16 hours. Cover stacks to reduce evaporation.

Working with Hardboards

Use typical woodworking procedures and ordinary carpenter's tools when building with hardboards. Pan-



SUGGESTED joint treatments for interior plywood walls. Wood or metal mouldings may be utilized



SUGGESTED joint treatments for hardboard interior paneling. A slight space between panels is recommended

els can be sawed, planed, routed, drilled, punched, shaped or bent into simple curves. Just observe these three "don'ts": Don't toenail; don't drive nails in the edges; don't nail moulding, etc., onto hardboards without any backing, for the hardboard will not hold the shank firmly.

The cross-cut saw with 8 to 12 points per inch and a No. 6 set should be used for straight cutting. Pressure should be little more than the weight of the saw. Power saws save time and may be used. Use a coping or compass saw for cutting irregular, curved and inside edges. Turn the intended exposed surface up when cutting. This procedure will leave a sharper corner on the face edge in addition to helping protect the face side of the panel.

Holes should be drilled if screws are to be used as fastenings. Counter-bore holes if the screw head is to be flush or below the surface. For circular holes, a twist drill will work more satisfactorily than an auger bit.

For concealed nail heads, use finishing or casing nails and set with a nail set. Then fill with putty or

plastic wood, over the head, after the prime coat of paint has been applied.

Making Bends

Hardboards can be bent into simple curves by the cold dry, cold moist, or the hot method. The method used depends upon the radius of the curve desired. (See bending radii chart).

Installing Hardboards

Hardboards may be applied over solid backing such as wood, gypsum lath, gypsum wallboard and plaster, or directly to studs or furring strips not more than 16 inches on center. Solid, continuous support must be maintained behind both horizontal and vertical joints. When applying directly over studs, hardboards should be at least $\frac{3}{16}$ -inch thick.

When hardboards are to be attached to solid surfaces the panels should first be cut to fit loosely in position on the area to be covered. Never fit panels tightly abutting each other. Then, by using a saw tooth trowel with notches of approximately $\frac{3}{16}$ -inch depth, spread waterproof adhesive over the entire back of the panel. Spread on all edges. Be careful not to get it on the surface which is to be exposed.

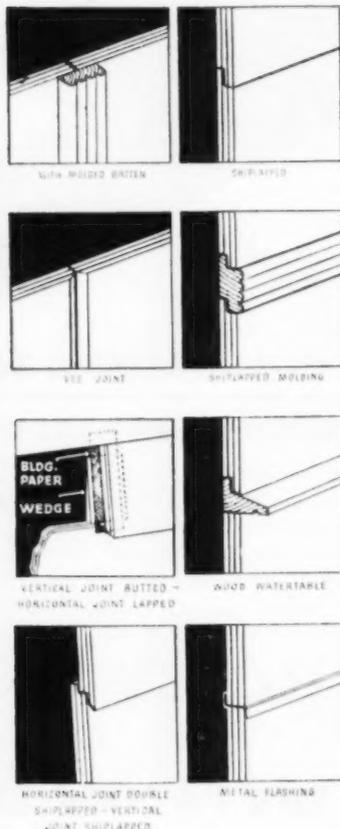
Place panel in position immediately after adhesive is applied. Press and tap it to get a firm contact over the entire area. It is then desirable to place braces or supports against the panel to hold it in place. (See diagram). Time required to set is usually overnight. Nails may be used in place of shoring if base surface permits firm anchorage.

Concrete Form Hardboards

Specially tempered hardboards are for concrete form use and should be pre-expanded before being applied to the framework of a concrete form. Scrub water into the screen side and then stack screen side to screen side, covered, and let stand for 24 hours.

Panels are then applied to the form construction in the moist condition with the smooth side against the concrete and nailed securely. Screen side of panel may be used against the concrete if rubbing is required to produce a uniform surface color on concrete.

Necessary bevels can be formed of smooth, straight-grained wood and nailed through the fiber board and into the backing. Before first use or re-use the panel surface which bears against the concrete should be wiped with waste saturated with grease having a calcium soap or aluminum stearate base, or with waste dipped in paraffin base oil having a viscosity of not less than 250 seconds at 100 degrees Fahrenheit (Saybolt) and free from volatile constituents.

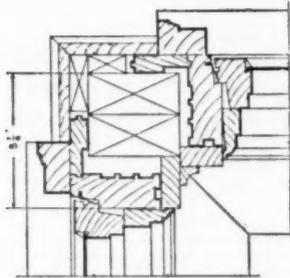


WHEN JOINTS are recognized as such and made a part of the architectural design they are usually easier to treat. Above are shown eight popular treatments for plywood siding joints

structural details - wood casements

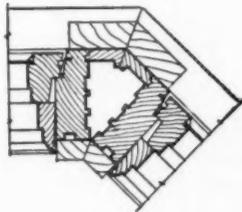
Installation of standard wood casement unit in frame wall. This unit has reversi-

CORNER WINDOW DETAIL— $\frac{1}{8}$ scale



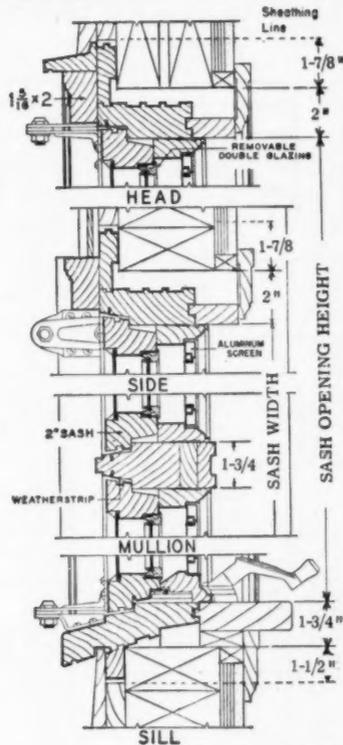
Angle iron or steel column can be used in place of 2x4's. Sash may be either swinging or stationary.

ANGLE BAY DETAIL— $\frac{1}{8}$ scale



Section through angle mullion made from standard units. Specify long sill horn for mitering.

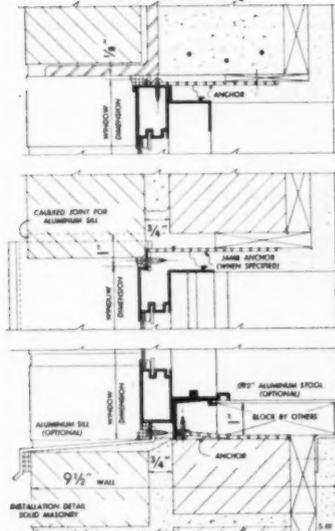
ble windbreaks for either $\frac{3}{4}$ " or $\frac{1}{2}$ " sheathing. Plaster reveal inside finish can be used in place of extension jambs and casing trim



Andersen Corporation Data

structural details - aluminum horizontal

Solid Masonry

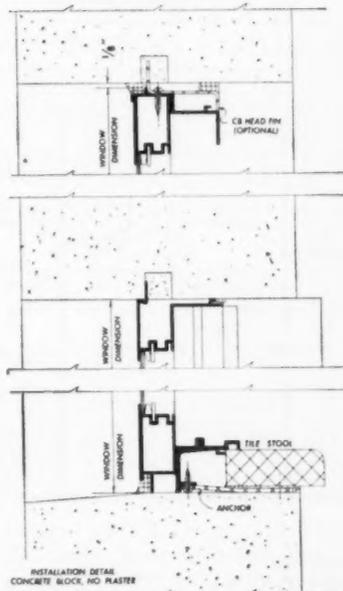


ROUGH OPENING: WINDOW WIDTH + 2"
WINDOW HEIGHT + $\frac{1}{4}$ "

Horizontal sliding windows of aluminum require no painting, are easy to install and maintain

APRIL 1953

Concrete Block



INSTALLATION DETAIL
CONCRETE BLOCK, NO PLASTER

ROUGH OPENING: WINDOW WIDTH + 0"
WINDOW HEIGHT + $\frac{1}{4}$ "

Peterson Window Corporation Data

WINDOWS, DOORS AND FRAMES

Windows

Casements

Metal

Wood

Horizontal Sliding

Double-hung

Metal

Wood

Awning Types

Walls of Glass

Double glass

Glass block

Pivoted and Projected

Storm Sash and

Combinations

Basement and Utility

Special Types

Doors

Wood

Metal

Glass

Combination

Cabinet and Cupboard

Special Types

Frames

Basic Principles

Door Frames

Window Frames

Wood

Metal

Screening

Venetian Blinds

Installation Details

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.

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PERMA-TREATED FOR LONG LIFE

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20-INCH GLASS width in 14-16-18-inch heights. 1 to 5 vent windows.



32-INCH GLASS width in 14-16-18-inch heights. 1 to 5 vent windows.



40-INCH GLASS width in 14-16-18-inch heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.



44-INCH GLASS width in 14-16-18-inch heights. 1 to 5 vent windows. Top vent fixed in 5-vent units.



FIXED SIDE LIGHT units for combining with operating units. 16-inch glass width. 1 to 5 vents high.



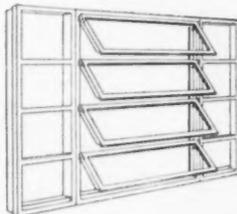
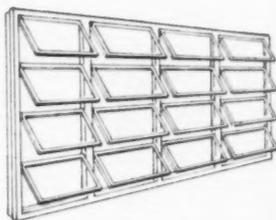
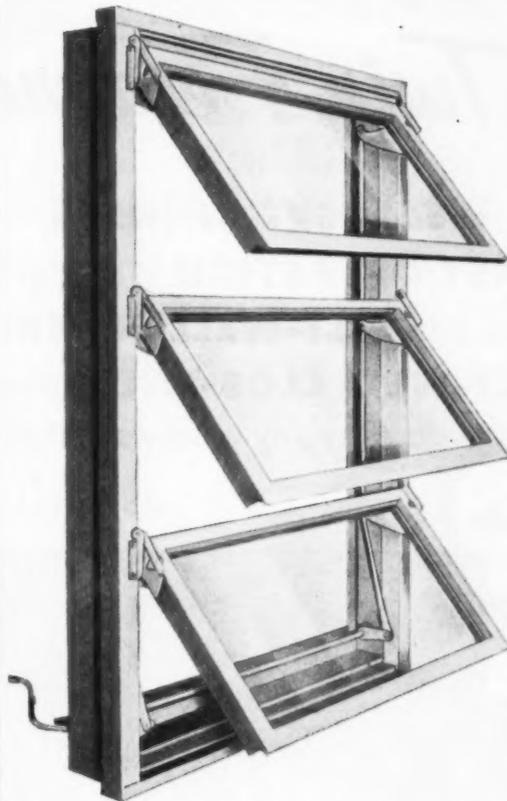
PLATE GLASS FRAMES for combining with operating units. In width desired, to match 1 to 5 vent heights.

Unexcelled

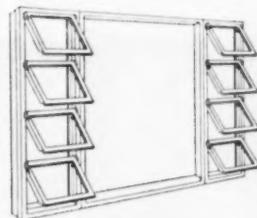
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Each window delivered to the job factory-assembled, glazed, with hardware installed and semi-prefit inside screens. Quick, easy installation saves costly labor time. Prompt delivery of stock sizes and styles to fit every need.

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- ALL WOOD Perma-Treated for resistance to rot, fungi and termites.
- ALL JAMB sections cushion seal weatherstripped. Factory-installed spring bronze horizontal weatherstripping at slight additional cost.
- SCREENS FURNISHED as standard equipment. Storm sash interchangeable with screens.
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- ALL HARDWARE easily accessible for inspection and oiling.



PICTURE WINDOW BEAUTY with plenty of ventilation easily accomplished. Combine perfectly with plate glass centers or fixed side lights.

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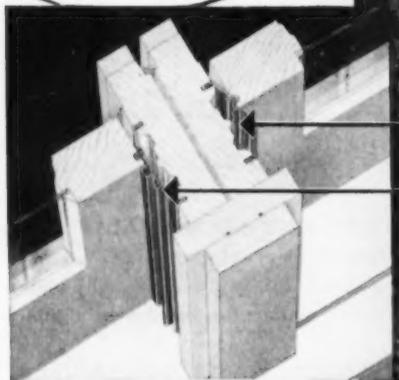
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Twin Features:



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and **EASY OPERATION** to save irritation—
make both **BILT-WELL SUPERIOR** double-hung units
and **BILT-WELL CLOS-TITE** casements the
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BILT-WELL
Superior
wood windows



"SUPERIOR" JAMB-LINER

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BILT-WELL SUPERIOR Windows give you **TWICE** the protection against air infiltration as required by American Wood Window Institute's Specifications by **Actual Tests**. And, Superiors require only 1/10th the lifting effort of most other effectively weatherstripped windows. Yes,—Superior's patented Jamb-liner is the secret. This exclusive feature provides flexibility which insures both finger-tip lift and snug-fitting windows. And "Superiors" are counter-balanced with **guaranteed** overhead spring balances. These fine features are permanent, no adjusting or servicing. **NO OTHER WINDOW IS COMPARABLE!**

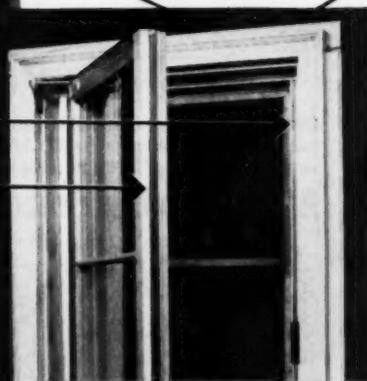
BILT-WELL CLOS-TITE Casements are double weatherstripped to provide the twin features—weathertightness and ease of operation. Full $\frac{3}{16}$ -inch clearance between beveled edge of sash and frame insures bind-free operation. Both sash and frame are weather-stripped, plus the additional insulating feature of twin glass on all sash. Cadmium finish (weatherproofed) hardware includes patented Extension Hinges (for easy cleaning) and a quiet, smooth Crank-type Operator. Locking handle is bronze plated.

The Bilt-Well Line of Building Woodwork (everything for the home) is made of clear, kiln-dried Ponderosa Pine. Essentially all exterior products are toxic, water-repellent treated in accordance with National Woodwork Manufacturers Association Standards.

The complete Bilt-Well Line—everything in woodwork for the home: Superior Unit Wood Windows • Clos-Tite Casements • Nu-Style & Multiple-Use Cabinets • Carr-dor Garage Doors • Combination Doors • Screens & Storm Sash • Basement Unit Windows • Shutters • Exterior Doors • Interior Doors • Entrances • Louvers & Gable Sash • Corner China Cabinets • Ironing Board Cabinets • Mantels • Telephone Cabinets • Stair Parts

Manufactured by

CARR, ADAMS & COLLIER² CO., *Dubuque, Iowa*

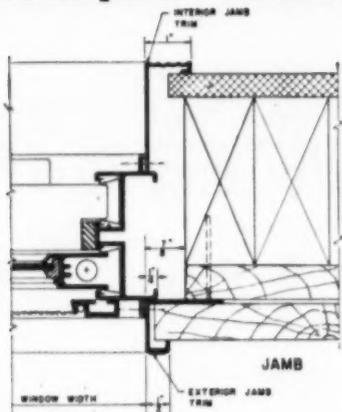


DOUBLE WEATHERSTRIPPING

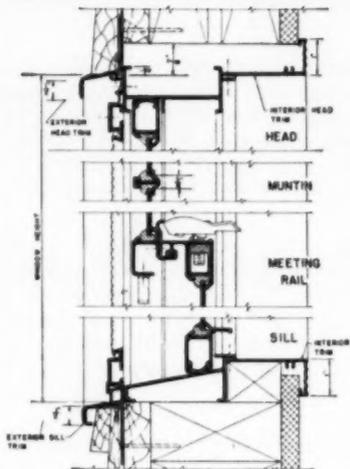
Spring tension weatherstrip (on both sash and frame) is made of anodized aluminum alloy. It is neat, nailless—rolled into a saw kerf in the frame stops at head, sides and sill, and into the four edges of sash. Therefore, sash do not bind even when tested under the most extreme moisture conditions.



detail plates - aluminum double-hung windows

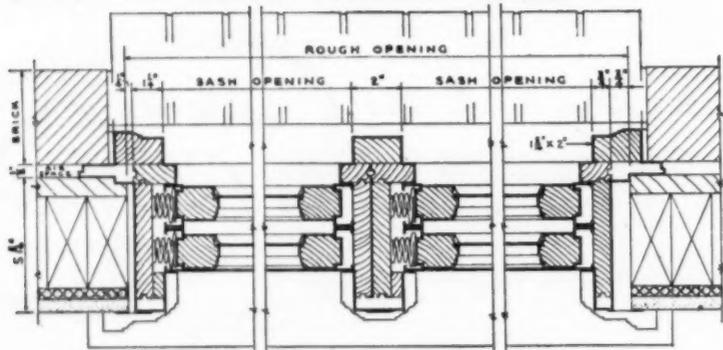


Care should be taken with aluminum windows to avoid scratches or stains from plaster droppings. Coat sash with petroleum jelly after installation to make for easy cleaning later



Reynolds Aluminum Data

spring sash double-hung wood windows

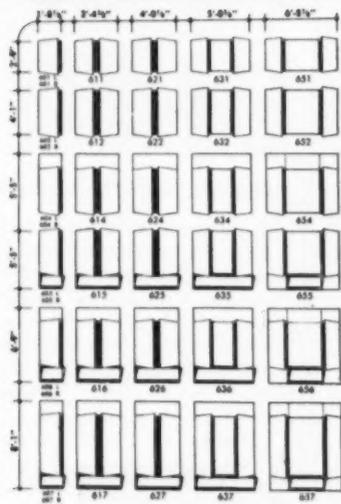


SPRING SIDE JAMB MULLION STATIONARY SIDE JAMB

Courtesy R. O. W. Sales Company

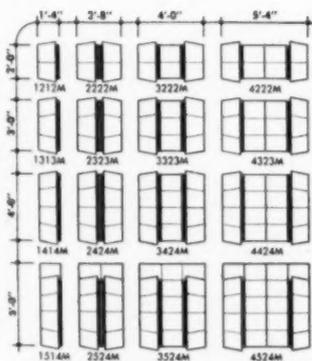
Detail plate shows construction features and installation of spring sash wood double hung windows. Factory-fitted windows are delivered to site semi-assembled, weather-stripped, with metal lining for side jambs screwed on and horizontal metals installed

AWMA modular sizes - aluminum casements



Aluminum Window Manufacturers

A.W.M.A. MODULAR



C-A1 CASEMENT WINDOWS in new AWMA modular sizes for residential construction. Dimensions are window opening dimensions. Single ventilator units may be hinged right or left. Fixed types furnished for all sizes shown. C-A2 and

(Continued from page 156)

Double-Hung Windows

The double-hung window is probably the most common in American architecture, and modern improvements in weights, balances, and weather stripping have kept these windows competitive with most other types in modern construction.

Metal Double-Hung

Metal double-hung windows have the same characteristics of other metal windows; they are weather-stripped at the factory, easy to install, easy to care for and operate. Most are made in box-type sections, with glazing done on the job. Some provide for double glazing.

Manufacturers offer a great range of opening sizes, installation hardware and special features. Even though these are fundamentally similar, their slight variations make it imperative to decide on brand and sizes to be used before construction is begun on outside walls, and to follow closely manufacturers' instructions as to installation.

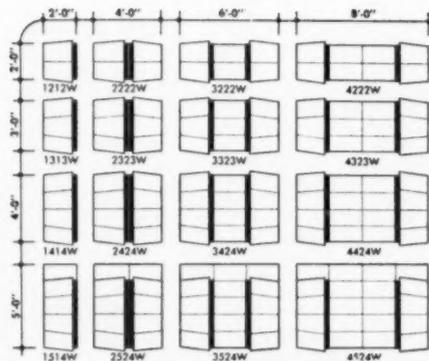
Wood Double-Hung

Modern methods which produce factory-assembled complete units have resulted in substantial savings in building costs as against the old-fashioned windows built on the site. Weather strip is placed in the assembled frame, and balances are hooked up ready to operate. Weights and pulleys are now used in only the "economy" types, and complete units are delivered to the building site ready for installation.

The National Woodwork Manufacturers Association has established standards and specifications for the trade, and opening sizes are set up to

(Continued on page 164)

A.W.M.A. WESTERN MODULAR



Aluminum Window Manufacturers Association Data

C-A3 types shown at left may have horizontal or vertical muntins if desired on 20" or 24" bar centers for width and 16" bar centers for height. Fixed lights may be had in place of sill vents

AETNA FRAMES

• ONE-PIECE WELDED ALL-STEEL CONSTRUCTION • STANDARDIZED FOR DEALER STOCKS • INSTALLED IN LESS TIME AND AT LOWER COST

STEEL:

18 gauge cold rolled steel.



FINISH:

One Coat baked-on primer on all sides.

ASSEMBLY:

All frames furnished in complete welded assembly with reinforcing plates behind each mitre joint—no additional labor required at job site. HINGE BUTTS WELDED ON AND STRIKE APPLIED AT FACTORY.

Removable spreaders are fastened at the lower ends of the jambs. These spreaders protect the frames during shipping and handling and facilitate proper alignment during erection. They are easily removed after the frames are set.

HARDWARE:

For 1 3/4" doors (FR-1), one pair 3 1/2" x 3 1/2" butt hinges and loose pins are furnished. The three-knuckle portion of the hinge is welded to the frame. For 1 3/4" doors (FR-2) one and one-half pair 4" x 4" butt hinges and loose pins.

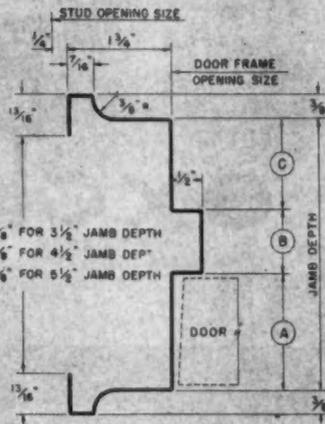
Combination Screen Door Frames (FR-C) have one and one-half pair 4" x 4" hinges for 1 3/4" door and one pair of 3" x 3" hinges for screen door. Loose hinge pins are included.

Frames for Double Acting doors are reinforced for pivot hardware. We do not supply this hardware.

A universal type brass strike, complete with steel dust box is attached to the frame. This strike is designed to fit most standardized locks and latches. Where a bit key lock is used requiring a two-hole strike, the Aetna universal strike is provided with a lower knockout plate that is easily removed. Patent Pending on strike plate and dust box assembly.

ANCHORS:

Four Anchor clips are welded to each jamb. T-anchors are furnished for installation in masonry walls. Each jamb section is provided with a floor knee for fastening to the floor.

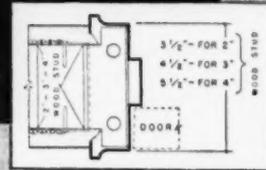


STANDARD DOOR FRAME OPENING SIZES

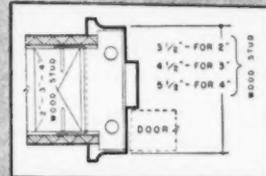
WIDTH	HEIGHT	HEIGHT	HEIGHT
1'- 2"	6'-6 5/16"	6'-8 5/16"	7'-0 5/16"
1'- 6"	"	"	"
1'- 8"	"	"	"
1'- 10"	"	"	"
2'- 0"	"	"	"
2'- 4"	"	"	"
2'- 6"	"	"	"
2'- 8"	"	"	"
2'- 10"	"	"	"
3'- 0"	"	"	"

Trimmed openings furnished up to 4'0" wide.

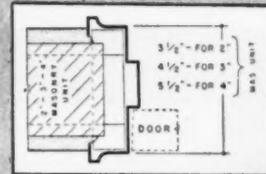
WOOD STUD	JAMB DEPTH	A	B	C
2"	3 1/2"	1 5/16"	1/2"	1 1/16"
2"	3 1/2"	1 1/2"	1/2"	1 1/2"
3"	4 1/2"	1 5/16"	1 1/16"	1 1/2"
4"	5 1/2"	1 5/16"	2 1/16"	1 1/2"



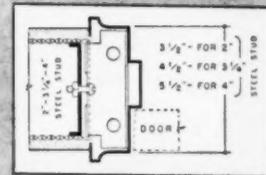
IN WOOD STUD PARTITIONS WITH PLASTER FINISH



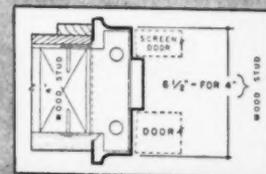
IN WOOD STUD PARTITIONS WITH DRY WALL FINISH



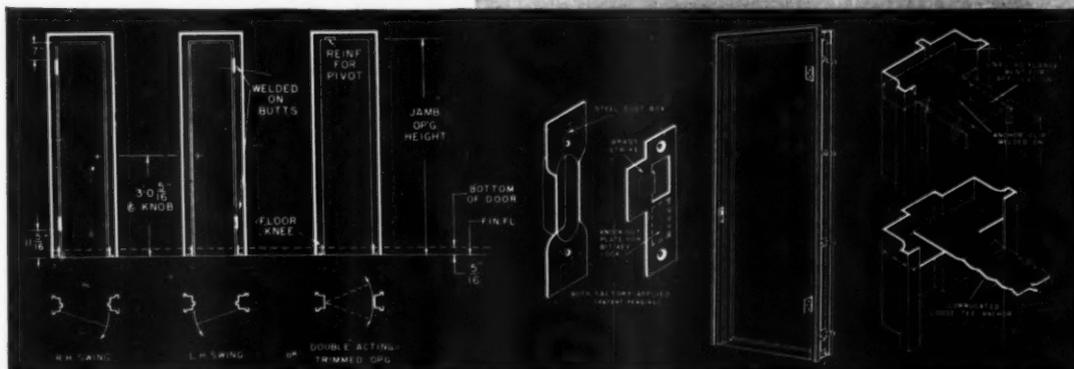
IN MASONRY PARTITIONS



IN STEEL STUD WALLS



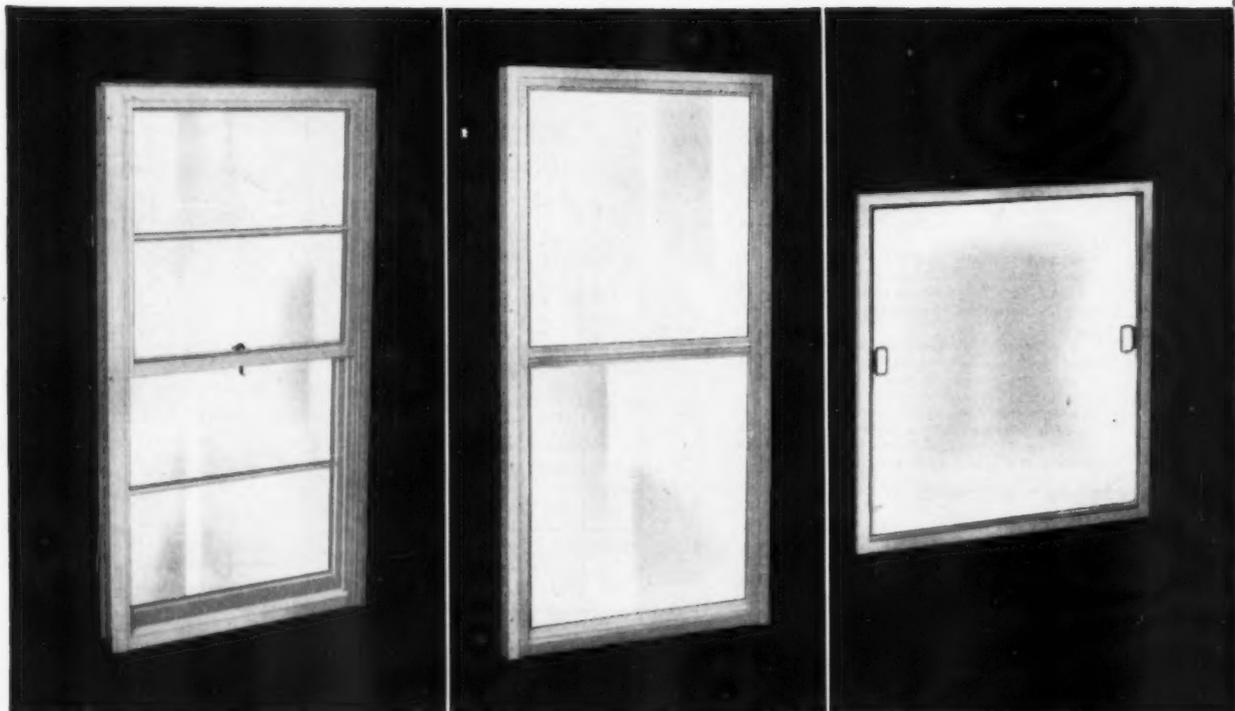
IN EXTERIOR WALLS



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To meet this more demanding market we at Ceco have developed a new product that says quality at a glance—it's the new Ceco-Sterling **3 in 1** Aluminum Window.

Here is something every homeowner will want on sight . . . a window unit that takes all the work out of summer screening and winter storm windowing . . . self-storing screens and storm windows do the trick . . . changing is a mere matter of raising and lowering from the inside . . . there are no ladders to climb.

Here's a window that's brilliantly handsome . . . will complement any architecture . . . will outlast any home . . . costs nothing to maintain. Advanced Engineering puts it ahead of the field.

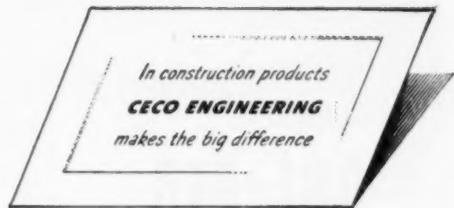
Sounds too good to be true, doesn't it? But you can count on it because the Ceco-Sterling **3 in 1** Aluminum Window is all we claim. We back it with a guarantee of satisfaction. 

CECO STEEL PRODUCTS CORPORATION

Offices, warehouses and fabricating plants in principal cities
General Offices: 5601 W. 26th St., Chicago 50, Illinois

Why Home Owners Will Prefer the Ceco **3 in 1** Window

1. The Ceco **3 in 1** Window is the strongest Prime Window with sash balances and stainless steel weather stripping plus combination screen and storm panels offered as a unit package.
2. Exclusive permanent weather seal, nothing make-shift, nothing to deteriorate, wear out or replace. No window can match it in preventing air and cold infiltration.
3. Self-storing storm window and screen changed as easy as raising an arm.
4. New Beauty . . . made of lustrous aluminum . . . modern design complements any architecture.
5. Lifetime . . . made of ageless aluminum. Prime Window is all welded construction.
6. Ease of operation. Prime Window raised or lowered with finger tip.

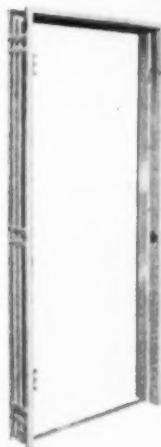


Why Builders Will Prefer the Ceco **3 in 1** Window

1. The Ceco **3 in 1** Window is the strongest Prime Window with sash balances and stainless steel weather stripping plus combination screen and storm panels offered as a unit package.
2. Easy to install . . . no fitting or trimming of the Prime Window.
3. Easy to anchor Prime Window. Better engineered Ceco anchoring hardware comes with the unit.
4. Built as a unit . . . sold as a unit with price including all hardware, sash balances, lock, pull down, screws, closures, channels and weather seal.
5. All welded frame and sash in the Prime Window.
6. One source of purchase for the **3 in 1** unit. Time and money saved in buying.
So be sure this new Ceco window creation is in the homes you build. You can be sure it will improve any home and cost will be competitive.

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ONE-DER

FRAMES FIT THEM ALL!



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Easy
Installation

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For Further Details see Sweet's File 15a/On and 16b/On

Order TODAY from your dealer, listed in Yellow Pages of Telephone Directory, or write—

ONE-DER FRAME
Corporation

P.O. Box 3068—Birmingham 6, Ala.

(Continued from page 160)
conform to modular principles. Weather stripping has advanced to the point where some manufacturers are using tension-type weather strip to hold the window in any position and eliminate the need for balances of any kind. This also allows for easy removal of the window for cleaning and painting without removing any interior frame stops.

Awning Types

The awning-type of window, wood or metal, is basically a casement window turned on its side with the hinge at the top. Wood awning windows usually have sash or vents hung from the top and hinged by brackets to the jamb. The bottom rail of one unit interlocks with the top rail of the one below. The sash are usually controlled by worm or gear mechanisms, and good ventilation is possible, as most units may be opened to 90 degrees. In many types, units may be left open without danger of rain driving in.

Some units have motor-driven operators. Most of them permit the bottom vent to be open a crack without the others being open at all, and allow the top unit to drop inside for easy cleaning of the remainder from inside the room. Both wood and metal are available in a complete range of sizes.

Metal Casements

The Aluminum Window Manufacturers Association and the Metal Window Institute have set up specifications for the trade pertaining to aluminum and steel windows, respectively. Steel windows are bonderized and painted with special primer, while aluminum windows are cleaned and coated with clear lacquer by the manufacturer and do not require painting.

Light in weight, metal casements are surprisingly strong, durable, and easy to work with. However, care should be taken in installation to avoid rough handling which might bend slender frames or sash out of shape. Following manufacturer's instructions for installation should result in snug-fitting windows with all screens and storm sash fitting properly and hardware functioning easily.

Horizontal Sliding Windows

The horizontal sliding window came into being when someone turned a double-hung window on its side. Since 1940, the spring-type weather stripping has made possible weather-tight operation. This type of window permits larger glass areas than most other types of movable window, and has increased in popularity because of that fact.

(Continued on page 168)

TO BUILD BETTER USE PETERSON ALUMINUM WINDOWS



8 BIG ADVANTAGES

1. ARCHITECTURAL APPEAL—wide sliding glass panels provides streamlined beauty giving new approach to building design.
2. CLEANLINESS—sliding sash removes into room for easy washing. Aluminum will not stain adjacent building surfaces.
3. SAFE—positive locking in closed and one, two and three inch open positions, ideal for first floor bedrooms.
4. STURDY—tubular construction gives extra strength and together with weatherstripping provides insulated draft free comfort.
5. ROLLS OPEN—effortless horizontal operation gliding on stainless steel rollers.
6. ADVANCED DESIGN—eliminates puffy, sash balances, operating cranks and projecting hinges.
7. NO PAINTING EXPENSE—aluminum harmonizes with all building materials, never rusts or rots and cannot swell, warp or stick.
8. FINISHED COMPLETE—designed to accommodate screens and double glazing panels (storm sash) as an integral part of the window, enhancing its streamlined beauty.

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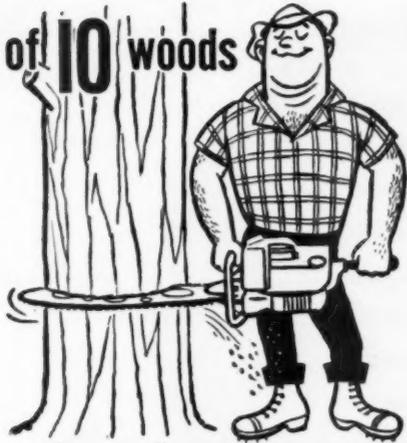
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one of **10** woods



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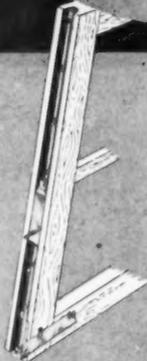
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HIDALIFT

the completely modern Sash Balance



BUILDER

Hidalift cuts installation time and costs because it's easier, faster to install and tension.



DEALER

Hidalift sells on sight. It's easy to handle. Builds up sales volume and goodwill.



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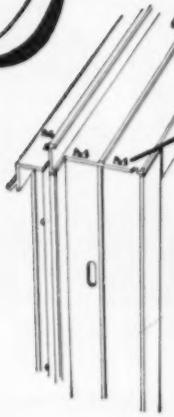
City _____ Zone _____ State _____



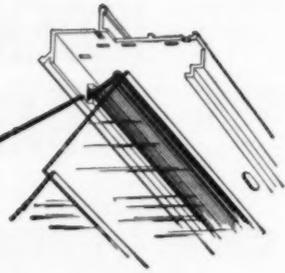
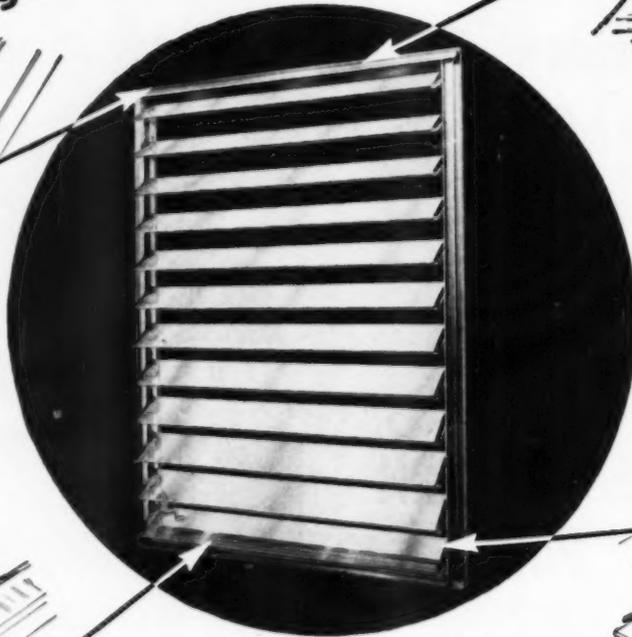
165

Curv-TITE

glass jalousie

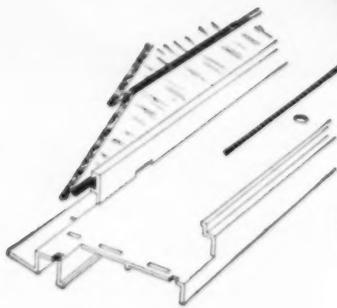
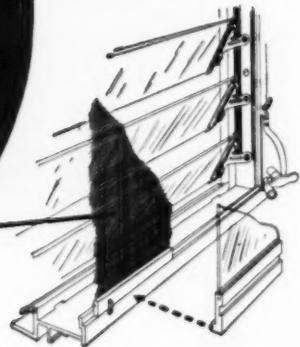


Sturdily riveted corners for interlocking strength.



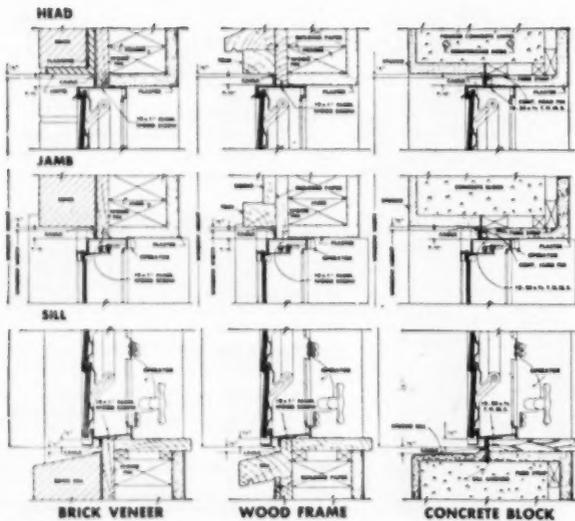
Head weatherstripping for positive seal.

Screen and storm sash are interchangeable and all insulated linkage is shown.



Sill weatherstripping for positive seal.

INSTALLATION DETAIL

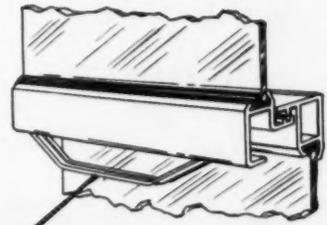


STANDARD SIZES C-T SERIES 400-J

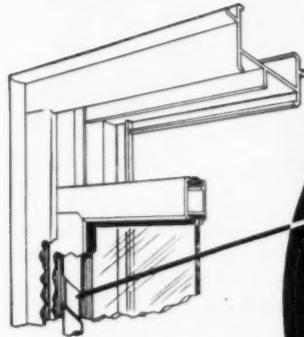
	1'-7 1/8"	3'-1"	4'-5 1/8"	5'-9 1/8"	7'-2 1/8"	7'-10 1/8"
2'-0"	C-12	C-22	C-32	C-42	C-32/2	C-42/2
3'-3 1/8"	C-13	C-23	C-33	C-43	C-33/2	C-43/2
4'-3 1/8"	C-14	C-24	C-34	C-44	C-34/2	C-44/2
5'-3"	C-15	C-25	C-35	C-45	C-35/2	C-45/2
6'-3"	C-16	C-26	C-36	C-46	C-36/2	C-46/2
7'-3 1/8"	C-17	C-27	C-37	C-47	C-37/2	C-47/2
8'-3 1/8"	C-18	C-28	C-38	C-48	C-38/2	C-48/2

Metalart

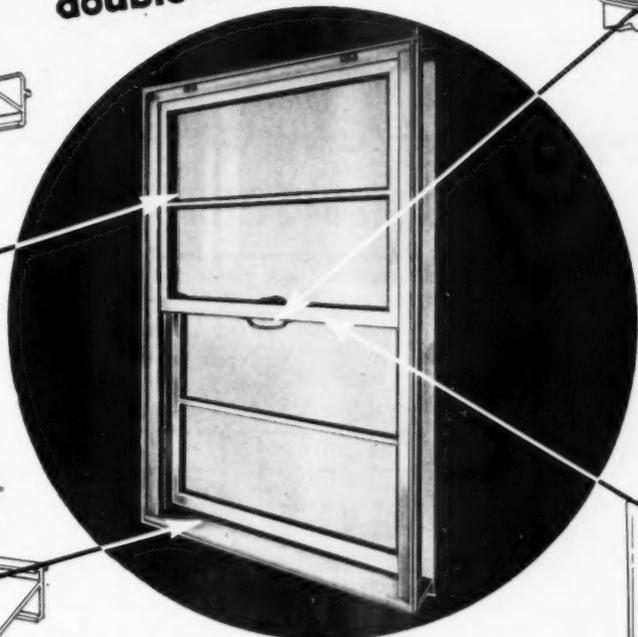
double hung windows



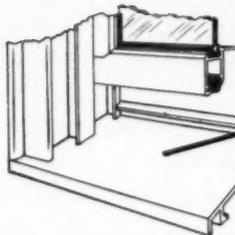
Meeting rail neoprene weatherstripping and sturdy upper sash lift handle.



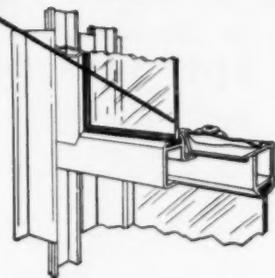
Adjustable spiral balances are concealed in the sash.



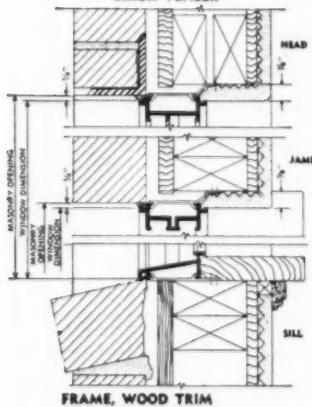
Neoprene glazing and stainless steel sweep lock and keeper. Stainless steel jamb weatherstripping prevents contact between aluminum surfaces.



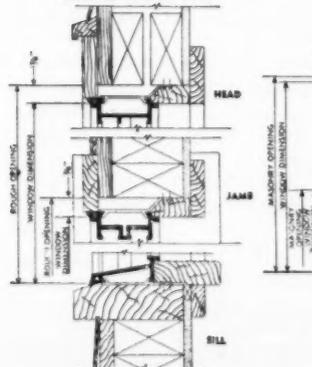
Pliable neoprene weatherstripping at head and sill and integral, full length lower sash lift.



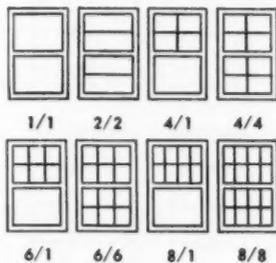
BRICK VENEER



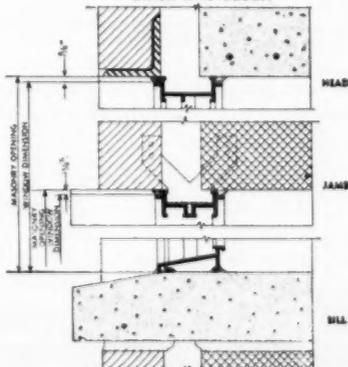
FRAME, WOOD TRIM



MUNTIN ARRANGEMENTS



BRICK AND BLOCK



INSTALLATION DETAIL

SIZE CHART

HEAVY EXTRUDED MODULAR SIZES

HEIGHT	1'8"	2'0"	2'4"	2'8"	3'0"	3'4"	3'8"	GLASS HEIGHT
3'1"								16"
3'9"								20"
4'1"								22"
4'5"								24"
5'1"								28"
5'9"								32"
Glass Width								16" 20" 24" 28" 32" 36" 40"

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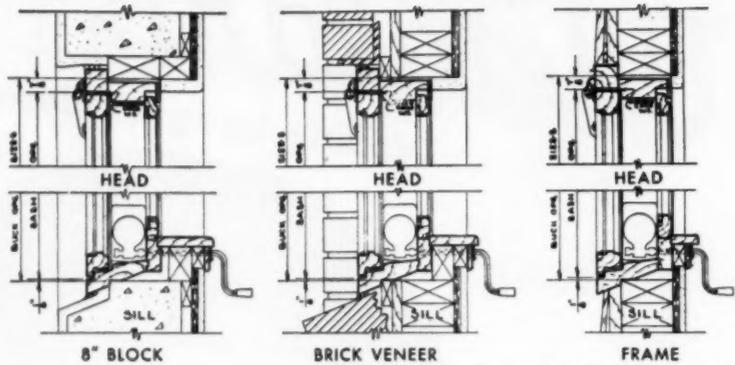
for quality
plus price appeal
AETNA SASH CORD

a reliable, dependable tough cord — in demand for many general uses. Write for FREE Samples and information or see your jobber.

Samson
CORDAGE WORKS
BOSTON 10, MASS.



structural details - wood awning windows



Courtesy Gate City Sash & Door Co.

Section drawings above show installation details for typical wood awning windows in concrete block, brick veneer, and frame construction. Basically a side-hung casement type, such windows fit into many modern types of construction

Wood Awning Windows Standard Styles and Sizes

	2'-1/2"	3'-1/2"	4'-1/2"	6'-1/2"	6'-4 3/8"
3'-2 3/8"					
	2-24-18	2-36-18	2-48-18	2-72-18	2-36-18 S.L.
4'-9"					
	3-24-18	3-36-18	3-48-18	3-72-18	3-36-18 S.L.
6'-3 3/8"					
	4-24-18	4-36-18	4-48-18	4-72-18	4-36-18 S.L.
7'-9 3/8"					
	5-24-18	5-36-18	5-48-18	5-72-18	5-36-18 S.L.

Awninglite Window Data

(Continued from page 164)

Walls of Glass

The modern trend is definitely toward the use of larger glass areas in home construction. Picture windows have grown to be whole walls of glass, and two of the nation's largest glass manufacturers are making available a double-pane unit which reduces heat loss or gain from windows and makes the glass wall truly practical.

Glass block is frequently used with picture windows, a common application being a plate glass or double-pane picture window flanked on each side with sections of glass block into which is built a ventilating louvre unit.

Plate glass is frequently used where problems of insulation and heat loss are not acute, but the double-pane unit is becoming ever more popular in

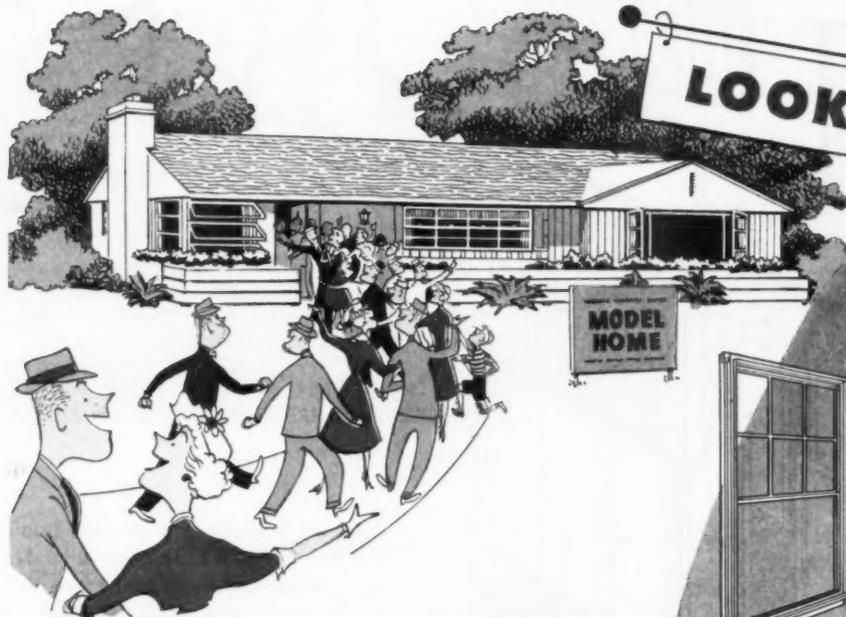
(Continued on page 177)



Quality Approved

ALUMINUM WINDOWS

invite your prospects to



Prospects come in off the street to get a closer look at your model houses when they see that you have installed ALUMINUM WINDOWS. If the rest of your house is as up-to-date and as good as your aluminum windows, your sales come fast and easy!

"Quality-Approved" Aluminum Windows are any home-buyer's assurance of trouble-free window service—with no painting, no rust, no rot for the life of the house. Maintenance becomes simply a matter of occasional washing. Windows always open and close easily.

"Quality-Approved" Aluminum Windows pay you extra profits because they're easier to handle and install—because they add customer appeal that helps you sell your houses faster.

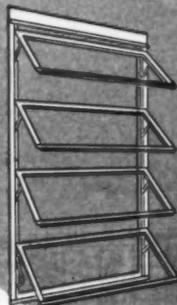
For detailed information, write any "Quality-Approved" Manufacturer, see Sweet's Builder's File (Section 4c/ALU) or write to Dept. AB-4.



DOUBLE-HUNG



CASEMENT



AWNING



PROJECTED

Aluminum Window Manufacturers Association

74 Unity Place, New York 17, N. Y.

YOUR HOMES WILL SELL FASTER with **AMWELD**[®] salesmen in every room

Look how the AMWELD line can fill your every interior door requirement

Steel Sliding Closet Doors

Steel Slide-away Pocket Door

Interior Steel Doors and Frames

FOR SALE SOLD

Your local AMWELD Dealer can supply all of your interior door needs — call him today or write to us for complete information.

Take an average 3 bedroom home like this — AMWELD interior doors throughout can help make the difference between a quick turnover, *at your price* — or a *FOR SALE* sign up for weeks. AMWELD modern, attractive design and all steel construction — eliminates warping, shrinking, cracking and maintenance — often means a *SOLD* sign in the front yard before the paint dries. In addition to making homes more salable, you, as a builder, can realize a healthier profit on every house built with AMWELD frames, flush doors and sliding closet units. Builders everywhere report AMWELD closet door units, doors and frames can be installed more quickly and at lower installed cost than hand-fitted types.

AMWELD[®] BUILDING PRODUCTS DIVISION

TAKE YOUR CHOICE of these AMWELD® Space Savers

AMWELD® Steel Sliding Closet Door Units

- Eliminate waste door swing area.
- Provide more useful storage.
- Make entire closet interior usable.
- Make wall and floor space adjacent to closets available for living area.
- Easy-to-install.

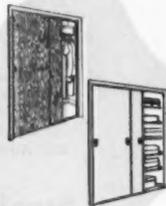
AMWELD® "K-D" Sliding Closet Doors *Birch Finish or grey prime coat*

Save from 6 to 9 square feet per closet in waste door swing space. Available factory painted with baked-on neutral grey enamel primer — ready for your choice of finish coat or can be furnished with new Birch Finish ready-to-install.

Made of 20 U. S. gauge cold rolled steel. They will not warp, shrink or crack. Ideal for closets, cupboards, as well as basement, attic and garage storage units.

AMWELD "Assembled" Sliding Closet Door Unit

One piece welded frame comes ready-to-install. Prime finish panels same as "K-D" unit. All hardware supplied. Can be supplied for plaster, wood stud, or masonry walls.



SIZES AVAILABLE "K-D" (BIRCH FINISH AND PRIME FINISH) and ASSEMBLED UNITS

Opening	No. Panels	Height
3'0"	2	6'9½"
4'0"	2	6'9½"
5'0"	2	6'9½"
6'0"	2	6'9½"

AMWELD SNAP-IN HARDWARE

"K-D" and Assembled Sliding Closet Door Units furnished with time saving easy to snap in hardware. No screws, nuts or bolts required. Saves time on installation — makes job simple and secure.

- All hardware simply snaps in place.
- Two deeply recessed non-tarnishing plastic door pulls snap in each panel.
- Lifetime rollers provide easy, silent operation.
- Self-adjusting spring-held guide keepers assure ease of operation — prevent sway and derailing.



And here is the Newest AMWELD® SPACE SAVER AMWELD® SLIDE-AWAY Pocket Door and Frame Unit

Eliminate door-swing problem areas with the AMWELD Slide-Away. Modern, attractive flush door when closed — glides into wall recess, out of sight — out of the way. All steel door construction — will not warp, crack, or shrink. Comes factory primed with grey baked-on enamel — ready for your choice of colors. Frame unit available separately if desired.

Easy-To-Install—Framing Unit is made of heavy gauge steel channel with wood core — nails to ordinary studding.

Brass Finger Pulls or Latch Sets—Finger pulls can be furnished for closets and ordinary doorways — latch sets available for bathrooms and bedrooms.

Two Sizes Available — The Slide-Away is furnished in two widths — 2'6" and 2'8" for (1¾" thick, 6'8" high) AMWELD Steel Flush Doors.



AMWELD Interior Steel Doors and Frames

Trim and neat in appearance, AMWELD interior flush doors go well with any decor. Installation is quick and easy — installed cost in most cases is considerably less than hand-fitted types. Frames are factory primed with grey baked-on enamel, ready for your choice of color. All steel construction eliminates cracking, warping and shrinking. Available in 1¾" and 1¾" doors and are furnished in all standard sizes and frames. Available for plaster, stud or masonry wall construction.



AMWELD® INTER-LOK "K-D" Steel Door Frames

Here is an interior door frame that one man can assemble in 11 minutes. Hammer is only tool needed — no screws or pins. Corners are mitered — does not require open corners to fasten assembly together.

Supplied in 4¼", 5¼", 6¼" jamb thickness for 1'6", 2'0", 2'4", 2'6", 2'8" and 3'0" door widths. Made of 18 U. S. gauge steel, frames are grey primed at factory.



THE AMERICAN WELDING & MANUFACTURING CO.

310 DIETZ ROAD

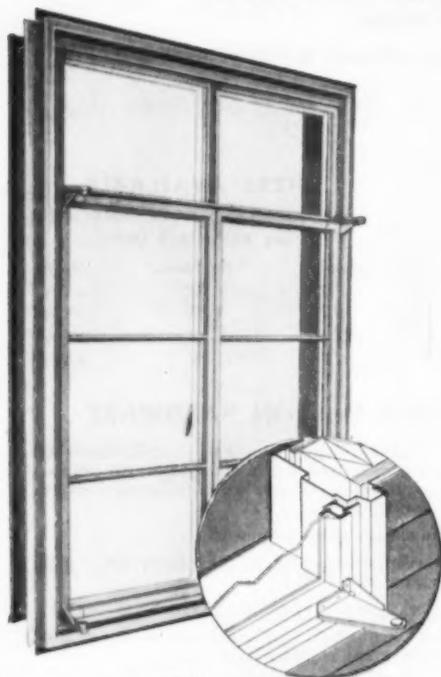
WARREN, OHIO

STEEL
Craft

REG. U.S. PAT. OFF.

A COMPLETE LINE OF QUALITY METAL

STEELCRAFT STEEL RESIDENCE CASEMENTS MADE OF HOT ROLLED SECTIONS . . .



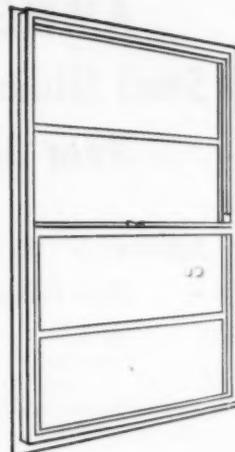
Steelcraft Steel Residence Casements are made of heavy hot-rolled solid sections of uniform thickness, with butt welded mitred corners. Extra long reinforced hinges provide ample clearance for safe and easy cleaning of the exterior of the glass from the inside. Sections are designed for maximum daylight. Heavy bronze finish roto or lever type hardware may be used for ease in operation of the ventilator. Screens and Steelcraft Aluminum Storm Sash are easily attached to the inside of the frame.

All standard Western and Western modular sizes also available.

Steelcraft

(Steel Inside-Outside Trim)

The installed cost of trim and casement window is considerably less than the multiple piece window frames and trim. It is a complete inside-outside window trim . . . no extras to buy . . . the window sill, the window stool, the inside moulding and the outside trim, the inside trim, the fins, the flashing—everything it takes to trim a window. It's all galvanized and bonderized with a baked-on coat of paint for long-lasting protection.

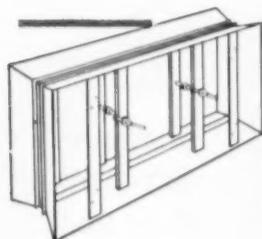


Steel Door Frames

Use this modern building product at a great reduction in cost. One-piece all welded construction . . . won't crack, shrink, swell or warp. Reinforced mitred corners won't open. Hinges spot welded to frame; brass strike plate loose hinge butts and pins furnished.

Knocked Down Door Frames

Knocked down door frames are designed for economical shipping, for maximum storage, for quick easy assembly and installation.

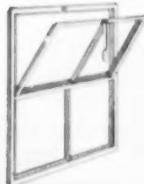


Steel Basement Sash Form

Easy to use. Saves time. Eliminates wood form carpentry, assures correct placement in wall and provides attractive bevel finished perimeter.

Steel Basement Sash

Steelcraft steel basement windows are made of hot-rolled sections which provide double weathering contact throughout. Armless ventilators assure trouble-free operation. Positive handle locks sash tight against frame.

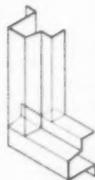
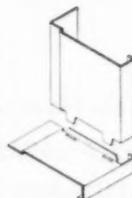


Steel Utility Window

For barns, basements, shops and garages. They have removable tilt-in type armless ventilators and provide continuous double weathering contact.

Interior Casing

Consisting of head, jamb, and sill members, this casing eliminates plaster returns, stools and trim. Shipped knocked down for economical stacking and storage. Available in all types and sizes for residence steel casements.

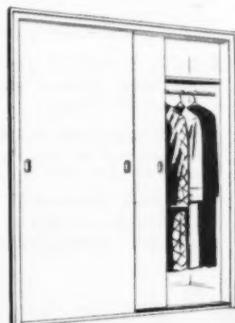


Exterior Surround

Designed with identical contours and ends accurately coped, this surround presents neat corners and joints in the assembly. It is nailed to the rough openings and the casement is attached with self-tapping screws.

Steel Lintel

Available in a wide range of stock sizes for any window or door opening. Continuous ribs strengthen the heavy gauge steel, and provide an excellent base for brick and mortar.



DETAILS OF
HOT-ROLLED
SECTIONS



1. Inner and
Outer Sections



2. Meeting Rail



3. Transom Bar

THE STEELCRAFT MANUFACTURING COMPANY, ROSSMOYNE,

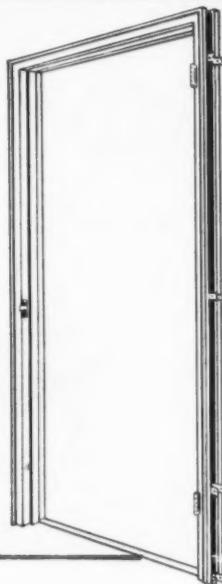
BUILDING PRODUCTS

ALL STEELCRAFT STEEL PRODUCTS ARE
BONDERIZED
 ACCORDING TO STEELCRAFT'S RIGID SPECIFICATIONS

Aluminum Double Hung Windows*

The trim appearance of Steelcraft aluminum double-hung windows blends with all types of architecture. They are quickly installed . . . easy to operate . . . will not rust, rot or decay and never need painting. Flexible stainless steel and rubber weather stripping make both heating and air conditioning more efficient. They are delivered complete, factory assembled, no extras to buy, no hardware to install . . . glazed or unglazed according to your specifications.

*Will be available shortly.



Spacemaker

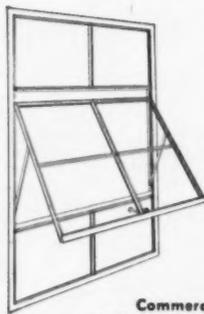
Steel Sliding Closet Doors

- Packaged ready to install
- Easy screwdriver installation
- Cut construction cost
- Give added closet space

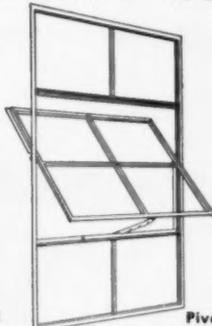
Steelcraft's new metal slide closet doors give extra storage space to any closet and give direct access too. No cutting . . . fitting . . . or unnecessary "extras." This door and frame is a complete packaged unit ready for installation!

Two types of side trim and complete steel casing available.

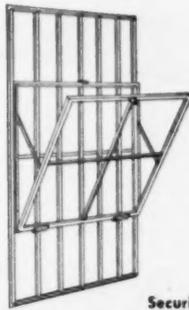
INDUSTRIAL WINDOWS



Commercial Projected Window



Pivoted Window



Security Window

- Hot rolled new billet steel
- Sturdy heavy duty construction
- Double contact weathering
- Easily installed

Made of hot rolled new billet steel, Steelcraft pivoted windows are engineered for permanent easy operation of the vented section. They cannot stick, warp or shrink. The outside sections are

angle shaped to provide firm anchorage in the masonry or mullion connection. Double Flat contact weathering is provided on all four sides of the ventilator.

DETAILS OF
HOT-ROLLED
SECTIONS

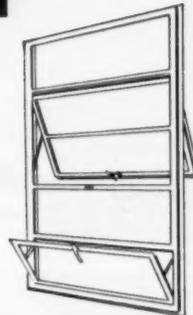


Steelcraft Intermediate Projected Steel Windows*

Steelcraft Intermediate Projected Steel Windows are designed for use in schools, hospitals, offices and other types of buildings where maximum light and draft-free ventilation are important factors. They are easily screened and will not interfere with blinds or shades.

Steelcraft Intermediate Projected Windows are made of high quality hot-rolled, new billet steel and are sturdily constructed. Double contact weathering is provided on all four sides of the ventilators.

*Will be available shortly.



Intermediate Projected Window

Steel Doors*

Steelcraft industrial steel doors will not warp, shrink, swell, chip or splinter. They are fire-resistant and will give years of trouble-free service. They come to the job with lockset and hinge cut-outs already fabricated to receive standard tubular lock-sets . . . no fitting, no drilling or mortising, simply insert hardware and hang door. Rights and lefts are interchangeable by reversing the doors. Steelcraft doors are finished with a special baked-on enamel providing an excellent base for field painting.

*Will be available shortly.



Address Dept. AB453



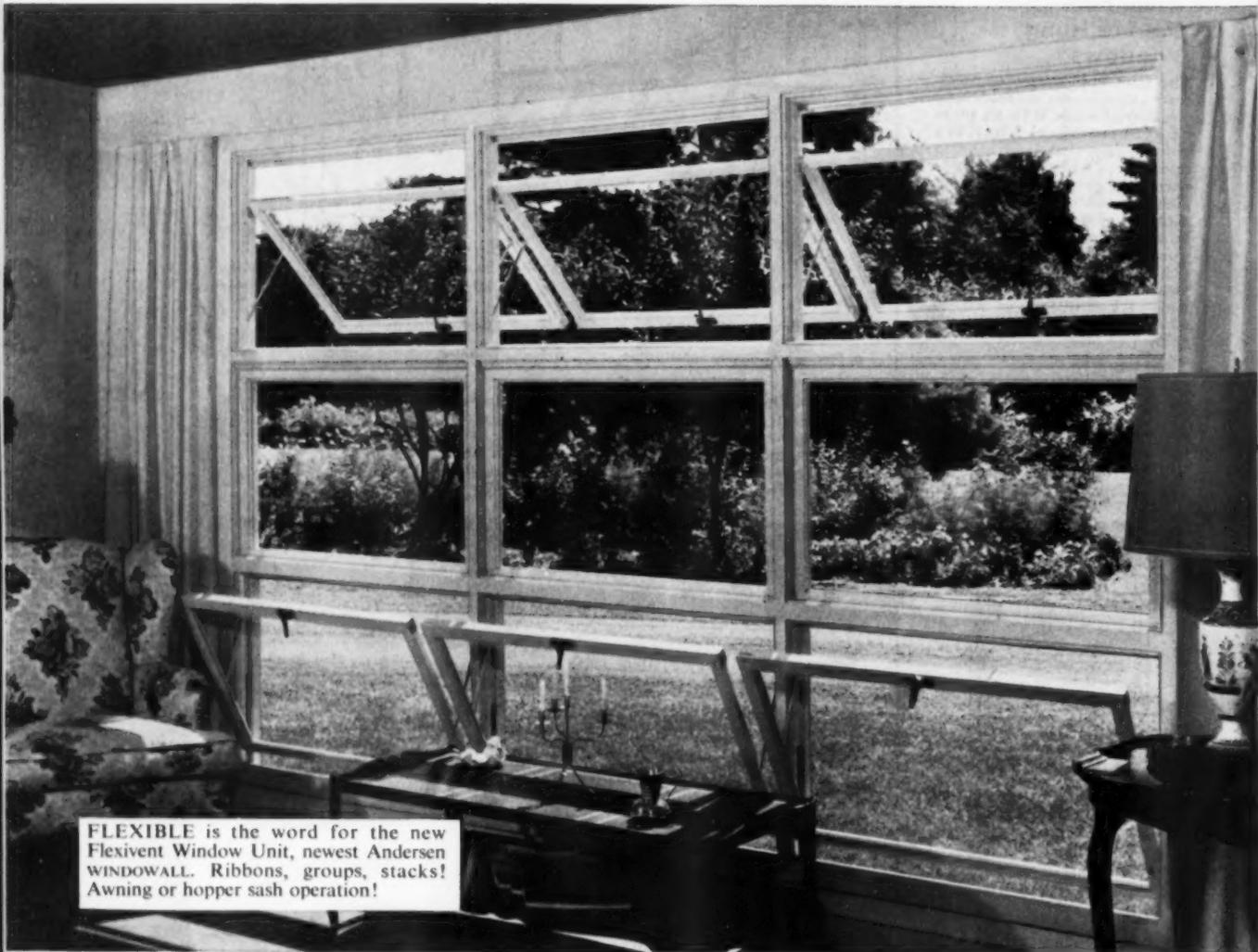
OHIO NEAR CINCINNATI

WRITE FOR COMPLETE INFORMATION ON STEELCRAFT METAL BUILDING PRODUCTS

THE STEELCRAFT MANUFACTURING COMPANY

Choice of 4 complete
wood window units...

ANDERSEN
Windowalls



FLEXIBLE is the word for the new Flexivent Window Unit, newest Andersen WINDOWALL. Ribbons, groups, stacks! Awning or hopper sash operation!

Versatile *FLEXIVENT* window—newest Andersen unit

JUST LOOK!

3

SASH OPERATIONS

FROM JUST

ONE UNIT!



1. Outswinging awning sash



2. Inswinging hopper sash



3. Outswinging casement sash

VERSATILE—You never saw a window with more uses than the new Andersen Flexivent. Hundreds of combinations possible from 9 sizes of units.

LOW IN COST—Simple hardware, simplicity of design and simple operation on friction hinges have kept the cost of Flexivent low. Fine for medium and low priced houses!

HIGHLY WEATHERTIGHT—Flexivent is completely weatherstripped. Outside double glazing panel optional.

many uses!

RIBBONS



STACKS



GROUPS



..or with other windows



ANDERSEN CASEMENT WINDOW UNITS—Many sizes, including picture window combinations. Two sash widths; 22½" (illustrated) and 18". One light, horizontal, or cut up glazing.

ANDERSEN Windowalls

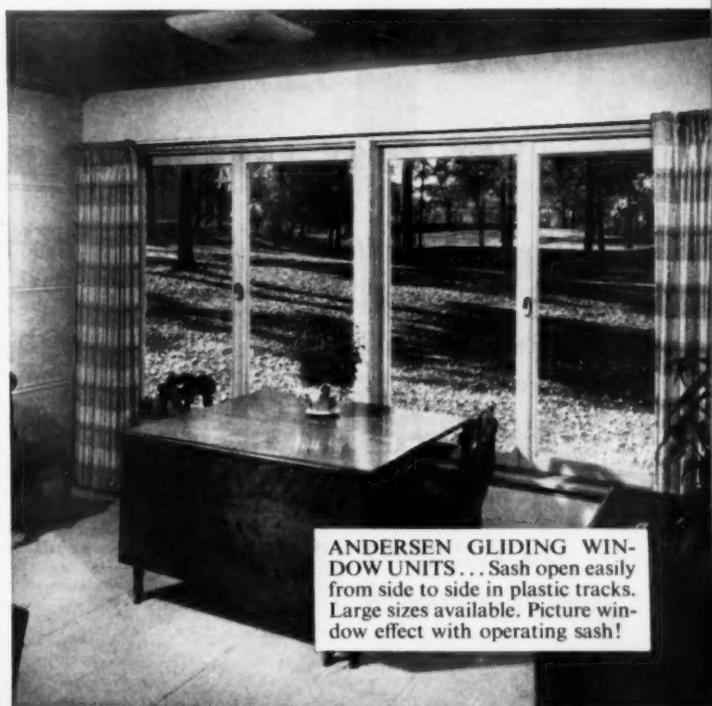
TRADEMARK OF ANDERSEN CORPORATION

Andersen WINDOWALLS are *complete* wood window units . . . carefully engineered and precisely manufactured from beautiful *insulating* wood. Sold only through millwork dealers. For specification data and details, see your millwork dealer, consult Sweet's Light Construction File, or write Andersen Corporation.

Andersen Corporation BAYPORT • MINNESOTA • WINDOW SPECIALISTS FOR 50 YEARS



ANDERSEN PRESSURE SEAL WINDOW UNITS have vertically sliding sash that lift right out for easy cleaning and painting.



ANDERSEN GLIDING WINDOW UNITS . . . Sash open easily from side to side in plastic tracks. Large sizes available. Picture window effect with operating sash!



MENDEL

Mahogany

FLUSH DOORS

ADD \$\$\$ TO HOUSE VALUES—

YET COST LESS THAN MANY DOMESTIC WOODS!

Genuine African Mahogany is recognized everywhere as the King of Woods—is far more *desirable* than ordinary woods.

Mengel Mahogany Flush Doors are built with faces of genuine African Mahogany, which *automatically* upgrades any building in which it is used.

Yet you can buy Mengel Flush Doors, or Standarder Flush Doors, with faces of genuine African Mahogany, for fewer dollars than you'd pay for comparable doors of almost any domestic wood!

The Mengel Company operates its own logging concession and mill in the best Mahogany section of Africa, and imports this King of Woods in tremendous volume. *You get the savings!*

Equally important, Mengel and Standarder Flush Doors are built *better*, to give *better service*. Compare specifications, either in Sweet's or at your dealer's. You'll be glad you investigated!

Door Department
THE MENDEL COMPANY
Louisville, Kentucky



**AN ALL NEW DESIGN
THAT TRANSCENDS
CENTURIES OF SAW
AND HAMMER THINKING**

Kewanee steel door frames

Patent Pending



THE FIRST ADVANCED STEP IN DOOR FRAMING

MODERN APPEARANCE . . .

A truly beautiful door frame; gives rooms a look of spaciousness. No dust-catching projections. Slender, graceful, tight-fitting lines.

LOWER FIRST COST . . .

The most economical door frame on the market.

LOWER INSTALLED COST . . .

Can be installed in a fraction of the time required for ordinary jamb and trim. Installation is simple, requiring about 1/2 the time. No mortising of jambs for hinges and strike . . . no trim to be applied later . . . no filling of nail holes . . . no prime painting.

SHIPPED KNOCKED DOWN . . .

Compactly packaged in individual shipping cartons, Kewanee door frames are easy to handle and store, and they arrive on the job in perfect condition.

Kewanee has found a way to beautifully finish door openings, throwing into discard long hours of cutting and fitting, and high-cost superfluous material. The Kewanee steel door frame, consisting of three pieces quickly installed with only two tight-fitting joints, provides a perfect meeting of plaster or dry-wall with the frame.

CONSTRUCTION FEATURES . . .

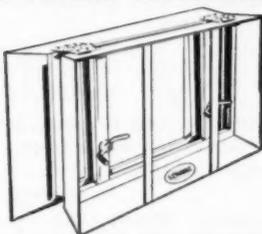
Nail holes are provided every 7" along flanges of frame, assuring rigid attachment to sub-frame, preventing vibration and eliminating metallic sound. Jambs punched and recessed for standard butt hinges.

MADE IN TWO TYPES . . .

Plaster type has recessed edge which serves as plaster ground. Made of galvanized steel, especially treated for perfect paint adhesion. Drywall type has recessed edge to receive wall-board. Resulting joint requires no taping. Made of cold-rolled steel, coated with aluminum primer.

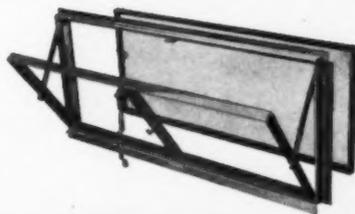
Try Kewanee Door Frames in Your Next Project

OTHER KEWANEE BUILDING PRODUCTS



STEEL WINDOW BUCK . . .

The very best and cheapest method of installing Kewanee steel basement windows in poured concrete foundations. Eliminates labor and material for making wood forms, strips cleanly, and leaves the window frame securely imbedded in concrete. If you pour your foundations, the Kewanee Window Buck is a MUST.



STANDARD BASEMENT WINDOW . . .

Nation's biggest selling steel basement window. Tight-fitting with broad sill and wide fins. Long locking handle gives jam-tight closure. Provided with arms for safe operation. Supplied for putty or puttyless glazing. Kewanee screens and storm sash snap on in an instant without use of clips or screws.

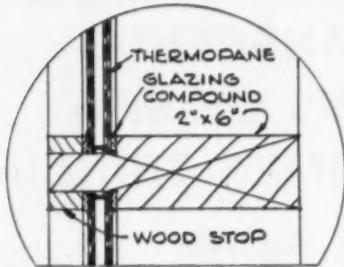
**An Economical,
Beautiful
Door Frame**

Write for literature.

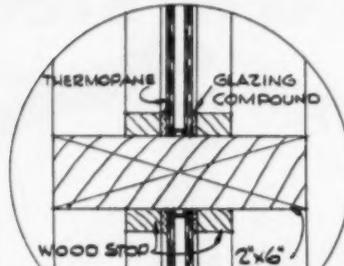
**KEWANEE
MFG. CO.**

4453 Burlington Ave.,
Kewanee, Illinois

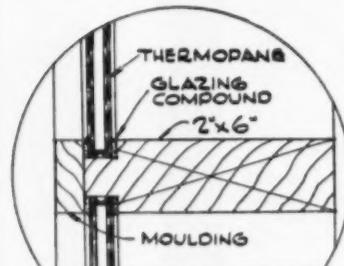
structural details — walls of glass ...



No. 1—Rabbeted 2 x 6, with stops.



No. 2—Non-rabbeted 2 x 6, with Thermopane centered, using stops inside and out.

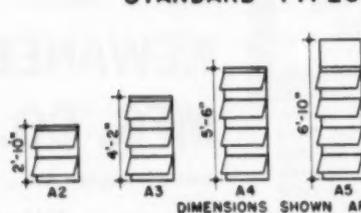


No. 3—Rabbeted 2 x 6, with single stop.

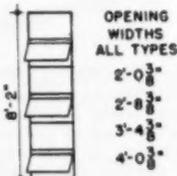
Libby-Owens-Ford Data
Three suggested methods for framing double-glazed windows. Dimensions of openings should be 1/2 inch larger than unit being installed. Ample glazing compound must cushion glass unit, with setting blocks used for any double-glass units whose width and height combined total 80 inches or more

(Continued from page 168)
the "window wall" type of construction. This double pane typically consists of two pieces of good quality plate glass mounted in rubber with an air space of 1/4 inch or so between. This provides insulation and reduces the condensation which usually occurs on glass in cold climates. Triple glass units are also available.

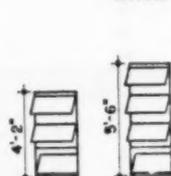
STANDARD TYPES



DIMENSIONS SHOWN ARE

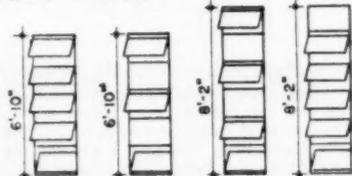


OPENING WIDTHS ALL TYPES



ALL UNITS SHOWN AS VIEWED FROM OUTSIDE.

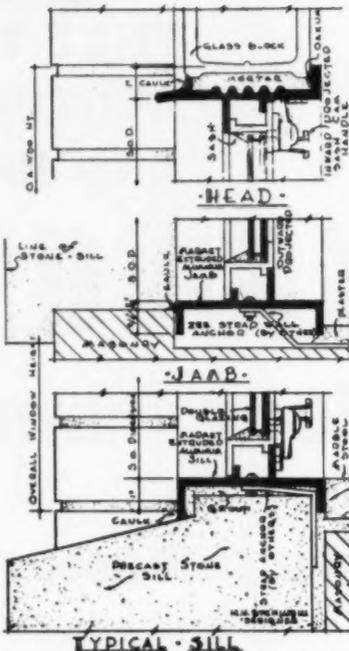
SILL VENT TYPES



VIEWED FROM OUTSIDE.

Courtesy Truseco Steel Corporation

AMERICAN BUILDER



TYPICAL SILL

Marmet Corporation Data

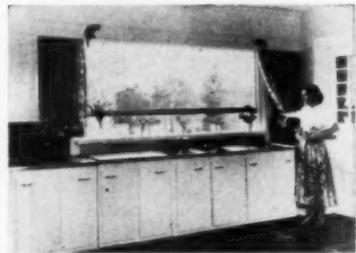
Detail plate above shows installation detail for double-glazed window unit installed in glass block panel. Ventilator unit is extruded aluminum, outward-projecting type

Special Types

There are many and varied special types of windows available both as standard units and as custom-made installations. Among them are the electrically-operated picture windows which are hung from a metal screen which rolls up at the top. As the screen unrolls, the window drops down into a slot and the screen covers the opening. These motor-driven units come complete in a package, ready for installation.

Another special type is a modification of the simple utility window, and is a bottom-hinged panel opening inward with screening across the opening. The entire unit is in a metal frame ready for installation in a glass block wall. Modular units are available.

Louved window units for use with picture windows can be obtained in



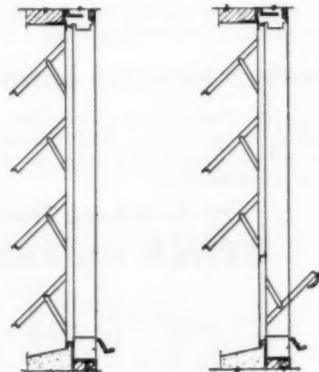
Courtesy Vita Automatic Windows, Inc.

Electrically-operated window is lowered into frame below window opening, raised by power driven unit. Screen is attached at top of window sash and follows window as it descends to keep opening covered and insects out

wood or metal. These are strictly ventilating devices, can be closed and made weather-tight. Other types of jalousie windows, with horizontal strips of glass, are rated as weather-tight and provide controlled ventilation as well. Glass jalousies are frequently installed in door panels.

Another manufacturer produces a louvre-type shade screening of metal with the louvres set close enough to keep out pests and insects but far enough apart to provide ventilation and shade. This also affords privacy, as you can see out but people on the outside cannot see in.

Tension screens are another recent development which housewives have found convenient, especially when it comes to cleaning windows. Screens snap into place from the inside, roll up for storage and are easily manipulated.



Two basic types of louvres, with project-out and project-in bottom light

they all **AGREE!**

THERE ARE OUTSTANDING
ADVANTAGES IN USING
MONARCH
IN-A-SLIDE
BASEMENT WINDOWS
for Better Home Building



DEALER

All-Steel In-A-Slides are stronger and of better design. More profitable, too, because of increasing demands by better home builders everywhere.



BUILDER

In-A-Slides are more practical, easier to install and a better all-around basement window for the home owner.



HOME OWNER

In-A-Slides' tilt-back sash are quickly removable and interchangeable. Make for easier cleaning and assure better ventilation. Their snug fit makes them all-weather tight.



SCREENS AND STORM SASH TO MATCH
Sold Through Dealers Only

When you think of Basement Windows, think of
NEW MONARCH MACHINE & STAMPING COMPANY
406 S. W. NINTH STREET DES MOINES 9, IOWA

MASTER NO-DRAFT SASH BALANCE

the
ORIGINAL

Sash Balance and
Weatherstrip
Combination

has
no equal
in

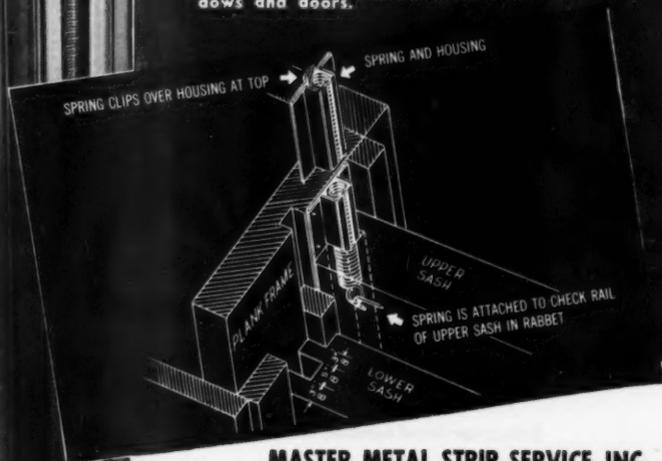
- simplicity of installation.
- quality of materials or workmanship.
- economy of time and labor in pre-fitting double hung windows with sash balances and weatherstrip in a single unit.

◆ The Master No-Draft Spring sash balance and metal weatherstrip combination is the ideal unit for pre-fit window assembly. It is simple, requiring only two sash rabbets. It is satisfactory in use, and proved by thousands of installations from remodel jobs to huge government housing projects. It is the original patented quality unit manufactured by the leader in the development and sale of this type of equipment.

Every quality product has its imitation. The difference between the two may not be apparent but it is always there . . . either in material, in workmanship, or in design. When you install an assembly which must maintain your product's reputation be sure that it will do so. Hundreds of mills are now supplying thousands upon thousands of sash pre-assembled with Master No-Draft Sash Balances.

Master No-Draft sash balances are installed from the far northern island of Attu in the Aleutians to the tip of South Africa in Johannesburg.

- Write today for complete details. Give your windows this sales feature. We also manufacture the world's finest weatherstrip for windows and doors.



MASTER METAL STRIP SERVICE, INC.
1720 No. Kilbourn Ave. • Chicago 39, Illinois

WHY DOES the best cost less?



R·O·Ws outsell other windows by 2 to 1. Production economies have made it possible to sell this premium quality window (with the extra-value removable feature) at a lower price than ordinary quality windows.

See your local lumber dealer or write

R·O·W SALES COMPANY 1328 ••66 ACADEMY AVENUE • FERDALE 20, MICHIGAN



Split-level homes are gaining popularity in Eastern States. Ted Engleman, of Adelman Lumber Co., reports that many builders in the Pittsburgh area are concentrating entirely on this type of residential construction.

It is significant that tri-levels are now being built by speculative operators. Until recently, only a few custom homes were designed to capture the best features of both the one-story and two-story houses. Public enthusiasm has been generated—first of all—by the pleasing variety of exterior lines. The tri-level home can be designed to hug the ground with the attractive primary lines of a long, low, one-story structure. Those who object to the extreme contemporary “flat-top” single-level monotony find variety in the half-story difference between sections of the roof.

Architects are encouraging this trend toward increasing the amount of usable living space within the exterior limitations. Much of the privacy of a good two-story structure can be achieved in the tri-level and many construction economies (heating, plumbing, wiring, roofing, etc.) are possible. The split-level home offers a good compromise between the economy of a two-story residence and the charm of ranch-types.

Paul Hodges and Ralph Lineberger of Royal Oak Wholesale Company, Royal Oak, Michigan, find that their customers (Michigan lumber dealers) are leaning more and more toward the handling of brand-name products *only*.

Hodges feels that home buyers are now *demanding* the products with which they are familiar. In turn, builders are willing to pay a fair premium for high-quality, nationally known, building materials. Dealers don't like to inventory products which don't sell. They find that “off-brands” are not a bargain at *any* price.

This attitude of lumber dealers fits in with the general trend toward more aggressive dealer merchandising. Building material dealers find that local merchandising is most effective if it ties in with national sales promotion and advertising programs of the product manufacturers.

(Advertisement)

AMERICAN BUILDER

Studies are now being conducted in ten R·O·W manufacturing plants to determine the best method of treating wood against decay and simultaneously reducing swelling and shrinking to a minimum.

Wood treating has been general practice among R·O·W manufacturers for some time but there have been differences of opinion about the most effective solutions and the value of the vacuum process as opposed to the dip-method. Deeper penetration and greater production speeds are claimed by those favoring vacuum process.

In many areas, home buyers have been educated to expect homes to "come equipped." They have seen so many new houses with dishwashers, garbage disposers and other appliances that builders are having trouble selling new houses without them. In Los Angeles, according to T. M. Cobb Company, wholesale building material suppliers, four out of five of the 5000 new homes completed each month are equipped with a garbage disposer.



The R·O·W DISTRIBUTORS plant at Rocky Mount, Virginia is owned and operated by D. C. Vaughn. This plant long has been called "the largest sash and frame operation in the world." It is generally conceded that this plant, alone, produces more wood windows than the total sold under any other name. It is one of the eleven primary R·O·W plants established at strategic shipping locations throughout the country.

In addition, there are fifteen R·O·W assembly plants and fifty national warehouses to further reduce shipping costs and improve delivery service. Fifty two distributors and over 400 salesmen serve a total of nearly 11,000 authorized dealers. Arthur E. Blow, who has been President of R·O·W Sales Company since its start in 1939, is confident that the national preference for R·O·Ws will continue to increase. This, in spite of increased direct competition.

"We not only make a better quality window," Mr. Blow says, "but the plus-value removable feature doesn't bring our price above other good wood windows. The additional fabrication cost is offset by the savings gained from our method of distribution.

(Advertisement)

APRIL 1953

SAVE TIME - avoid annoyance!



Buyers of modern homes are entitled to the convenience and beauty of removable wood windows. No other window can duplicate the weather-snug construction of R·O·Ws. Over 8,000,000 R·O·Ws are now in daily use.

See your local lumber dealer or write

R·O·W SALES COMPANY 1328 • 66 ACADEMY AVENUE • FERDALE 20, MICHIGAN



FLIP...and it's OPEN!

ZIP...and it's CLOSED!

**Pre-packaged, Ready-to-Install
NOVOPLY* SLIDING DOOR UNITS
assure permanently trouble-free service!**

Novoply Sliding Doors are s-m-o-o-t-h, e-a-s-y *gliding* doors! An adult can push 'em back and forth with a finger...and even a little child can always work them without any trouble at all!

These *precision-built* units are very simple to install... easy to adjust. Made of the flattest paneling ever produced - beautiful 3/4" thick Novoply - they are *guaranteed* not to warp more than 1/8", if properly installed.

They come pre-packaged, with pre-cut jambs and header as well as all necessary hardware, including ball-bearing top guide rollers and overhead track.

Ideal for closets and non-loading bearing partitions between rooms. Novoply Sliding Doors are wanted for new and remodeled homes... office buildings... apartment houses... hospitals, schools, motels and trailers. A *tremendously* profitable market you *can't* afford to miss!

So see these Novoply Sliding Door Units right away. Our warehouses have them in stock and will give you complete details. Or, use coupon below.

*U. S. Reg., Patented; other patents pending



UNITED STATES PLYWOOD CORPORATION

World's Largest Plywood Organization
55 West 44th Street, New York 36, N. Y.

AB-1-53

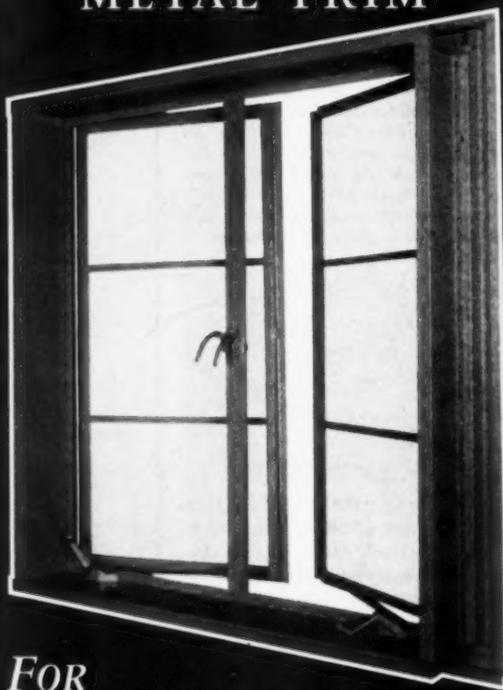
Please send me further information, dimensions, etc., on Novoply Sliding Door Units.

Name _____

Address _____

City _____ Zone _____ State _____

HOPE'S NEW COMBINATION INSIDE-OUTSIDE METAL TRIM



FOR HOPE'S STEEL RESIDENCE CASEMENT WINDOWS

Hope's new Inside-Outside trim combination saves you money, time and effort installing Hope's Steel Windows. Rough openings easily prepared; no sheathing to cut back or notch; you install trim without need for any finished carpentry whatever, either inside or out.

This solid steel trim construction makes window frames that never warp, shrink or swell and are fire, insect and vermin proof, adding extra value to the home... with lower costs to the builder.

Hope's new Metal Trim combinations assemble completely in a few minutes either at the warehouse or on the job. They accommodate all standard sizes of Hope's Steel Windows. For complete information write for Brochure No. 132.

HOPE'S WINDOWS, Inc. Jamestown, N. Y.

THE FINEST BUILDINGS IN THE WORLD ARE
FITTED WITH HOPE'S WINDOWS



PUT THE
Etling
WINDOW
TO WORK
FOR YOU

SWINGS IN
SLIDES UP AND DOWN

SIZES

Glass Size	Rough Stud Opening For Single Unit	
20 x 16	2'5 1/2" x 3'8 3/8"	
20	4'4 3/8"	
22	4'8 3/8"	
24	5'0 3/8"	
28	5'8 3/8"	
24 x 16	2'9 1/2" x 3'8 3/8"	
20	4'4 3/8"	
22	4'8 3/8"	
24	5'0 3/8"	
28	5'8 3/8"	
28 x 16	3'1 1/2" x 3'8 3/8"	
20	4'4 3/8"	
22	4'8 3/8"	
24	5'0 3/8"	
28	5'8 3/8"	
32 x 16	3'5 1/2" x 3'8 3/8"	
20	4'4 3/8"	
22	4'8 3/8"	
24	5'0 3/8"	
28	5'8 3/8"	
36 x 16	3'9 1/2" x 3'8 3/8"	
20	4'4 3/8"	
22	4'8 3/8"	
24	5'0 3/8"	
28	5'8 3/8"	
Add 17 7/8" to total glass width for twin units, 26 1/4" for triple unit. Height same as single units.		

BOOST SALES

Capitalize on Etling Window sales appeal. Sell homes faster, at greater profit.

CUT COSTS

Easy to install. Just place it, square it, nail it.

COMPLETE UNIT

Factory primed and glazed. Sash, Caldwell balances installed, tested. Adjustable frame. Carton-packed.

PICTURE WINDOWS

In-swinging side sash. Stationary center section glazed with Twindow, Thermopane, or 1/4-inch plate glass.

10 STYLES 35 SIZES

WRITE TODAY: Please send catalog, specifications.

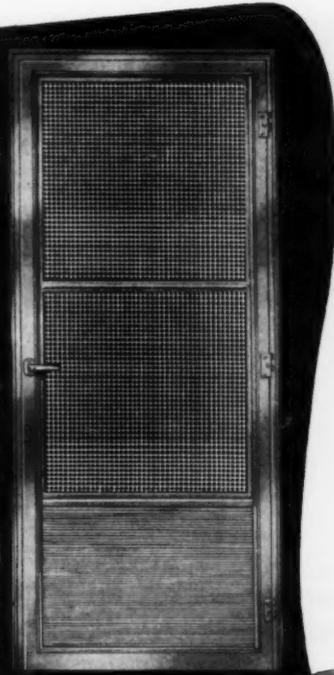
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Address _____

City—State _____

ETLING WINDOW
DEPT. AB-534 BARBERTON, O.

make
the
homes
you
build
**FULLY
MODERN**
with
low-cost



Alumatic® ROYAL

ALUMINUM COMBINATION STORM-SCREEN DOORS

Guaranteed by Good Housekeeping

Why put old-fashioned storm and screen doors on the new homes you build? Make them more attractive, more practical, more "sell-able" with Alumatic ROYALS!

ROYALS add charm and extra value to every style of home and your buyers will go for their practicality! ROYALS take all kinds of abuse; never need painting; assure savings on upkeep and repairs for years to come.

Your local building supply dealer has the new Alumatic ROYAL — see for yourself how much more beauty and value the ROYAL can add to your homes. Special low contractor prices — delivered complete with all hardware, closer, and aluminum jamb — ready to install!

Alumatic CORPORATION OF AMERICA
EXECUTIVE OFFICES: Milwaukee 14, Wisconsin

PLANTS:
Milwaukee 14, Wisconsin;
Paterson 5, New Jersey

IN CANADA:
Aluminum Bldg. Prod. Co., Ltd.
Windsor, Ontario

Manufacturers of famous ALUMATIC and ARALUM aluminum combination storm-screen windows, screen doors, screens and porch enclosures.

ALUMATIC CORPORATION OF AMERICA
2081 S. 56th St., Milwaukee 14, Wis.

Send me more information on Alumatic aluminum products for builders. T44E

Name _____

Firm _____

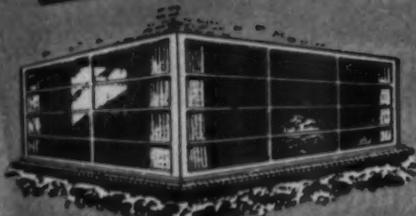
Address _____

City _____ State _____

ALWINTITE

ALUMINUM WINDOWS

make houses EASIER TO SELL!



DOUBLE-HUNG WINDOWS



PICTURE WINDOWS



SLIDING WINDOWS



PICTURE SLIDE WINDOWS



VIEWALL WINDOWS



Building a few houses or a large development, you'll find ALWINTITE aluminum windows offer real "sales appeal." ALWINTITE offers a choice of window styles to satisfy any house design. All are finest quality. All are easily installed.

DOUBLE-HUNG WINDOWS

Available in 4 basic types, in 35 standard stock sizes. Completely assembled with built-in weatherstripping. Also available with Fin-Trim. Corner, bay and in-line mullions. Screens and storm sash to fit.

PICTURE WINDOWS

In 21 standard sizes. Can be used alone or with double-hung windows for ventilation. Will take $\frac{1}{4}$ " plate glass or 1" double glazing (Thermopane or Twindow).

SLIDING WINDOWS

In 12 modular sizes and 3 standard sizes, with or without Fin-Trim. Use independently or in window panel systems. Can be mullioned horizontally. Screens and storm sash available.

PICTURE-SLIDE WINDOWS

New picture window flanked by sliding vents at each side. Available in 3 standard sizes with integral Fin-Trim. Ideal for living rooms, dining rooms, kitchens and bedrooms.

VIEWALL WINDOWS

Large floor-to-ceiling (6' $4\frac{3}{4}$ " high) picture window unit in 3, 6 or 9 light sections with sliding windows and fixed lights. Will take stock size Thermopane.

COMBINATION STORM WINDOWS and DOORS

In addition to its line of prime window products, ALWINTITE also manufactures a line of "Triple Channel" combination windows and a superior quality combination storm door. Write for complete details.

The complete line of ALWINTITE window products are stocked and warehoused by distributors from coast to coast. For detailed installation drawings, a copy of our complete catalog and prices, write to Dept. AB-4.

ALWINTITE DIVISION
GENERAL BRONZE CORPORATION

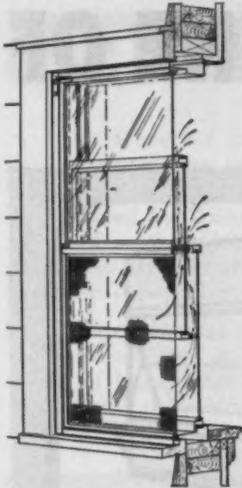
Stewart Avenue, Garden City, N. Y.



combination screens and sash units

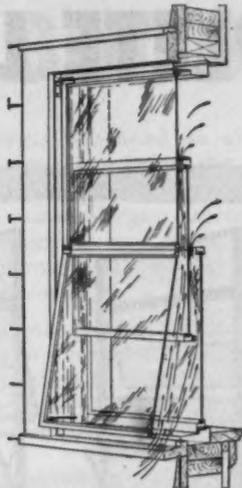
FOR SUMMER

During rainy weather the top sash may be lowered to allow ventilation. Air will enter through the screen and flow up around the meeting rail and top section of the upper sash.



FOR WINTER

Ventilation can be controlled by opening the bottom unit of the storm sash and lowering the top sash. Air will flow up around the meeting rail and top section of the upper sash.



Truscon Steel Data

Typical combination steel sash with screen and storm sash provide year 'round comfort. Various combinations of window adjustment may be made to provide storm protection and adequate ventilation at all times

(Continued from page 183)

Some manufacturers are producing what amounts to triple-hung units, which have a standard double-hung window plus a double-hung storm sash plus a one-half screen unit—all built into the same prefabricated frame, complete with weather stripping and balances, or pressure weather stripping for easy removal and cleaning of the sections. Ready for installation at time of construction, these units simplify matters a great deal for the builder.

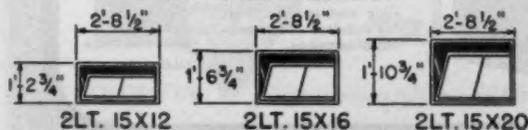
Storm sash for casement and the awning-type windows, as well as screens, are devised for handling and installation on the inside of the window. Rubber or other weather seal is usually provided around the edges, and storm sash frequently comes with built-in ventilator lights so that winter ventilation may be controlled as desired.

Basement and Utility Windows

Wood or metal basement and utility window units, set up and ready to install, come with or without storm sash and screen, and are normally provided with frames, hardware and accessories in one package from the manufacturer. Frames are grooved to hold mortar, and wood units are chemically treated to resist rot and insects. Screen and storm sash are fitted to fasten from the inside.

One type of basement window is fitted with reversible sash which may be hung to open either at top or bottom. Removable sash may be reversed in a matter of seconds.

HOPPER VENT WINDOWS



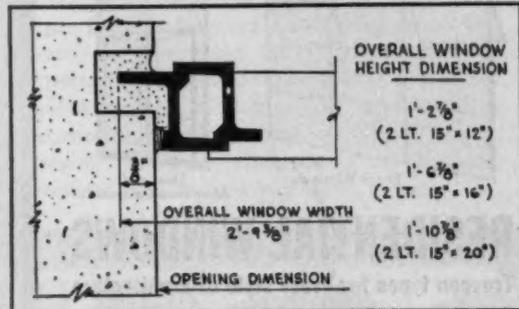
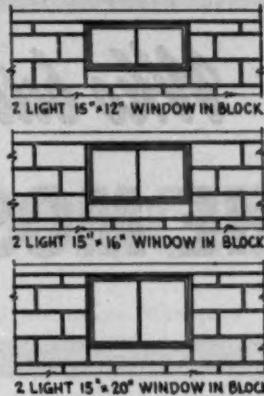
Types and sizes approved by Metal Window Institute.

Courtesy Cece Steel Products Corp.

basement and utility windows

INSTALLING BASEMENT WINDOWS

Basement Windows are especially designed to fit openings in walls of concrete blocks, as shown in sketches at right. Their convenient sizes also permit easy installation in all other types of construction. Detail below shows method of installation in concrete block.

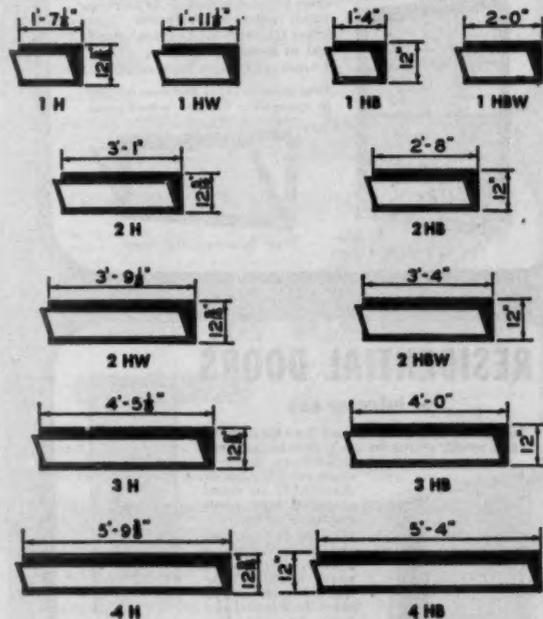


Courtesy Detroit Steel Products Co.

Basement windows below feature two-point contact with frame, anchoring fins, jamb shields, and adjustability of opening

Standard Sizes

Modular Sizes

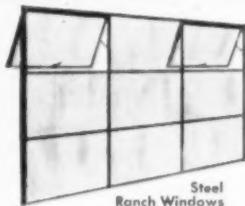


Courtesy Union Aluminum Company

Utility window units are made to fit modular principles, come already glazed, with top vent opening inward; an outer screen across this opening is built in to keep out insects and vermin. All units are easy to operate, lock securely, and have few moving parts to get out of order. They are ideal for barns, farm and storage buildings.

(Continued on page 189)

Who but TRUSCON can offer you THE MOST COMPLETE LINE OF



Steel
Ranch 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.

DOUBLE-HUNG window—a Truscon exclusive—is the largest selling steel unit of its type. Stainless steel weatherstripping and motor action spring balances built-in.

ALUMINUM CASEMENT—Truscon's newest—is modular designed to match standard concrete block dimensions. It's strong, rigid; improved hardware.

STEEL CASEMENT—America's standard of casement value.

Screens and storm sash available.

Most popular types and sizes stocked in convenient Truscon warehouses.



Double-
Hung Steel Windows



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.

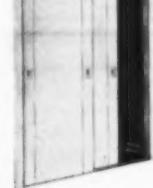
COMMERCIAL PROJECTED. Ventilator projects in or out depending upon the need and space requirements. All-steel.

Many popular types and sizes stocked in convenient Truscon warehouses.

RESIDENTIAL DOORS

For interior use

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.

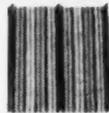
METAL LATH and ACCESSORIES

"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.



Herringbone double-mesh lath



3/8" Ribplex lath



Expanded corner bead



Bull nose corner bead



Wide flange corner bead



Diamond lath



Wide flange casing

"O-T" OPEN TRUSS® STEEL JOISTS

Great rigidity. High fire resistance; simple to install. Lightweight. "O-T" Nailer Joists also available with wood nailer strips applied.



"CLERESPAN"® JOISTS

Provide clear spans up to 64 feet. Lightweight. Easily installed. Eliminate columns. Wood nailer strips easily attached.



FERROBORD® 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.



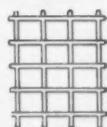
REINFORCING BARS



For reinforcing concrete slabs, footings, walls, beams, girders, columns. Available from warehouse stocks.

WELDED WIRE FABRIC

Reinforces and protects concrete slabs in driveways, foundations, steps and floors. Available in rolls from warehouse stocks.



TRUSCON

a name you can rely on

Other Truscon Metal Building Products include: Stressteel Tensioning Units; Maxim-Air, Donovan, Detention, Pivoted, and Security Steel Windows; Continuous Steel Windows; Lintels; Pressed Steel Inserts; Curb Bars; Expanded Metal; Complete Steel Buildings; Steel Radio Towers.

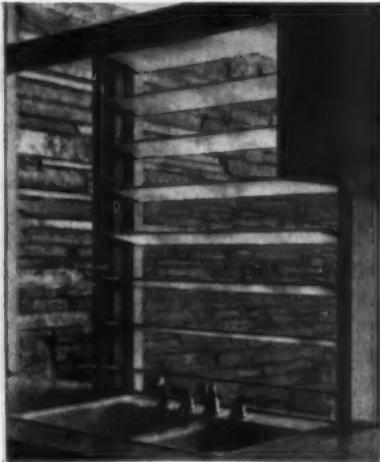
TRUSCON® STEEL DIVISION

REPUBLIC STEEL CORPORATION

1050 ALBERT STREET • YOUNGSTOWN 1, OHIO

BUILDERS... Specify SUN-SASH

air-controlled louvred windows



**America's Largest Selling
Lowest Cost Louvred Window**
SUN-SASH... a louvred window that is designed specifically to meet your building needs. Sun-Sash is perfect for new construction or remodeling... for kitchen windows... porches... breezeways... interior partitions... bathrooms... attic ventilators and cellars. Specify Sun-Sash air-controlled louvred windows — America's largest selling louvred window.



PORCH ENCLOSURE

INSTALLATION IS EASY AND INEXPENSIVE



Screw on Sash fittings to louvers in to rat-tie-proof spring clip holders. Slide glass louvers in to rat-tie-proof spring clip holders. Close end of clips over glass to hold blades firmly in position.

MAIL THIS COUPON TODAY

SUN-SASH COMPANY
38 Park Row, N. Y. 38, N. Y.

AB1

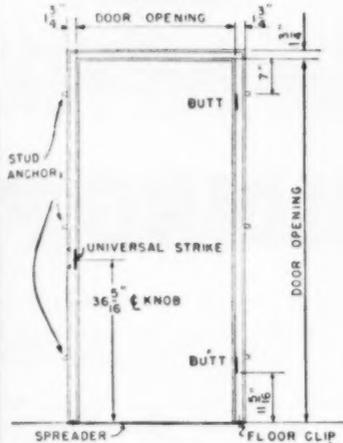
Please send me free literature on Sun-Sash

NAME

ADDRESS

CITY STATE

Steel Door Frame Information



Typical Elevation

STANDARD DOOR OPENING SIZES		
Width	Height	
1'-2"	6'-6 1/2"	6'-8 1/2"
1'-6"	"	"
1'-8"	"	"
1'-10"	"	"
2'-0"	"	"
2'-4"	"	"
2'-6"	"	7'-0 1/2"
2'-8"	"	"
2'-10"	"	"
3'-0"	"	"

*—Indicates standard stock types.
Thorn Data

IMMEDIATE SHIPMENT!



COMBINATION
WEATHER STRIP
AND
SASH
BALANCE

The sash balance with everything you need for fast, easy installation. 4 different types... special sizes to order. Simplified framing. Perfectly balanced with correct spring weight for each size. Gives you a low-cost, PROFIT-ABLE installation. Complete bulletin gives all details. Write today.

- Complete Line of Weatherstrips ●
- Nosings ● Architectural Bronze Thresholds
- Door Bottoms ● Screen Guides ●
- Bindings ● Tools ● Calking Compounds

SEND THIS COUPON for your free copies of complete weatherstrip and sash balance bulletins.

NAME

ADDRESS

CITY STATE

CENTRAL METAL STRIP COMPANY
4343 North Western Ave. Chicago 18, Ill.

WEATHER-BLOC *The Original* Trade Mark Single Unit VENTILATOR For GLASS BLOCK SMALL PANELS



LOUVER TYPE ALL WEATHER VENTILATION

- No Sacrifice of Beauty or Privacy
- Controlled Ventilation
- Vandal-Proof From Outside
- Stainless Steel Body

WEATHER-BLOC on the outside presents a series of horizontal louvers which blend with glass block and permit ventilation regardless of outside weather and assures absolute privacy no matter where the Weather-Bloc is located. The inside offers finger tip control of ventilation with adjustable louvers. Aluminum screen.

3 WEATHER-BLOC MODELS IN STANDARD GLASS BLOCK SIZES

STANDARD—glass louvers outside and inside
UTILITY—stainless steel louvers outside, glass louvers inside

ECONOMY—stainless steel louvers outside and inside. 6 and 8 inch sizes only

Purchase through

Your Glass Block Dealer or Distributor
Also Nationally Distributed By
WINCO DISTRIBUTING & MFG. CO., INC.
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Patented
U.S.A.—2565122
Canada—478095
Other Patents
Pending



GLASS BLOCK DISTRIBUTORS
Write and ask about your attractive discounts.

WEATHER-BLOC can be used in existing glass block panels, or can be built into new panel construction as easily as a single glass block.

A Product of AIR RECTIFIERS, Inc.

3734 NORTH SOUTHPORT AVENUE

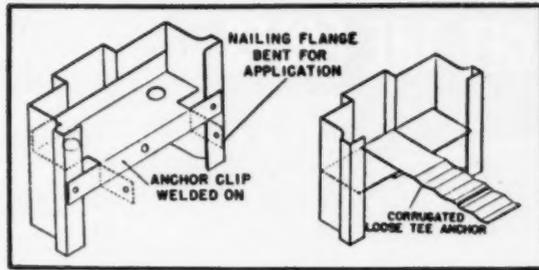
WEATHER-BLOC

CHICAGO 13, ILLINOIS

how to install a metal door frame

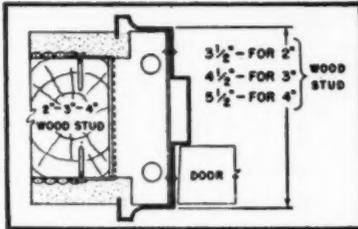
Steel door frame arrives on the site assembled in one piece, with head, two sides of trim, anchor clips (or T-anchors, if the frame is to be installed in masonry walls), hinges, steel dust box, and brass strike spot welded to the frame.

For use in wood stud partitions with plaster finish, these frames can be installed before or after partition studs are placed. In wood stud partitions with dry wall finish, the wall board should fit tightly against the back band of the frame. Where thin boards are used, it may be necessary to place shims between the stud and the board.

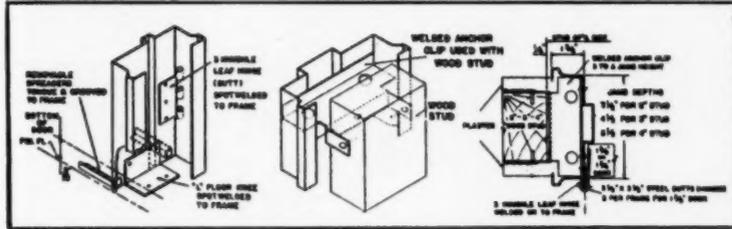


FRAME is secured to the partitions by means of anchors

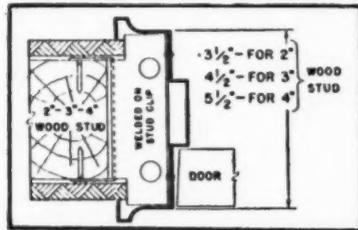
Courtesy Aetna Steel Products Corporation



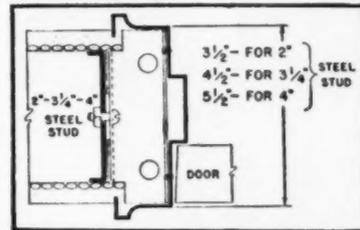
POSITION of metal frame installed in wood stud partition with plaster finish



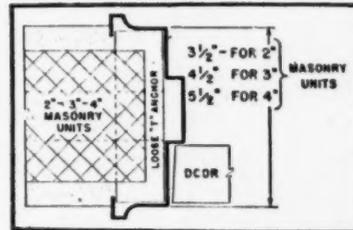
FRAME anchored to floor by knees, left. Center and right jamb clips secured to studs



POSITION of frame in wood stud partitions with dry wall finish. Where thin boards are used, it may be necessary to place shims between stud and board



WHEN metal frames are used in steel stud partitions, T-anchors may be bolted, welded or securely tied for proper anchorage. See illustration of anchors, above left



IN masonry partitions, Aetna provides T-anchors for proper bond between frame and partition. T-anchors should be placed at masonry joints, three per jamb

METAL DOORS

(Continued from page 185)

Metal doors of steel, bronze, aluminum, and a wide range of alloys are available in models which fit into both exterior and interior design. Hollow metal doors are easy to install, cannot sag, splinter, warp, or

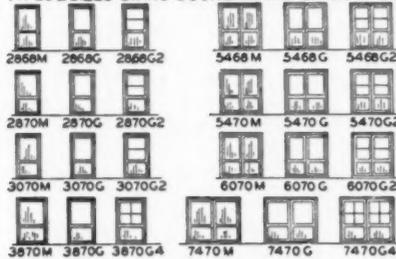
swell, and will give good performance for long periods of time.

Other types include metal-covered and tubular construction, and many metal doors are used in combination with large glass areas. Many manufacturers furnish sliding as well as conventional types of metal doors,

and most of these doors come complete with frame and instructions for installation. As with metal windows, certain precautions must be taken to avoid scratches, to use a second coat of paint on steel doors and frames (unless a baked-on synthetic paint is used) and to avoid staining the metal.

SWING & SLIDE DOORS

TYPES & SIZES-SWING DOOR & FRAME-SMALL OPTG



SWING DOORS 8'-0\"/>

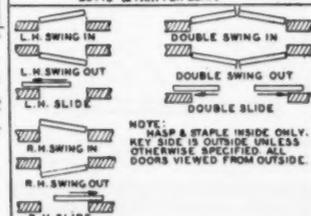
HARDWARE: MORTISE TYPE LOCKS & STRIKES (LATCH-BUT KEY OR CYLINDER MASTER-KEYED IF DESIRED)
CHAIN BOLT (DOUBLE DOOR ONLY)
FOOT BOLT (DOUBLE DOOR ONLY)
PUSH & PULL PLATES
BUTTS (1 1/2\"/>

TYPES & SIZES-SWING DOOR-LARGE OPTG



SWING DOORS 8'-0\"/>

HARDWARE: TEE LATCH (FOR PADLOCK)
CHAIN BOLT (DOUBLE DOOR ONLY)
FOOT BOLT (DOUBLE DOOR ONLY)
BUTTS (2 PAIR PER LEAF)



TYPES AND SIZES-SLIDE DOOR



ALL SLIDE TYPE DOORS 7'-0\"/>

HARDWARE: HASP & STAPLE (FOR PADLOCK)
BINDER - END STOP
CENTER STOP - GUIDES
TRACK & HANGERS
TROLLEY & CLEVIS
DOOR PULLS

KEY TO DOOR NOMENCLATURES

THE FIRST DIGITS INDICATE NOMINAL DOOR SIZE, LETTER "M" INDICATES BOTH PANELS ARE METAL, LETTER "G" INDICATES LOWER PANEL IS METAL AND UPPER PANEL GLASS. LAST DIGIT INDICATES NUMBER OF LIGHTS IN GLASS PANEL.

EXAMPLE:
3070 G2 DIGITS 3070 INDICATE NOMINAL DOOR SIZE IS 3'-0\"/>

2868 INDICATES DOOR 2'-8\"/>

50100 INDICATES DOOR 5'-0\"/>

Metal Window Institute Data

GET THE FACTS on the Amazing *Fleetlite* Aluminum WINDOWS



**Beautifully Modern
Reduces Building Time
Comes Packaged in Carton**

**Offers NEW LIVING COMFORT
EASY HOUSEKEEPING**

● Here's the revolutionary new window you've been hearing so much about... the window that builders are applauding... the window home owners are specifying—FLEETLITE Aluminum Windows. They come, packaged and ready for installation, these complete year-round units combine interior and exterior double hung windows in a four-channel extruded aluminum frame. Keep homes warmer in winter and cooler in summer.

When you build—plan for the future, insist on FLEETLITE Windows for the home owners comfort—for the added sales advantage—for protection of resale value. It costs no more to have the best.

FLEETLITE Windows are the most handsome, most practical windows in America. Get the facts for yourself—today.

WRITE TODAY for complete literature on



MADE BY...

FLEETLITE Windows
TERRITORIES OPEN
FOR FULL TIME
FACTORY REPRESENTATIVES

Fleetlite
AMERICA'S finest WINDOW

As advertised in *House Beautiful*, *House and Garden*, *Small Homes Guide*, *American Builder*, *Practical Builder* and *Magazine of Building*.

FLEET OF AMERICA, INC., 112 Pearl Street, Buffalo 2, New York

Wood Doors

Wood doors are made of many species, including softwoods, hardwoods, plywood, fir, Ponderosa pine, and in a variety of types of construction including flush, paneled, and in combination with glass inserts or panels.

Exterior doors for both home and commercial entrances are frequently heavier and more ornate than many interior doors. Both Ponderosa pine and Douglas fir doors come in a wide variety of sizes and designs, for both interior and exterior applications. The Fir Door Institute has set standards and specifications for the trade in the fir door group, and doors are manufactured to close standards for alignment, balance, and function.

Popular among more recent developments has been the hollow core flush door made up of interior sections in grid or arch or ribbed form with an outer layer of plywood or other laminated material. The engineered interior construction is said to give such doors unusual strength and rigidity, while the exterior finishes are usually very fine and susceptible of adaptation to many types of interior design.

A substantial number of wood doors have been made with fireproofing treatment, the wood being impregnated with fire-resistant chemicals. This increases the weight of the doors about 30 per cent, and several such doors have been made to pass the one-hour fire exposure test of the underwriters' laboratories.

Glass Doors

Glass doors for both exterior and interior applications follow the trend in modern design toward the use of larger glass areas in walls of both commercial and residential buildings. In commercial buildings, glass doors have come into common use for stores. In residential buildings glass doors are useful as a design feature creating a spacious appearance while affording separation; for example, keeping kitchen odors from the rest of the house, or preventing the colder air in enclosed porch from entering the rest of the living space.

Some glass door installations utilize stainless steel frames and fittings, but most use aluminum extrusions reinforced with structural steel. Because of the relatively great weight of these doors, special care must be taken to follow the manufacturer's instructions, so that the doors hang true and operate correctly, with door

FLEETLITE double hung windows on each side of FLEETLITE matching picture window.



Double windows weather stripped with pile mohair give most complete protection against winter cold, summer heat or dust storms.



Block rain, adjust air flow for inside pleasure by centering the two middle sash.



Sash easily and quickly removed for washing.



GLASS DOORS for stores and public buildings readily combine with other treatments in the modern manner

frames plumb and in proper alignment. Special glass with as much as four times the strength of ordinary plate glass is employed to make possible large doors which have no supporting cross-pieces.

Combination Doors

In addition to doors which combine wood and metal, wood and glass, metal and glass in various ways, a number of manufacturers who produce combination screen and storm sash also produce combination screen and storm doors. Door and insert units are available both in wood and metal, in a wide range of stock sizes. They come equipped with interchangeable inserts for screening or storm glass.

Cabinet and Cupboard Doors

Cabinets and cupboards offer an opportunity for the builder who operates his own millwork department. He can fabricate suitable cabinet units ready for installation. There are, however, a large number of companies which provide a full range of metal and wood doors, both of the hinged and sliding types, for cabinet and cupboard applications.

Sliding doors for wardrobe cabinets have become increasingly popular, especially since high construction costs have cut bedroom space to the point where sliding doors in thin wall partitions make for a real space-saving in the room. Decorative effects may be obtained by using flush types or panel types.

Special Types

Louved doors have become popular in warm climates for entrance installations, and in colder climates for interior uses. Louvres may be of glass, wood or metal, and doors are

(Continued on page 195)

Pella
 WOOD
 CASEMENTS
 Are easy to install
 . . . make your homes
 sell faster



HERE'S WHY PELLA WOOD CASEMENTS ARE EASY TO INSTALL . . . When received on the job, they are simply set into rough wall openings, caulked and secured in place by steel interlocking fins. Pella Wood Casements are completely assembled and prefitted at the factory—cut installation costs to a minimum. Stock-size units can be combined into hundreds of custom-like effects.



HERE'S WHY PELLA WOOD CASEMENTS ARE POPULAR WITH BUYERS . . . Permanent inside ROLSCREENS roll up and down like window shades—require no painting, storing, putting up or taking down. DUAL GLAZING insulates against winter cold and summer heat. Stainless steel spring-type WEATHERSTRIPPING eliminates drafts. Pella's PATENTED HINGE design and construction assure easy operation.

MORE PEOPLE ARE BUILDING WITH



WOOD CASEMENTS • MULTI-PURPOSE WINDOWS • ROLSCREENS • WOOD FOLDING DOORS • VENETIAN BLINDS



ROLSCREEN COMPANY, Dept. E20, Pella, Iowa
 Please send me without obligation "PELLA CASEMENT Installation Instructions in Full Size Casement Details No. 1050M."

NAME _____

FIRM _____

ADDRESS _____

CITY _____

STATE _____

HETTINGER'S

Triple Seal

PATENT NO. 2,172,580

... COMBINATION SASH BALANCES AND METAL WEATHERSTRIPPING ...

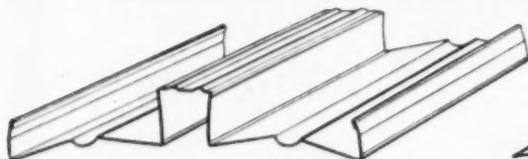
FINEST

WINDOW COMBINATION
ON THE MARKET.

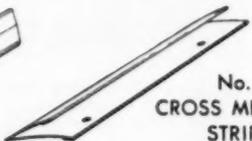
EITHER THE FAMOUS
STANDARD UNIT OR
THE NEW **ONE-PIECE**
FULL-JAMB COVER UNIT
NOW AVAILABLE.

DON'T FORGET!
ORDER WEATHERPROOF
DOOR WEATHERSTRIP
SETS AND THRESHOLDS
WITH YOUR ORDER FOR
TRIPLE SEAL.

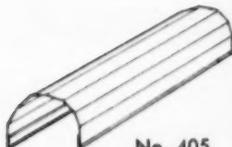
SEND FOR FREE HAND
MODEL AND
PARTICULARS—SEE FOR
YOURSELF! THEN PLACE
YOUR ORDER.



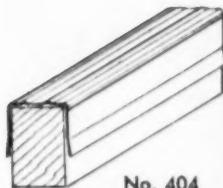
No. 414
ONE-PIECE
FULL JAMB COVER
SIDE METAL STRIP



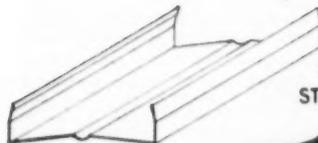
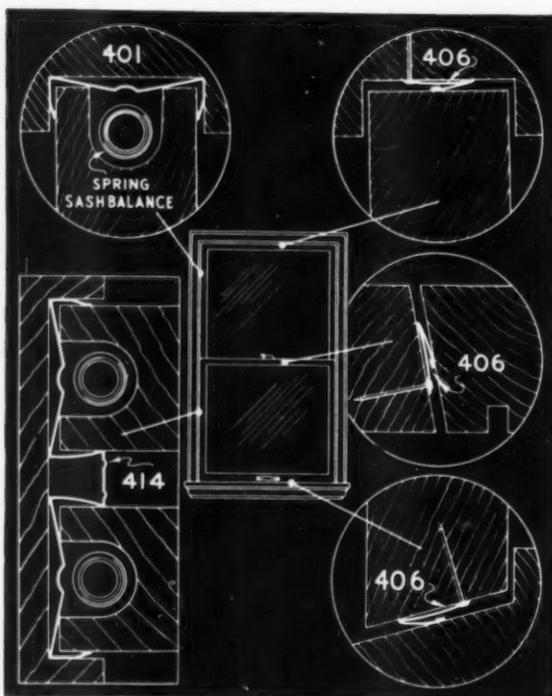
No. 406
CROSS METAL
STRIP



No. 405
SASH BALANCE
COVER



No. 404
PARTING STOP
COVER

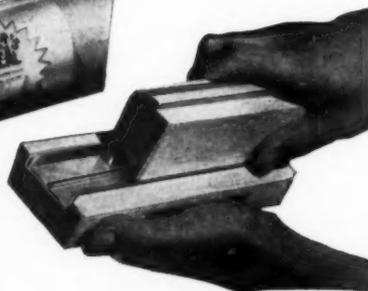


No. 401
STANDARD
SIDE METAL
STRIP



STANDARD SET
TUBE PACKAGED

ONE-PIECE UNIT ALSO
AVAILABLE IN RETAIL BOX
PACKAGE, OR IN BULK.



FREE HAND MODEL

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

SPACE SAVERS... COST SHAVERS... SALES BUILDERS

"MODERNFOLD" Doors

Let you offer customers More for Less!

"Modernfold" Doors fold rather than swing, stack neatly against the door jamb when not in use. In place of conventional doors they permit full use of valuable floor and wall space ordinarily lost to door swing. Used as a "movable wall" as shown below, a "Modernfold" door gives homes an "extra" room without permanent or inconvenient loss of living space. You can make rooms do double duty, speed sales, with "Modernfold" doors.



RUGGED, DEPENDABLE, EASY TO MAINTAIN

Frame: Steel, patented box construction, double-strength hinges at both top and bottom; smooth accordion-like action, assured rigidity. (Unusually tall doors equipped with extra hinges.)

Covering: Heavy cotton, vinyl impregnated. Flame resistant, withstands flexing and abrasion. Resists peeling, chipping, cracking and fading. Washes with soap and water. Available in 23 colors.



ANNOUNCING!

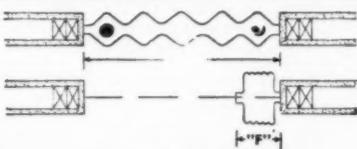
New "Spacemaster" folding doors

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.



Sizes: Width Length
2' 6" x 6' 8 1/2"
3' 0" x 6' 8 1/2"
4' 0" x 6' 8 1/2"

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

STOCK DOORS—Available from distributor's stock

Name	Width "W"	Height "H"	Stock "S"
Leader.....	2'-6"	6'-8 1/2"	6"
Master.....	3'-0"	6'-8 1/2"	6 3/4"
Harding.....	3'-7"	6'-8 1/2"	7 1/2"
Wilson.....	2'-6"	6'-6"	6"
Burton.....	3'-0"	6'-6"	6 3/4"
Morris.....	3'-7"	6'-6"	7 1/2"
STANDARD DOORS			
Duke.....	2'-6"	6'-8 1/2"	6"
Regent.....	3'-0"	6'-8 1/2"	6 3/4"
Norfolk.....	3'-7"	6'-8 1/2"	7 1/2"
Colton.....	4'-2"	6'-8 1/2"	8 3/4"
Morton.....	4'-9"	6'-8 1/2"	9"
Shelton.....	5'-4"	6'-8 1/2"	9 3/4"
Dixon.....	5'-11"	6'-8 1/2"	10 1/2"
Alden.....	6'-6"	6'-8 1/2"	11 1/4"
Clinton.....	7'-1"	6'-8 1/2"	12"
Winton.....	7'-8"	6'-8 1/2"	12 3/4"
Morgan.....	8'-3"	6'-8 1/2"	13 1/2"
Broadmoor.....	8'-10"	6'-8 1/2"	14 1/4"
Leads.....	3'-0"	8'-0"	6 3/4"
LaGrange.....	3'-7"	8'-0"	7 1/2"
Logan.....	4'-2"	8'-0"	8 1/4"
Leland.....	4'-9"	8'-0"	9"
Longfellow.....	5'-4"	8'-0"	9 3/4"
Livingston.....	5'-11"	8'-0"	10 1/2"
Lacomb.....	6'-6"	8'-0"	11 1/4"
Lincoln.....	7'-1"	8'-0"	12"
Lament.....	7'-8"	8'-0"	12 3/4"
Lansing.....	8'-3"	8'-0"	13 1/2"
Lexington.....	8'-10"	8'-0"	14 1/4"
Liverpool.....	9'-5"	8'-0"	15"
Lorain.....	10'-0"	8'-0"	15 3/4"
Lindell.....	10'-7"	8'-0"	16 1/2"
Lancaster.....	11'-2"	8'-0"	17 1/4"

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.

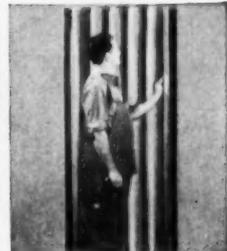
TIME-SAVING, LABOR-SAVING INSTALLATION



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.

Look in your city classified directory—under "doors"
—for the name of our installing distributor

NEW CASTLE PRODUCTS
NEW CASTLE, INDIANA

In Canada: "Modernfold" Doors,
1315 Greene Ave., Montreal



the doors that fold
like an accordion

modernfold
DOORS

by NEW CASTLE

COPYRIGHTED NEW CASTLE PRODUCTS 1953

Sold and Serviced Nationally

New Castle Products
P. O. Box 501, New Castle, Indiana

Gentlemen:

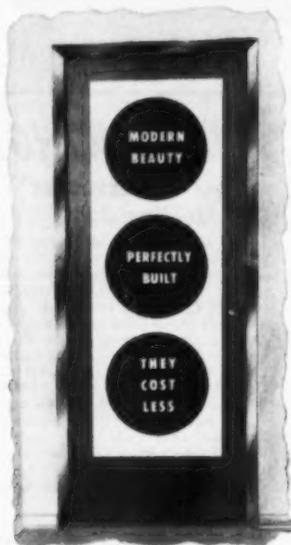
- Please send me full details on "Modernfold" doors
- Please send me full details on "Spacemaster" doors

Name.....

Address.....

City.....County.....State.....

De Luxe METAL DOOR JAMB

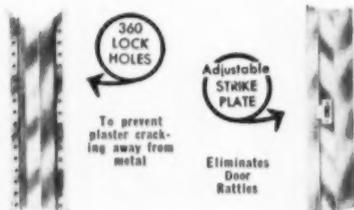


PATENTED

**OUR METHOD
SAVES TIME AND LABOR COST
LEAVE THE DOOR AS IS AND ADJUST
THE JAMB TO FIT THE DOOR**

(No Welding)

Nail on metal type jamb made in 3 sections for ease in handling and fast installation



DELUXE JAMBS ARE PREFERRED:

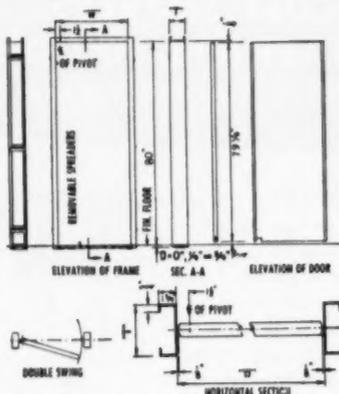
1. By builder because it cuts his cost and at the same time gives him a much superior product.
2. By carpenter who installs jamb because it is easily handled and installed with no difficulty.
3. By plasterer because he can plaster flush with the jamb easier than any other metal jamb and because plaster will not crack around jamb. (See illustration)
4. By painter because jamb and wall can be painted at same time with same paint.
5. By home buyer because it is durable, easy to maintain, trim, neat and modernly beautiful. Also manufacturers of sliding metal door jamb and hardware, double-acting jamb, open casing metal door jambs, and a complete line of metal door jambs.

A PRODUCT OF

**DELUXE
METAL TRIM COMPANY**

3343 FRANKLIN AVE. OLIVE 0325 ST. LOUIS 8, MO.
TERRHILL 3-5525

double acting interior door



Courtesy American Welding & Mfg. Co.
Details of installation of double acting steel interior door, showing rough opening dimensions required

(Continued from page 191)
available in a wide range of materials to fit into design requirements. The jalousie-type of door claims the advantages of controlled ventilation with privacy.

Sliding doors either hung on a track with rollers overhead or resting on rollers at the bottom, are often used by the builder to gain space or add convenience to the home. They are particularly useful in connection with entrances to basement or attic stairs, in hallways where swinging doors would be in the way, and between rooms which can be thrown together for added spaciousness by opening the doors. These are frequently used in pairs like double doors. Sliding doors for closets are also available from a number of manufacturers.



SLIDING WARDROBE doors permit easier access to contents of closet and also save floor space

Folding doors of hinged construction are largely being supplanted in new construction with flexible folding doors of several types. These are either vinyl-covered plastic units mounted in steel frames which come ready to install or strong, light-weight wood slat material woven together and suspended from an overhead track. They operate easily, and

**WEATHERSTRIPPED
DOUBLE-HUNG
WOOD WINDOWS**
show infiltration ratio

6

TIMES LESS

... than non-weatherstripped windows by actual test of weatherstrip manufactured by members of the Weatherstrip Research Institute. (University of Minnesota Institute of Technology Testing Laboratory.) Effectiveness is greater than 6 for average or poorly fitted windows.

Reduction in Air Infiltration Through Windows Due to Weatherstripping (Unlocked—no storm sash)

Type of Fit	Par Infiltration* cfh/ft. of Crack		
	Weather- stripped	Non- Weather- stripped	Weatherstrip Effectiveness†
Well	14.2	61	4.30
Average	16.7	104	6.24
Poorly	23.8	163	6.85

*At a pressure of 0.20 inch of water (20.4 mph wind velocity).

†Ratio of non-weatherstripped to weatherstripped par-infiltration.

The above facts, plus the complete story on weatherstripping is presented in Bulletin No. 35—"Air Infiltration Through Weatherstripped and Non-Weatherstripped Windows," published by the University of Minnesota, Institute of Technology. The facts showing the economic value of weatherstrip are based on over-all research of climatic conditions in 12 selected cities in the U.S. covering a full range of weather conditions.

THE SYMBOL OF
INSTITUTE MEMBERS

WEATHERSTRIP Research
INSTITUTE

OFFICE OF THE SECRETARY
BOX 101 - RIVERSIDE, ILLINOIS
DEPT. AB-43

Please send my FREE Copy of the 47 page, illustrated Bulletin No. 35.

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

AMERICAN BUILDER



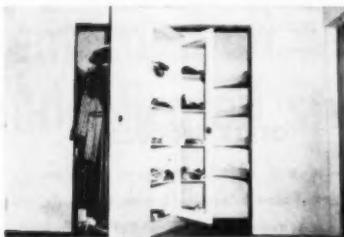
FLEXIBLE DOORS and room dividers are used like standard doors. No trim is needed. Usually they hang from ceiling

add a note of vertical corrugation which works into other design elements in the room in a pleasing manner. Builders estimate that folding doors take from 20 to 50 per cent of the space needed by ordinary doors.

Fire-resistant doors for special purposes in small commercial buildings are also found useful in home construction in the custom-built field. These may be of metal or metal-covered wood, and in some instances are of chemically-treated wood. Various manufacturers provide a wide range of models and sizes which have passed the underwriters' one-hour fire-rating test.

Roll-Up Doors

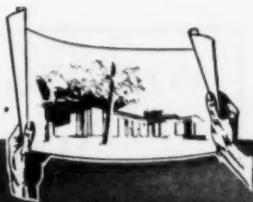
Rolling doors for garage entrances or service entrances include roll-up type of grilles used also in porch and patio treatments in modern home construction. Rolling doors are neat in appearance, easy to operate, save space, give weather protection, burglar protection, and fire protection if treated with fire-resistant material. They can be operated automatically if desired.



TWO VIEWS of revolving unit used in small home closet construction. All stored material is easily reached

APRIL 1953

From plan to finished house..



Slide-View SLIDING GLASS DOORS AND WINDOWS... *save time, labor and money!*

Slide-View makes homes more livable and saleable too. Here are important reasons why building contractors prefer Slide-View—

- 1** Strong sections of bonderized 14-gauge steel delivered to job in a complete pre-assembled package ready for easy, fast installation.
- 2** Costly time-wasting fitting and blocking eliminated by flat head and reinforced extra-strong threshold.
- 3** Glazing costs held down to a minimum by deep rabbets and metal bead.
- 4** All standard Slide-View types fall within stud thickness.
- 5** All units are fully adjustable and require no after-installation service.

On every house where you install Slide-View, you build a home of superior beauty, comfort and lasting value.

*"Brings the
Outside
Inside"*



Slide-View

STEEL DOOR AND WINDOW CO.

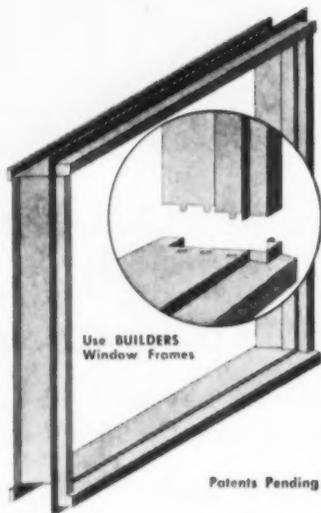
521 NORTH LA CIENEGA BOULEVARD, LOS ANGELES 48, CALIFORNIA

*There is an authorized
Slide-View Dealer near you
to serve you. Write today
for complete specifications
and installation details.*

WHAT YOU SAW at our Chicago Exhibit IS WHY WE SAY

"BETTER BUILDERS BUY BUILDERS FRAMES"

WE SINCERELY THANK the 6,000 Builders, Distributors, Dealers and Architects who visited our Booth at the National Home Builder's Exposition in Chicago, and saw for themselves the advantages of our KD (knocked-down) Window and Door Frames. The enthusiastic acceptance of our products was magnificent. If you were not there, write us for details.



Through-the-wall Window Frames made from GALVANITE STEEL, ALUMINUM OR STAINLESS STEEL to fit all standard steel or aluminum casement windows.

Patents Pending



BUILDERS ADVANTAGES

CONVENIENT INSTALLATION before or after wall is raised. Drive a dozen nails and you are through.

NO ADDITIONAL LABOR. BUILDERS FRAMES are complete through-the-wall construction. No trim required inside or outside.

SAVE PAINT, only one coat needed.

SAVE TIME, many hours per house, many days per project.

BUILDERS FRAMES were designed for Builders, after exhaustive studies with Builders, Architects and Dealers, to help you meet the requirements of your customers—HOME BUYERS.

Our Window and Door Frames are shipped knocked-down to your warehouse, or can be shipped assembled direct to your job when specified. Home Buyers are enthusiastic about the fact that Builders Window Frames are absolutely water-proof in all corners.

DISTRIBUTOR ADVANTAGES

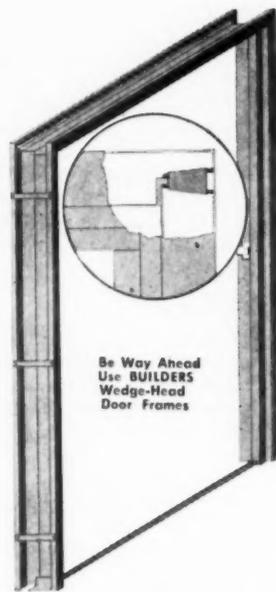
MINIMUM SPACE required for warehousing.

NO LOST SALES due to wrong size in stock.

NO DEAD INVENTORY. Small stock heads, sills and jams make up into all standard sizes.

BIG SAVINGS ON FREIGHT over assembled units. **EASILY ASSEMBLED** in your warehouse.

YOU CAN RECOMMEND and satisfy your customers with **BUILDERS FRAMES.**



Steel Door Frames BEAUTIFUL IN DESIGN, Economical and Permanent.

"STEEL SEAL" ROOF EDGING

Galvanized gable roof edging. Nail to decking, slide roofing into place. Protects barge board from rotting, prevents wind from getting under roofing.

OTHER PRODUCTS

Steel and Aluminum Liners, Window Fins, Formed Lintels. Let us quote on your requirements for special window and door frames.

Write For Catalog and Dealer's Name In Your Territory

BUILDERS MANUFACTURING CO.

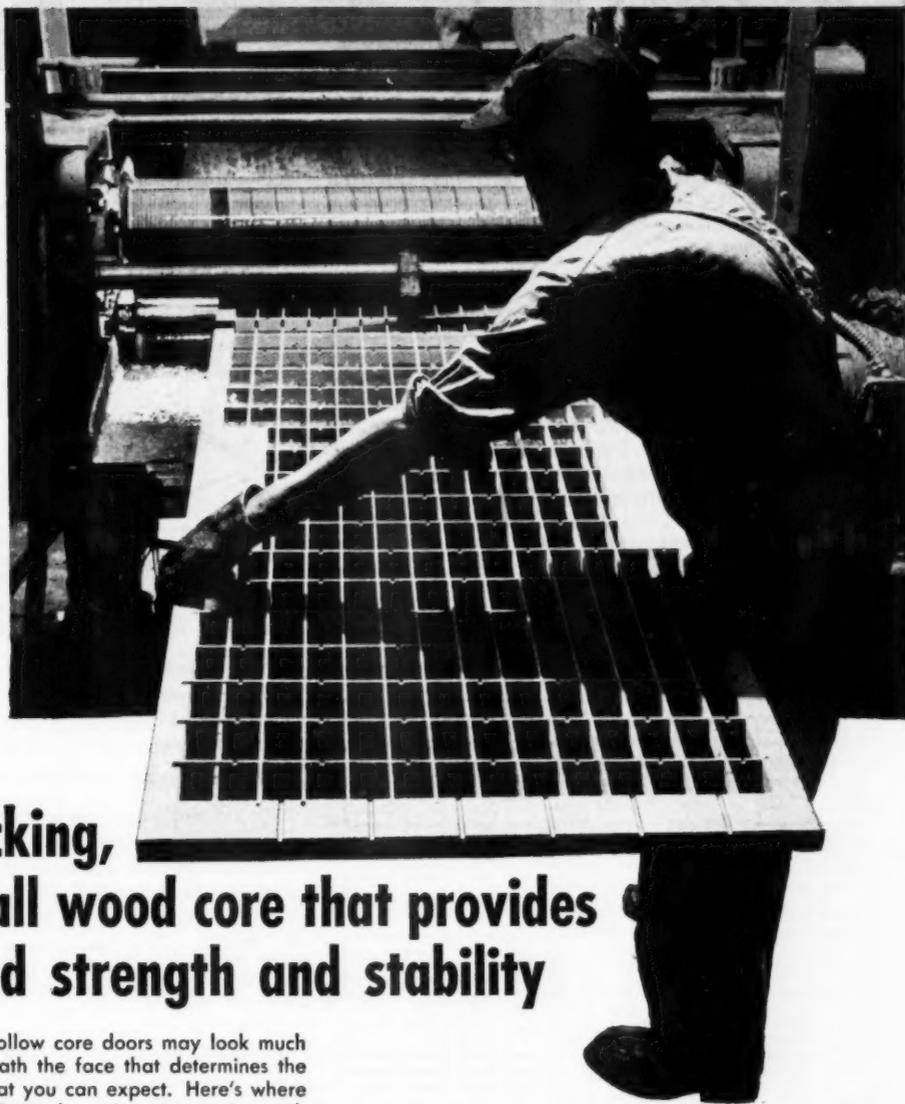
1514 Brown-Marx Building, Birmingham, Alabama

"BETTER BUILDERS BUY BUILDERS FRAMES"

PAINE REZO DOORS

T. M. REGISTERED

coreway
the doorway to trouble-free service



Here's
the interlocking,
ventilated all wood core that provides
unduplicated strength and stability

On the surface, flush hollow core doors may look much alike, but it's what's beneath the face that determines the service and satisfaction that you can expect. Here's where the superiority of Paine Rezo doors is most pronounced; for nowhere else will you find equal dimensional stability, nor such lightness in weight combined with great structural strength.

For these reasons architects and contractors everywhere have installed more than five million Paine Rezo doors in

buildings of every type. No other hollow core door has been so widely endorsed, so thoroughly time-proved. Remember, when you decide on Paine Rezo doors, you specify a door that not only looks good, but is good *all the way through*.

Write for an illustrated data bulletin.

Manufactured by the

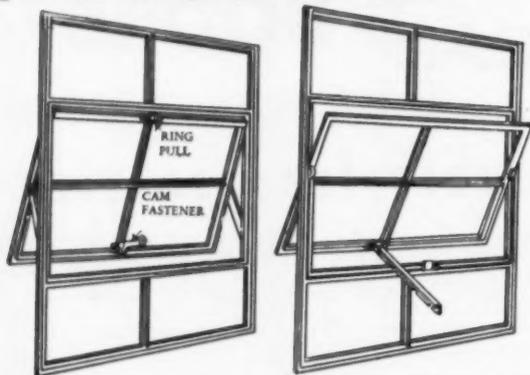
PAINE LUMBER CO., LTD. *Oshkosh Wisconsin*

ESTABLISHED 1853

1953 is the
PAINE
Centennial Year



pivoted and projected windows



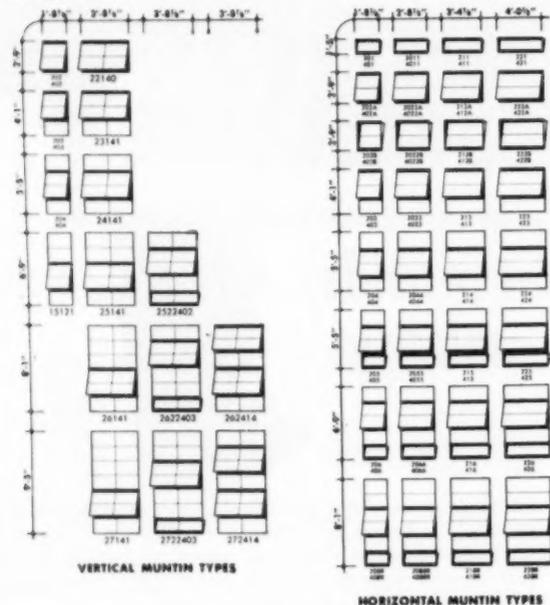
Courtesy Hope's Windows, Inc.

COMMERCIAL PROJECTED

Typical commercial projected window (left above) and pivoted window (right), showing basic construction features including operating devices

Pivoted and Projected Types

Included in this category are awning windows with a hopper vent at the bottom which swings inward instead of outward; the heavy projected units; and the semi-protective pivoted types. With pivoted units, the unit swings horizontally at the center instead of at the top, as in awning types, so that the vent projects outward and also inward at the same time. This allows windows to be kept open during rains; the projecting portion keeps the rain out, while the inner portion acts as a baffle to deflect air towards the ceiling. Units are available in wood, steel, solid bronze, or aluminum. They come with standard hardware and may be fitted with screens and in some cases with storm sash, particularly on the opening-out vents.



Aluminum Window Mfrs. Assn. Data

P-A1 & P-A2 PROJECTED WINDOWS in the new AWMA standard sizes for residential, commercial, and monumental-type buildings. Dimensions are window opening dimensions. All vents shown projecting out may project in if all in same unit project alike. Vertical muntins may be added to 200 and 400 series windows if based on 20" or 24" bar centers. Fixed types are available for all sizes shown

Combination Units

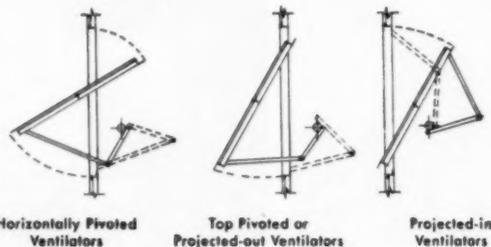
Combination screen and storm sash are available from a host of manufacturers, and are made in wood, aluminum, stainless steel, and other materials. Screens are furnished either full length or in half-length sections, wired with copper or aluminum cloth. Storm sash usually comes in two sections, making the combination unit a three-piece affair.

One manufacturer lists 20 stock sizes, and others make many more, as well as fabricating such units to order to fit existing windows of almost any structure. Metal units are sometimes built with a wood subframe, with steel or aluminum parts carefully finished and joined to the subframe.

mechanical operators

lever-arm operators

Lever-arm operators are used for rapid control of short runs of projected or pivoted ventilators. Lever arms on a rotating shaft running parallel to the windows are connected to the ventilators by suitable links attached to steel plates. Movement of the lever arms opens or closes the ventilators as the shaft is rotated. Windows are securely locked in any position.

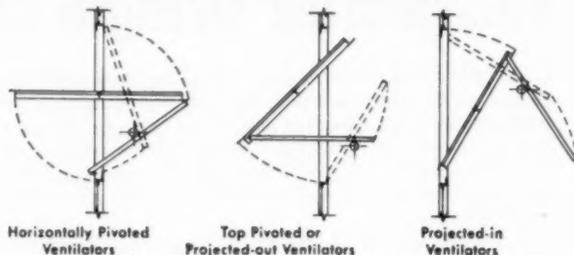


power

Power for lever-arm operators is furnished to the horizontal shaft by a worm driven segmental gear which may be operated from the floor by an endless chain or by a shaft provided with suitable miter gears and handwheel.

rack-and-pinion operators

Rack-and-pinion operators are used to control long runs of projected or pivoted ventilators or for short runs of continuous windows. Pinions on a revolving shaft engage straight or curved toothed racks which are directly connected to suitable plates on ventilators. Curved racks are desirable where clearances are limited. Use rack-and-pinion operators for heavy duty.



power

Power for rack-and-pinion operators is furnished by a worm driven full gear operated from the floor by an endless chain or by a shaft with suitable miter gears and handwheel. Electric drive with remote control can be provided.

Ceco Steel Data

HOW TO ADJUST A STEEL CASEMENT (BEFORE GLAZING)



Ventilator should toe out at bottom— $\frac{3}{4}$ " for each light high.

If ventilator toes out more than $\frac{3}{4}$ " for each light high—reverse process.



4

STORING—Steel residence casements should never be laid flat one on top of the other. Always place casements vertically, using two parallel planks as a base and lean one unit against the other.

Do not pile any other materials on top of the casements, and do not permit building tradesmen to use the casements as ladders or as supports for scaffolding. Store the hardware and other fittings in a dry place where they will be safe and protected from the weather.

FIELD PAINTING—For best results, steel casements should receive the first field coat of paint before erection. Surfaces to be painted must be clean, and no painting should be attempted if surfaces are covered with frost or moisture.

ERECTING—1. Any steel residence casement that is damaged should be put in good condition before using.

2. When shipped, all ventilators are held shut. Keep the ventilators securely in place until erection.

3. All rough openings should be plumbed and squared during construction and will vary in size according to space needed for interior finish. Each finished opening must be $\frac{1}{4}$ " wider and $\frac{1}{4}$ " higher than the overall dimensions of the casement frames. This will permit installation without distortion.

4. The outside of the frame and the mullions should be buttered with mastic before the casement is placed in the rough opening. Application of mastic is not to be confused with caulking of the casement opening, which is an entirely separate operation.

2

If ventilator closes without toeing out, or if ventilator strikes at bottom in closing—

then.....

3



... Spring ventilator to proper position.

A. Insert 2" x 4" at bottom.
B. Rack ventilator as illustrated.

Check alignment: If ventilator is too high — force down with 2" x 4".



5

5. If the casements are to be erected in wood construction, apply the screws so as not to distort the casement frames. Do not draw the screws tighter in one hole than in another.

6. If the job is of masonry or brick veneer construction, do not use the casement as a straight-edge for the brick, stone, concrete block or clay tile. Do not force the masonry units against the steel casement frame, as this will distort the casement and make weathering imperfect.

7. Where the ventilators extend to the head of the casement, a head drip is furnished loose when specified.

It should be applied before the casement is erected. This is accomplished by placing the head drip on the top edge of the casement frame and tapping lightly to seat it in place. No screws or bolts are required. Where the ventilators do not extend to the head of the casement, no head drip is necessary, because a drip is provided as an integral part of the transom bar.

8. After the casement is erected and as you install the inside trim, be sure that you allow $\frac{3}{4}$ " clearance around the casement on the interior, so screens and storm windows may be installed.

9. The $\frac{3}{4}$ " clearance is needed at the sill for another reason, too—to provide room for the underscreen operator. You will get this $\frac{3}{4}$ " clearance if, in applying the inside trim, you bring the finished stool up flush against the bottom edge of the stool gauge on the casement. Then,

If ventilator is too low—force up with 2" x 4".



6

when the underscreen operator is installed, it will give the appearance of resting on the stool.

10. After erection but before glazing, inspect the casements to see that all ventilators are weathered properly—that is, that the ventilator fits snugly when closed. It is difficult to weather the ventilator after glazing. Test the fit before installing hardware by pushing the ventilator closed gently. The top of the ventilator should touch first while the bottom of the ventilator extends $\frac{1}{4}$ " for each light high. Then a slight push on the bottom should bring the ventilator to bear evenly on the casement all around. Later, after you install the hardware, this top-to-bottom closing operation will be accomplished with the underscreen operator. Be sure all plaster and dirt are removed from the inside of the frame and do not attempt to force the ventilators closed when such conditions exist.

11. After glazing and painting, apply the hardware.

12. **PUTTY**—Steel window putty, especially prepared for outside use, must be used. Putty should spread easily and smoothly and should adhere to both steel and glass.

13. **GLAZING**—Spread putty over the glazing rabbet before setting the glass. Push the glass firmly into position so that putty fills all crevices and forms a uniform, watertight bearing surface. The back putty layer should be about $\frac{1}{32}$ " thick. Center glass in frame. Slip the glazing clip into place and apply the face putty.

Ceco Steel Corporation Data

Won't rust, corrode or stain
and it's

FREE!*



*
**ENOUGH
LUMITE
SCREENING
FOR ONE
DOUBLE-
HUNG
WINDOW**

PROVE IT TO YOURSELF! Screen just one standard-size window (2'-0" x 3'-2")—then leave it up all year long. You'll agree Lumite outlasts all other screenings... won't rust, won't corrode.

Send
this coupon
today!



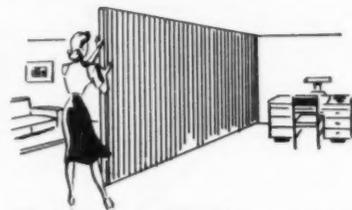
LUMITE DIVISION (Dept. AB-2)
CHICOPEE MILLS, INC., 47 Worth St., New York 13, N. Y.

I am a member of the home building industry and am interested in Lumite screening. Please send me enough Lumite to screen one (1) double-hung, standard window, 2'0" x 3'2", and the new specification brochure.
(Please attach this coupon to your business letterhead.)

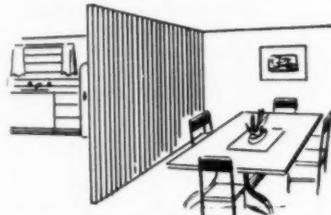
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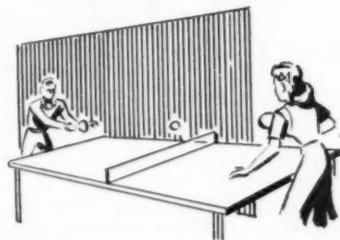
5 ways to use accordion doors



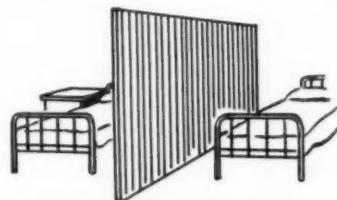
1 Flexible partitions between living areas add privacy when desired, create sense of space in limited areas when open



2 Division between dining area and kitchen creates mealtime intimacy, can be opened to ease serving and cleaning-up



3 Basement play areas screened off from furnace and utility area for convenience can be opened up for wash-line space and other utility functions



4 Hospitals and institutions find added flexibility in patient care with folding door partitions between beds



5 Flexible doors conceal closet and wardrobe storage walls and cupboard space without taking up valuable floor space

ideal
control
of
light
air
temperature
privacy



with
all-*Flexalum*[®] venetian blinds

Make your homes completely functional—with a completely functional window treatment. FLEXALUM blinds give light without glare, fresh air without drafts, comfortable room temperatures, and privacy without that shut-in feeling. And this most efficient of all window-coverings is also the most attractive, the most durable, and the easiest to clean.

The all-FLEXALUM blind gives you durability and lasting beauty:



**Wipe-Clean Plastic
Tapes and Cords**

A damp cloth wipes away the stubbornest stains. Tape won't shrink, stretch, fray or fade.



**Snap-Back
Aluminum Slats**

Spring-tempered to snap back ruler-straight even when bent to 90° angle. Won't rust, chip, crack, peel or change color.



Insist on this Mark

Look for the Flexalum "visible-invisible" trademark. It's your assurance of the top quality venetian blind.

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J. S. THORN COMPANY
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Please send Thorn's 1953 Catalog.

Please send name of nearest Thorn dealer.

Name _____

Address _____

City _____ State _____



Rusco Horizontal Slide Windows are available in a range of sizes to fit conventional window openings. The standard unit consists of one horizontal slide glass insert with Lumite screen panel and one fixed light. Also available in composite unit with fixed picture window and sliding right and left hand ventilating flankers.

Now...RUSCO **HORIZONTAL SLIDE** Tubular Steel Windows!

New Addition to Prime Window Line Makes Ideal Treatment for Added Wall Space, Bedroom and Bathroom Privacy, Above Sinks, Etc.

The F. C. Russell Company has now applied the proven engineering principles of its widely-accepted vertical-slide Prime Window to a new line of Horizontal Slide Windows. These Horizontal Slide Windows offer the same exclusive features and advantages. Frame and window members are of streamlined, rigid, tubular

galvanized steel, bonderized and finished with baked-on outdoor enamel. They are supplied as completely finished assemblies and provide the same ease and speed of installation and convenience during construction.

Rusco Horizontal Slide Prime Windows ideally meet design and construction requirements for high window placement, such as in ranch type houses, where added usable wall space is desired, and in hard-to-reach places such as over sinks, bathtubs, etc. They assure greater ease of operation at shoulder-high or head levels.

Rusco Prime Windows Are Fully Pre-Assembled
Factory-Painted, Hardware Attached—
All Ready to Install in Window Opening!



Sliding Glass and Screen Inserts easily removed from inside for convenience in cleaning. The Rusco removable sash feature has tremendous appeal as a convenience and safety feature.

GLASS • SCREEN

BUILT-IN WEATHERSTRIPPING

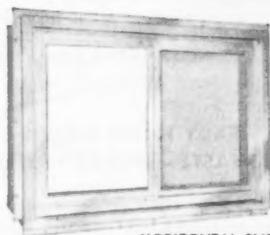
INSULATING SASH (Optional)

WOOD OR METAL CASING

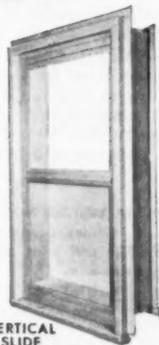
...OR STEEL FINIS

all in one unit!

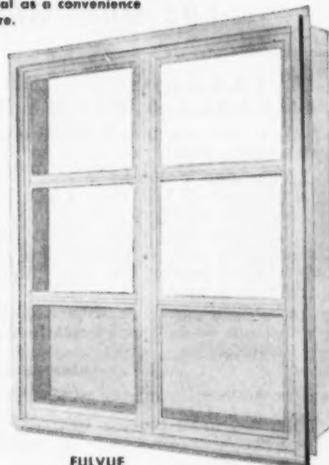
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HORIZONTAL SLIDE



VERTICAL SLIDE



FULLVIEW

RUSCO

Galvanized
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PRIME WINDOWS

FOR COMPLETE SPECIFICATIONS
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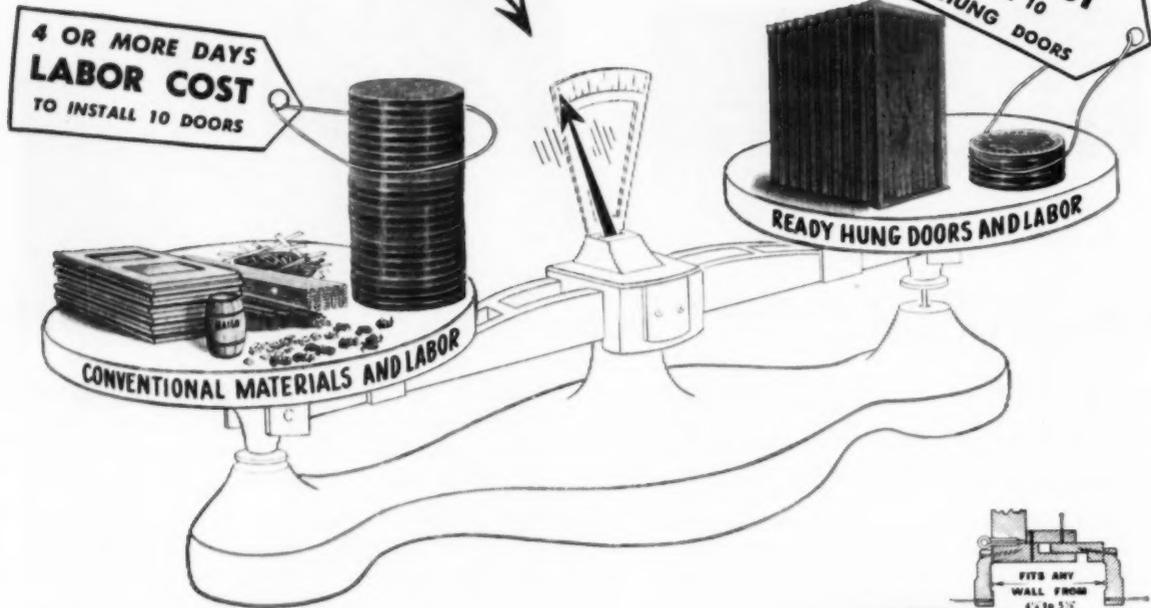
THE F. C. RUSSELL COMPANY

CLEVELAND 1, OHIO DEPARTMENT AB43
IN CANADA: TORONTO 13, ONTARIO

APRIL 1953

203

The Saving is in the Labor of installation



The Door and Frame PACKAGED UNIT



PATENT NO. 2489029

IT TAKES ONLY 20 MINUTES TO INSTALL A READY HUNG DOOR!

Yes, you can install 10 Ready Hung Doors in 1/2 a day, with nearly an hour to spare.

You save a lot of money when you do 25 to 40 hours work in less than 4 hours. In addition to direct labor cost savings, reduced man hours means reduced supervision cost, insurance cost, social security cost and accounting cost — because the job is finished as much as a week earlier, you save interest expense and close the sale sooner.

All these savings are yours because Ready Hung Doors are delivered to you with all the tedious work done — as it should be — on precision machinery and jig assembled on a high production assembly line. All you do is separate the halves of the two piece jamb, slip them back together in the opening and nail it to the wall. With nothing to saw, fit, chisel or plane you can't miss!

READY HUNG DOORS SAVE TIME-LABOR-MONEY WASTE - WORRY - SKILL and DO A BETTER JOB

WRITE FOR FOLDER 1451—36 cartoons in this folder (from our recent advertising campaign in this magazine) show 36 REASONS WHY READY HUNG DOORS SAVE. You will want this folder for reference—in addition, you will find the cartoons amusing.

SOLD THROUGH LUMBER DEALERS
For further information write the mill nearest you.

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DALLAS, TEXAS
Ready Hung Door Mfg. Corp.
1113 Dragon

DENVER, COLORADO
Prefabricators, Incorporated
P. O. Box 5222

GRAND RAPIDS, MICH.
Haskelite Manufacturing Corp.
701 Ann St., NW

HOUSTON, TEXAS
Ready Hung Door Mfg. Co.
P. O. Box 124

MEMPHIS, TENN.
Ready Hung Door Mfg. Corp.
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NEW YORK, N. Y.
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Ready Hung Door Mfg. Corp.
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TORONTO, CANADA
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READY HUNG DOOR CORP., Fort Worth 2, Texas



PAT. NO. 2489029
*TD. ME. REG. U. S. PAT. OFF.

908m NO. 3453 1

Saran Plastic Screening

Saran screening is receiving current attention for use in windows and doors of residential, agricultural and industrial buildings. Special installations have varied from protective coverings on greenhouses to placing over children's play pens.

Highly resistant to damage and abuse, it has high resiliency. Rust-proof, stainproof qualities make it possible for screening to be left on windows, doors and porches all year round. It needs no protective painting. The mesh is easily washed with a damp cloth. It is also non-inflammable. This ease of maintenance reduces the expense in upkeep.

Saran screen cloth is very easy to handle. It can be splined into metal frames and tacked, stapled or splined into wood frames. A plastic spline which may be rolled into place either with a hand or an electrically driven wheel is available to screen manufacturers.

Saran screening is woven from a monofilament which is extruded from saran powder, cooled, stretched, inspected, spooled and woven into screen cloth. The saran powder is made by the Dow Chemical Company. It is a thermoplastic, derived from petroleum and brine as its basic raw materials. These are converted into vinylidene chloride and polymerized, generally with vinyl chloride. Saran is a copolymer of approximately 90% vinylidene chloride and 10% vinyl chloride.

Woven of a filament having a diameter of 0.015", the screening is produced in the commercial standard mesh, 18x14. This mesh is available in all standard widths, 24", 26", 28", 30", 32", 34", 36", 42", and 60". The standard colors are gray, an aluminum shade, and a dark green. A fine mesh screen, 20 x 20 mesh with 0.012" filament is available in gray only, in 26", 28", 30", and 36" widths.

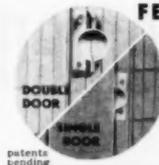


TO GIVE YOU THE ADVANTAGES OF LOW COST MODERN CONSTRUCTION . . .

The low initial cost of Ra-Tox Folding Doors plus the savings made by the total elimination or simplifying of wall construction . . . add up to impressive total savings on every house you build.

Make all interior door openings except bathroom with simple plaster finish and install Ra-Tox Folding Doors. Eliminate costly corner clothes closets by installing room high Ra-Tox Doors on corner-curve track. Ra-Tox Doors are supplied complete, in wide choice of colors or natural wood finish, with all hardware and wood track, ready to install.

FEATURES



patents pending

HANDLE-LATCH SET

Complete new unit, an exclusive Ra-Tox Door feature, designed by Walter Dorwin Teague Associates.

CURVED WOOD TRACK

Sensational, exclusive Ra-Tox Door feature. Joins with straight track for room high door installation to complete wardrobe or clothes closet.



VENTILATION . . . open slot design of woven basswood door fabric lets air pass through . . . important in heating, air conditioning, and clothes closet ventilation.

SAVE ROOM SPACE . . . small rooms are no longer a problem. Ra-Tox Folding Doors save room space wasted by "swing" of standard hinged doors.

ALL SIZES . . . to meet any need from standard door sizes up to room high doors or room dividers.

For Complete Information write for Bulletin 706

THE hough shade CORPORATION

1044 Jackson Street • Janesville, Wisconsin

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Quality Millwork

COLONIAL CORNER CABINETS

KITCHEN UNITS
Base and Wall Cabinets

FIREPLACE MANTELS

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DOOR BLINDS WINDOW BLINDS

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BASEMENT WINDOW UNITS



To top grade materials and superior workmanship, GREGG adds sturdy packaging for easy storage and handling and to assure that every piece reaches the job undamaged, ready for installation.

Packaged
FOR YOUR
CONVENIENCE and PROFIT



GREGG & SON, INC.

Framingham, Mass.

MILLWORK OF QUALITY SINCE 1719

There is a Getty operator for every casement window — —

metal



GETTY OPERATOR 4703AF. A de luxe operator for all metal casements. Superior because of its powerful internal gear—an exclusive Getty feature.



GETTY OPERATOR 4706. A popular priced operator for metal casements. Precision made, externally geared, angle driven.

or

wood



GETTY OPERATOR 4703W. For any wood casement. Unexcelled in construction and functional design. Houses a powerful internal gear—an exclusive Getty feature.



GETTY OPERATOR 4715. For wood casements. Economically priced and well constructed—with an external gear and angle drive.



GETTY OPERATOR 4700. Heavy duty, reversible, for wood casements. A horizontal worm-and-gear operator—not handed.

in new construction or as

replacement



GETTY OPERATOR 4706H. The only operator specially drilled to accommodate nearly all metal casements, regardless of the type of operator being replaced.

operators

on any



GETTY OPERATOR 4715. May be used as a replacement on wood casements not carrying operators, or those with stay bars or other obsolete hardware.

remodeling job

H. S.



& CO., Inc.

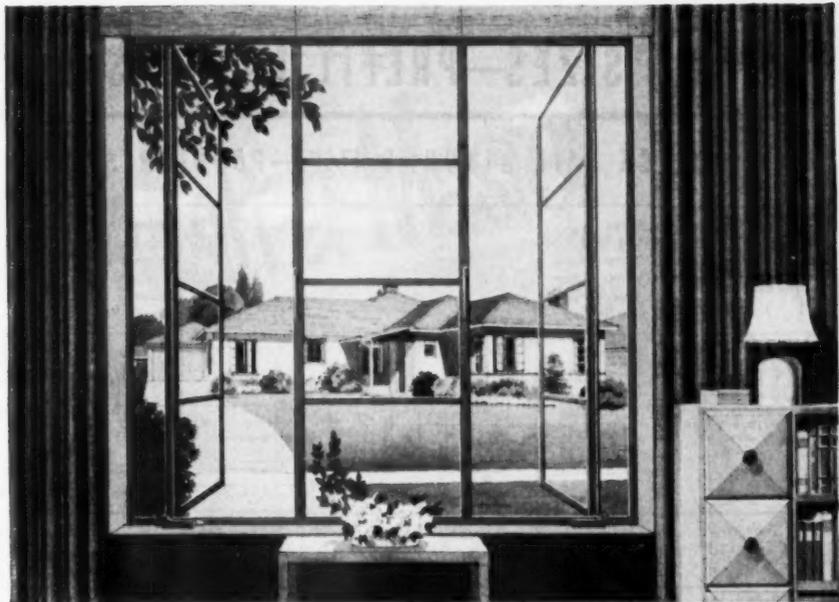
3348 NORTH 10TH STREET

PHILADELPHIA 40, PA.

Getty operators are found on more casement windows than all other operators combined.

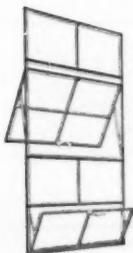
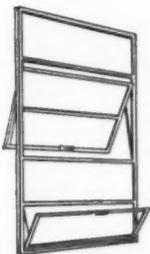
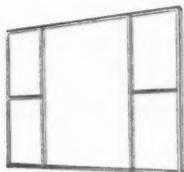
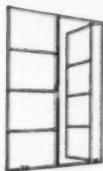
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Lupton Windows

Steel or Aluminum



One . . . or a houseful

Whether your contract calls for remodeling a room or building an entire house, you'll increase customer good will when you install Lupton Metal Casements. Here are windows that will not warp, shrink, swell or rattle . . . that offer a lifetime of trouble-free service. They open and close quickly and easily . . . can be cleaned on both sides from within the room . . . blend with any type of architecture.

Add Lupton Metal Windows to the list of quality materials you install. They are available from coast to coast for residences, schools, hospitals, commercial and industrial buildings, in steel or aluminum. First cost is moderate, upkeep amazingly low. Install Lupton Metal Windows for tops in beauty — tops in low maintenance — tops in long-life.

Lupton sales offices are ready to give you full information. Representatives are usually listed in the Classified Section of Telephone Directories under "Windows — Metal" or "Sash-Steel". Write, wire or phone, you'll get prompt attention.

MICHAEL FLYNN MANUFACTURING COMPANY

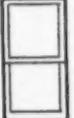
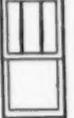
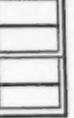
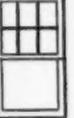
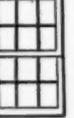
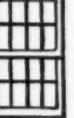
700 East Godfrey Avenue, Philadelphia 24, Penna.

*Member of the Steel Window Institute and
Aluminum Window Manufacturers' Association*

LUPTON METAL WINDOWS

OPENING SIZES—PREFIT LAYOUTS and GLASS SIZES

CHECK RAIL WINDOWS 1 3/8" — POPULAR SIZES and DESIGNS

Prefit Face Measurements	Stiles				Sills				Stiles				Sills									
	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail	Top Rail	Bottom Rail	Vertical Bar	Horizontal Bar	Check Rail		
Windows are made 1/8" narrower and 1/8" shorter than window opening sizes shown below																						
	2 Lt.	Top 3 Lt. W.	Top 4 Lt. W.	4 Lt. H.	Top 6 Lt.	Top 8 Lt.	12 Lt.	16 Lt.														
	1-8x3- 2	16x16			16x 7 3/4																	
	3-10	20			9 3/4																	
	4- 6	24			11 3/4																	
	2-0x2-10	20x14	6 1/2x14		20x6 3/4	6 1/2x 7																
	3- 2	16	16		7 3/4	8							6 3/4x 8									
	3- 6	18	18		8 3/4	9							9									
	3-10	20	20		9 3/4	10							10									
4- 2	22	22		10 3/4	11							11										
4- 6	24	24		11 3/4	12							12										
4-10	26	26		12 3/4	13							13										
5- 2	28	28		13 3/4	14							14										
2-4x2-10	24x14	7 3/4x14		24x 6 3/4	7 3/4x 7																	
3- 2	16	16		7 3/4	8							8x 8										
3- 6	18	18		8 3/4	9							9										
3-10	20	20		9 3/4	10							10										
4- 2	22	22		10 3/4	11							11										
4- 6	24	24		11 3/4	12							12										
4-10	26	26		12 3/4	13							13										
5- 2	28	28		13 3/4	14							14										
2-8x2-10	28x14	9 3/4x14		28x 6 3/4	9 3/4x 7																	
3- 2	16	16		7 3/4	8																	
3- 6	18	18		8 3/4	9																	
3-10	20	20		9 3/4	10							9 1/2x10										
4- 2	22	22		10 3/4	11																	
4- 6	24	24		11 3/4	12							12										
4-10	26	26		12 3/4	13							13										
5- 2	28	28		13 3/4	14							14										
3-0x2-10	32x14		7 1/4x14	32x 6 3/4	7 1/4x 7																	
3-10	20		20	9 3/4	10							7 1/4x10										
4- 6	24		24	11 3/4	12							12										
4-10	26		26	12 3/4	13							13										
5- 2	28		28	13 3/4	14							14										
3-4x4- 6	36x24		8 1/4x24	36x11 3/4	8 1/4x12																	
4-10	26		26	12 3/4	13							13										
5- 2	28		28	13 3/4	14							14										
3-8x4- 6	40x24		9 1/4x24	40x11 3/4	9 1/4x12																	
5- 2	28		28	13 3/4	14							14										

OTHER DESIGNS and SIZES of STOCK WINDOWS and SASH AVAILABLE

No attempt has been made in this catalogue to illustrate or list all of the designs and sizes of Ponderosa Pine Stock Windows and Sash that are available. On this and the following page are shown those that are

most popular. For a complete listing of all standard sizes and designs, including one light sash, transoms and porch sash, write The National Woodwork Manufacturers Association.

National Woodwork Manufacturers Association Data

how to install plastics screening



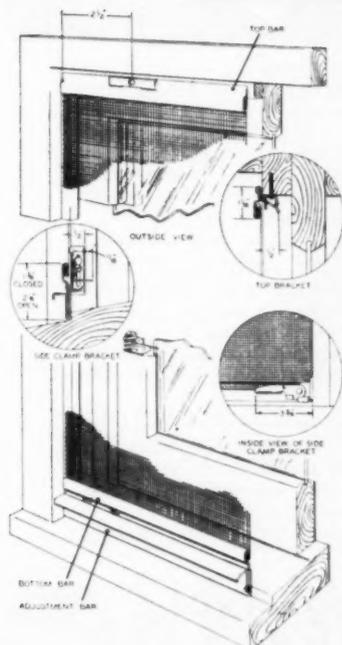
First step in attaching plastic saran screening is to start at top corners to hold material in place. Nail tacks or staples about 1½" apart



Courtesy Chicopee Mfg. Co.

Sides of screening are tacked next, folding under cut edges to make about a ½" hem. Molding strips are then nailed over hem and selvage edges

tension screen installation

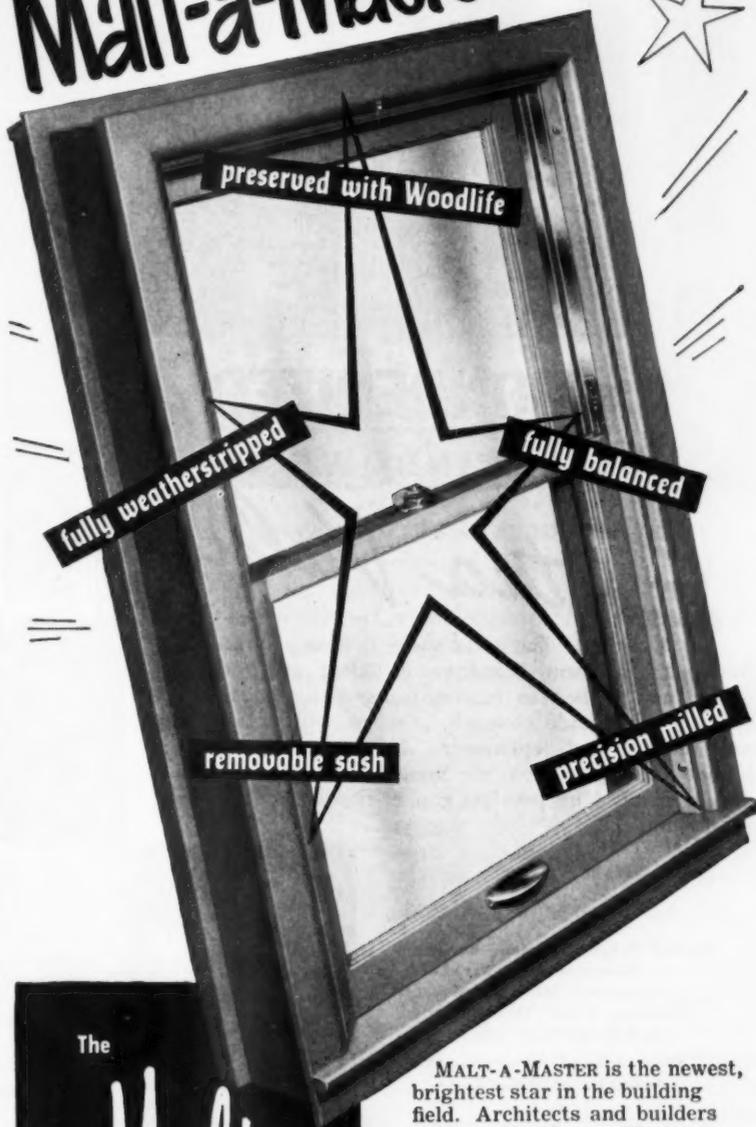


Courtesy New York Wire Cloth Co.

APRIL 1953

★ Let this New Star brighten your building picture!

Malt-a-Master



The

Malta

Manufacturing Company
MALTA, OHIO

Supreme Quality Since 1901

MEMBER PONDEROSA PINE
WOODWORK ASSN., AND N.W.M.A.

MALT-A-MASTER is the newest, brightest star in the building field. Architects and builders who specify MALT-A-MASTER window units find they have a new star salesman . . . for home buyers want the many new advantages that the MALT-A-MASTER now offers.

Remember, the great, new MALT-A-MASTER window unit is fully balanced . . . fully weatherstripped . . . and has removable sash. So hitch your 1953 building plans to this star performer—the MALT-A-MASTER.

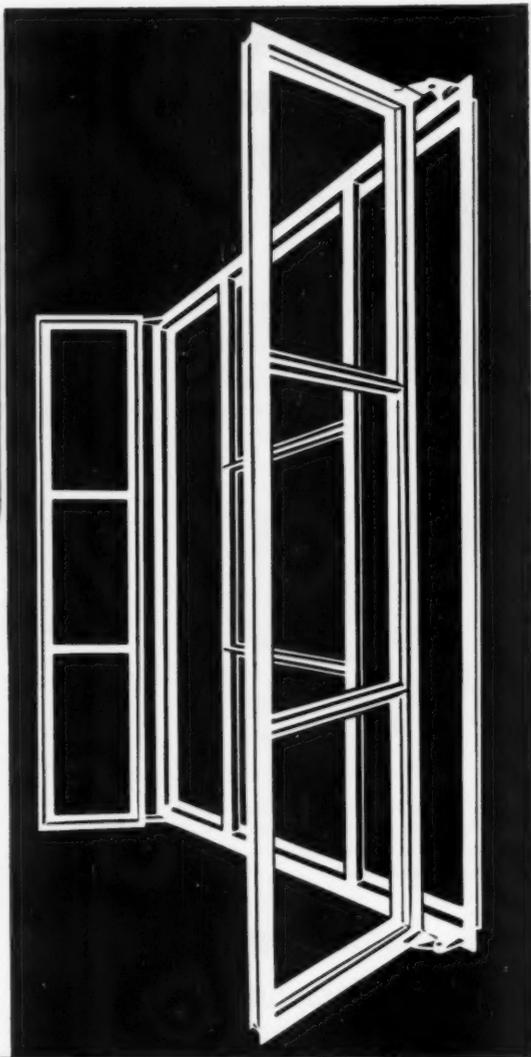
VENTO

the **BONDERIZED**

STEEL WINDOWS OF

Extra Value

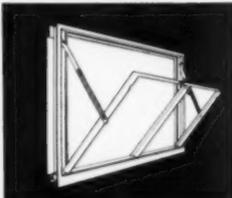
The extra value in Vento Bonderized Residence Casement Windows includes: all casements drilled and tapped to receive storm sash and screens, operator arm guide channels attached with screws for easy removal and replacement, if necessary; ventilator frames constructed from the same heavy sections as the outside frame. This provides greater rigidity and stronger ventilators.



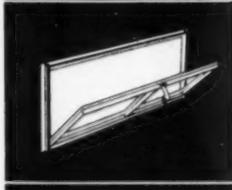
ALSO Vento "Champion" Barred Basement Windows; Vento "Champion" Utility and Barn Windows; Vento "Thrifty" Utility and Special Type Windows.

Write us for full information and name of nearest distributor.

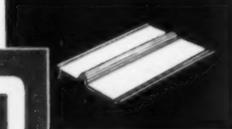
Some desirable territories are open for representatives and distributors. Write for particulars.



NEW IMPROVED VENTO BONDERIZED "CHAMPION" BASEMENT WINDOWS give extra value because of their 14-gauge electrically welded frame, fins welded to jamb for quick installation and double contact with leak-proof watershed sill. A plus value incorporates a redesigned latch which assures positive operation under all conditions.



VENTO "THRIFTY" BONDERIZED BASEMENT WINDOWS give extra value because they are a real economy window especially designed for lower cost housing. Two position ventilation and easy sash removal. Fin flanges at jambs for quick installation. Three sizes, putty type only.



VENTO FORMED STEEL LINTELS give extra value because they permit the use of standard 8" blocks over door and window openings. Of 10-gauge steel, with stiffening crimp in center. Also formed steel lintels for brick constructions.

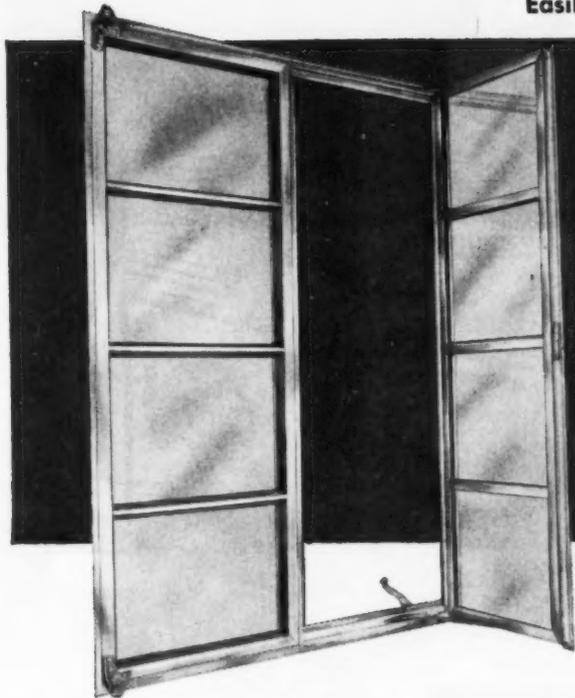
VENTO

STEEL PRODUCTS CO., INC.

247 Colorado Ave., Buffalo 15, N. Y.

Raising higher the recognized superiority of Aluminum Windows . . .

Rustproof • No Painting • Non-Staining
Easily Installed • Trouble-Free • Permanently Beautiful!



REYNOLDS ALUMINUM RESIDENTIAL WINDOWS

CASEMENT, FIXED AND PICTURE WINDOWS

with welded joints for greater strength and weather-tightness...carefully assembled from Reynolds own extruded shapes...outstanding for high satin finish. Protectively packaged two to a carton. Complete accessories include Storm Sash and Screens.

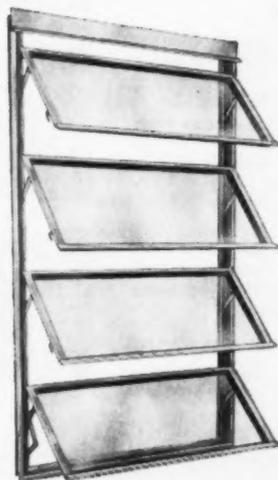
DOUBLE-HUNG WINDOWS

Extra-heavy depth . . . stainless steel locks and dustguards . . . fully weather-stripped. Precision balances (easily accessible tape balances or adjustable spiral balances). Supplied unglazed or factory-glazed with neo-prene. Shipped ready to install.



AWNING WINDOWS

Featuring quick, positive closing and cross-lap weather-stripping in a superbly engineered version of this popular window type. Roto-operator opens bottom vent first. Full-open vents deflect both drafts and rain.



Write for catalog showing all types and sizes.
Reynolds Metals Company, Building Products Division,
2003 South Ninth Street, Louisville 1, Kentucky.

Military needs for aluminum limit supply, but Reynolds is rapidly expanding primary capacity. Check your supplier.



REYNOLDS ALUMINUM

EVERYONE'S SWINGING TO DURALLS

Give customers extra luxury, give yourself extra profits... with Duralls. These screens save expensive on-the-job costs, cost less to buy. Customers love 'em... here's why:

NO LADDERS, HAULING, JUGGLING
Lightweight Durall Tension Screens snap on from inside, seal securely, never need paint... roll up for storage!

INSIDE JOB
No ladders... simply unroll Duralls, snap into place from inside, easy as a shade.

STORE IN A DRAWER
Duralls roll up, slip into handy dust-proof cartons... spend the winter in a drawer or closet corner.

TROUBLE-FREE
Duralls get out of your way fast for window washing, tending flower boxes, etc. Just release two clamps, push Duralls free of windows. Reach even top panes without inconvenience.

NO UPKEEP
Get 'em and forget 'em. Duralls never need paint or weatherproofing, hold their shape in any climate. Pure aluminum, can't rust or stain your house... outlast ordinary screens by years!

SAVE MONEY, TOO
Duralls actually cost less than ordinary screens... no upkeep. Get yours now!



AMERICAN BUILDER

"I'm a little worried, Doctor, it happens every time I mention putting up the screens."



Go up in 9 seconds... from inside!



Roll up for easy storage!



Make window washing a snap!



RECOMMENDED BY A DIVISION OF
Guaranteed by
Good Housekeeping
in all advertising material

DURALL *Tension* SCREENS

West of the Rockies, ask for RYLOCK

Over 4,000,000 Duralls now giving complete satisfaction in every state in the Union. If your hardware or lumber dealer cannot supply you write us for the name of your nearest Durall dealer. New York Wire Cloth Company, 63 Park Street, New Canaan, Conn.

DURALLS have famous Aldura 'Multi-Strand Reinforced, Flat-Edge Screening to Insure Grip-Seal... Patented by New York Wire Cloth Company

Roddiscraft FLUSH DOORS

BUILD LASTING CUSTOMER SATISFACTION

**FOR OFFICE BUILDINGS, SCHOOLS, HOSPITALS,
HOTELS, INSTITUTIONS, APARTMENT HOUSES**



RODDISCRRAFT SOLID CORE Flush Doors

FIRE RESISTANT — withstand a regular fire test for over 40 minutes. Provide extra protection where needed in multiple and single dwelling units and in institutional type buildings.

SOUND RESISTANT — develop an average sound transmission loss of 30.9 decibels — only a little less than specially constructed sound retardant doors of much greater cost.

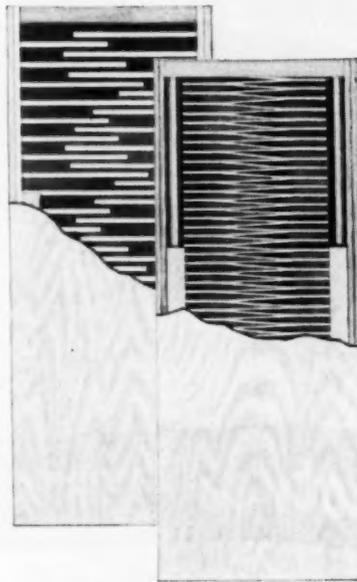
RESISTANT TO ABUSE — core, crossbandings and face veneers welded into a single unit with the inherent strength of true plywood construction.

WATERPROOF — for exterior and interior use. Phenolic resin glue provides two completely waterproof shields over entire area of the door on each side of the core.

STANDARD THICKNESS FACE VENEERS — provide greatest resistance to checking and abuse — permit better matching.

There is a Roddiscraft Door to meet every specification calling for wood doors. Call your Roddiscraft dealer for complete information.

**FOR RESIDENCES, MULTIPLE DWELLINGS AND
OTHER INSTALLATIONS**



RODDISCRRAFT Housemart Hollow Core Doors

Sturdy all wood construction offers these added advantages:

1. Extra strength
2. Greater resistance to distortion
3. Sure protection against core pattern showing through face veneers after finish is applied

Roddiscraft Housemart Hollow Core doors are generously made — contain ample wood at side and top and bottom edges for trimming and the safe anchoring of hardware. Lock blocks on both sides offer a wide choice of hanging positions.

Priced for the residential market— quality built for lasting satisfaction.

NATIONWIDE Roddiscraft WAREHOUSE SERVICE

Cambridge 39, Mass. 229 Vassar St.	Marshfield, Wis. 115 S. Palmetto St.
Charlotte 6, N. C. 123 E. 27th St.	Miami 38, Fla. 255-315 N.E. 73rd St.
Chicago 32, Ill. 3865 W. 41st St.	Milwaukee 8, Wis. 4601 W. State St.
Cincinnati 4, Ohio 836 Depot St.	New Hyde Park, L. I., N. Y.
Cleveland 4, Ohio 2717 E. 75th St.	1756 Plaza Ave.
Dallas 10, Texas 2800 Medill St.	New York 55, N. Y. 920 E. 149th St.
Detroit 14, Mich. 11855 E. Jefferson St.	Port Newark 5, N. J. 103 Marsh St.
Houston 10, Texas 2425 Sabine St.	Philadelphia 34, Pa., Richmond & Tioga St.
Kansas City 3, Kan. 35 Southwest Blvd.	St. Louis 16, Mo. 3344 Morganford Road
Los Angeles 58, Calif., 2620 E. Vernon Ave.	San Antonio 6, Texas 727 N. Cherry St.
Louisville 10, Ky. 1201-5 S. 15th St.	San Francisco 24, Cal., 345 Williams Ave.
San Leandro, Cal. 720 Williams St.	



FIND OUT HOW EASY IT IS TO GET RID OF GAS FUMES WITH A



National SYSTEM

- 6 Systems to Meet Your Needs
- Overhead and Underfloor
- For Present Buildings or New Construction

Designed and engineered to meet your exact requirements. Overhead systems are priced from \$206.25; underfloor, from \$296.45, depending on the number of inlets. Nothing else to buy, every "NATIONAL" System is complete with motor, blower unit, ducts, tubes and service extensions.

"NATIONAL" invites you to write for free literature. No obligation.

THE NATIONAL SYSTEM OF GARAGE VENTILATION

World's Largest Manufacturers of Exclusive Garage Ventilating Equipment
Dept. 701, 318-330 North Church Street, Decatur, Illinois

Gracious Living with

BENDIX

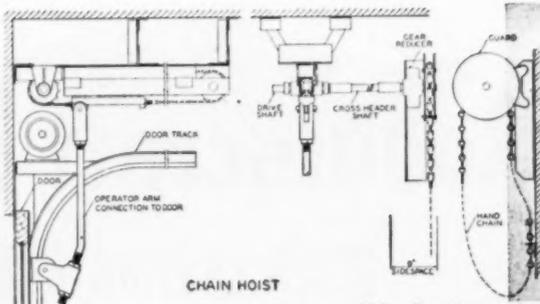
mouldings

At small cost, builders can add great sales appeal through the use of BENDIX embossed and deeply carved moulding. Learn how BENDIX mouldings actually help clinch sales.

Write for details.

BENDIX Mfg. Co.

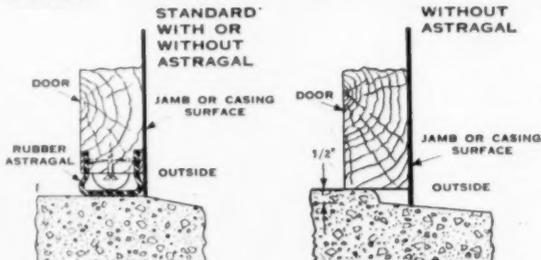
192 LEXINGTON AVENUE, NEW YORK 16, N. Y.



CHAIN HOIST

McKee Door Company Data

Installation details for chain hoist mechanism installed with commercial and other heavy-duty garage doors. Door may be operated either manually or by power-driven mechanism, which may be controlled either from push-button panel or radio device in vehicle



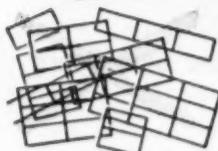
Barber-Colman Company Data

THRESHOLD ARRANGEMENTS

The threshold should be designed to drain water away from the garage door. This prevents water leaking into the building and freezing at bottom of door in cold weather. If a step threshold is used, door should close on the upper level. Threshold footings should extend below frost line

Another THERM-O-PANEL "First" Window Systems

THERM-O-PANEL FEATURES



THE OLD WAY—NINE SIZES, MORE WORK, HIGHER COSTS



THERM-O-PANEL—ONLY THREE SIZES: 1 x 1, 1 x 2, 1 x 3,

TRADE MARK

Cuts Costs! ... Increases Profit!

THERM-O-PANEL, widely known for superiority in the rapidly expanding panel window field, announces a revolutionary new idea—a way to increase profits by lowering costs.

NOW ... Only three basic units, instead of nine, provide unlimited versatility of fenestration—from ribbon-type to full window walls.

NOW ... You need to stock only one-third as many sizes.

NOW ... These three basic THERM-O-PANEL units come fully assembled and individually cartoned ... ready for glazing with standard 45 1/2" x 25 1/2" Thermopane, (standard 42 1/2" x 22 1/2" for ventilated panels).

• Think what this means to you in lower storage and handling costs; in greatly reduced construction costs—complete elimination of on-the-job cutting and fitting ... When costs go DOWN, profit goes UP! Write for full details today.



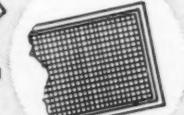
Each unit fully assembled, in individual carton, ready for installing.

Rotate operators, sill-locks, solid brass housings. Inside, positive control to any position.



Double mullions give added strength. Better construction throughout.

All-aluminum screen and frame, need never be removed.



THERM-O-PANEL Division • OHIO PLATE GLASS CO.

Box 496 • Toledo 4, Ohio

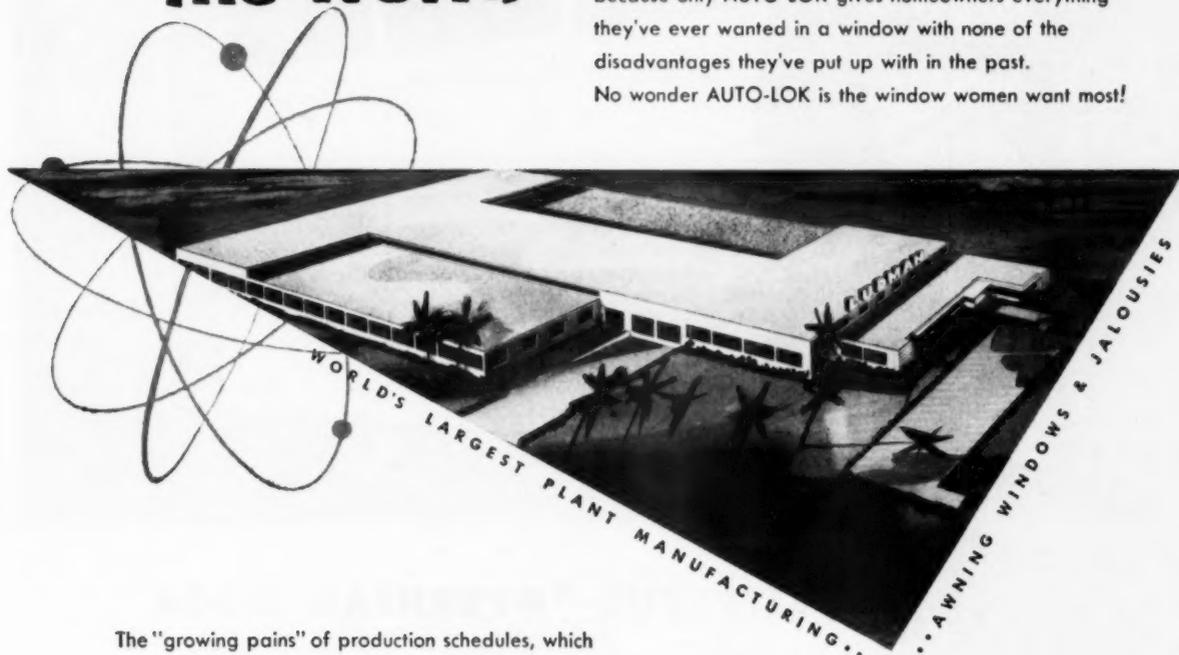
Branches in: DAYTON, FLINT, FORT WAYNE, DETROIT

windows for all the world



Here's real proof AUTO-LOK alone
is changing "For Sale" to "SOLD"!

This huge new plant is the result of tremendous demand for Ludman AUTO-LOK Windows. In a few short years they have forged into national dominance, because only AUTO-LOK gives homeowners everything they've ever wanted in a window with none of the disadvantages they've put up with in the past. No wonder AUTO-LOK is the window women want most!



The "growing pains" of production schedules, which taxed old facilities to the limit, have been solved.

TODAY, Ludman is in a position to continue unexcelled research, design and craftsmanship ... and to provide production without equal.

In sale after sale when competitive chips were down, AUTO-LOK Windows have made the difference. They're delivered on the job completely assembled ... easy to install, no parts to lose, no adjustments to make ... quickly available from your local dealer. See him today!

LUDMAN Corporation

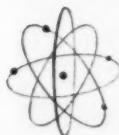
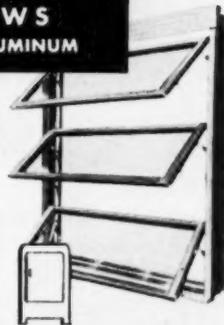
BOX 4541, DEPT. AB-4, MIAMI, FLORIDA

LUDMAN LEADS THE WORLD IN WINDOW ENGINEERING



Tightest Closing
Windows Ever Made

Seal shut like
your refrigerator





for **32** years **THE "OVERHEAD DOOR"**
 has helped home builders to SATISFY home owners

A *satisfied* customer is your best asset. Take no chances! In every house you build, put this beautiful door — easy to open — perfectly balanced — expertly installed — and promptly serviced! It adds to the value of the home, wins instant favor with the owners.

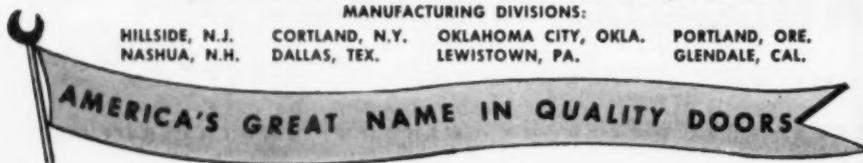


FOR RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL USE

OVERHEAD DOOR CORPORATION, Hartford City, Indiana

MANUFACTURING DIVISIONS:

HILLSIDE, N.J.	CORTLAND, N.Y.	OKLAHOMA CITY, OKLA.	PORTLAND, ORE.
NASHUA, N.H.	DALLAS, TEX.	LEWISTOWN, PA.	GLENDALE, CAL.



Look for this famous trade mark in the yellow pages of your telephone directory.





Narrow section upward-acting garage door adds note of sweeping horizontal lines to over-all building design, particularly appropriate with modern ranch type construction. Wood components are treated with protective coating against fungus, termites, dry rot, and moisture. Good design is particularly important in garage doors inasmuch as their large size makes them prominent and even dominant factors in determining the exterior character and appearance of a home

ATTEMPTS to catalog and tabulate sizes and dimensions of garage doors, their minimum rough opening requirements, wood jamb or metal jamb dimensions, and head-room requirements, break down among the complexity of hundreds of varying specifications of the stock items manufactured by the leading producers of modern garage doors. In addition, most companies also manufacture doors to order to fit nearly any special situation.

The AMERICAN BUILDER completed a survey of the more than twenty leading manufacturers, all of whom cooperated to the fullest in providing information, with the net result that an almost complete lack of "standardization," such as is had in residence windows and doors, is apparent in the garage door field.

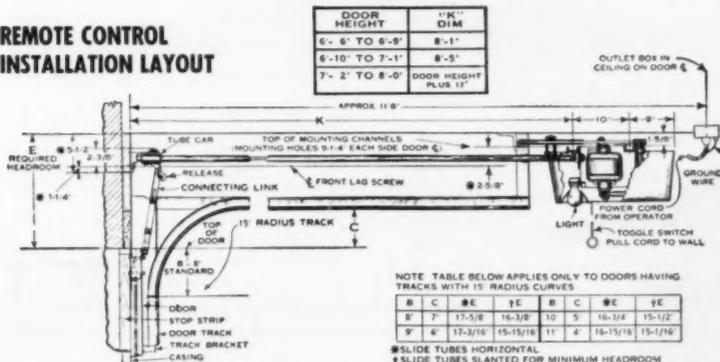
Generally speaking, rough opening sizes correspond to door sizes, on the theory that larger openings

may be brought down to size with the addition of framing materials to fill the opening. Cautionary note here is that such material must be of good quality and heavy enough to support the door and its mechanism properly. Other adjustments in fitting door to framing may be made by hanging door jambs slightly inside door opening proper.

Automatic door opening devices provide a similar complexity of specifications when attempts are made to tabulate or classify such elements as minimum headroom requirements, side room needed on right or left sides, dimensions of lifting mechanism, etc. Individual manufacturers specify size of motor to correspond roughly to weight of door the units must lift, but other measurements vary so greatly that each manufacturer's specifications must be taken into account when an installation is being planned.

(Continued on page 220)

REMOTE CONTROL INSTALLATION LAYOUT



Barber-Colman Company Data

Remote control apparatus operates garage door at momentary contact of single switch to either open or close door. Headroom required for this model is 18". Other models vary in headroom requirements; so it is essential that individual manufacturer's specifications be consulted before ordering such equipment.

GARAGES GARAGE DOORS, HARDWARE, and AUTOMATIC Operators

Garages

Multiple Purpose
Planning and Design
Construction

Doors

Hardware

Automatic Operators

Driveways

FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.

Designed to Please



Take sound design, careful engineering, top quality materials, superb construction . . . and you have the ingredients that make Ro-Way America's most wanted doors for residential garages or commercial buildings.

From every angle, Ro-Way doors are designed to please. Clean, simple lines that blend with and enhance any style of architecture. Famous features that assure smooth, easy-up, easy-down operation: Taper-Tite track and Seal-A-Matic hinges; ball bearing Double-Thick Tread rollers; Power-Metered springs individually powered to the weight of each door.

And every Ro-Way door is built to satisfy. Mortise and tenon joints both glued and *steel* doweled. Muntins, rails and stiles squared up with precision. Sections rabbeted to assure weather-tight joints. Millwork both drum and hand sanded for finer finish. Heavy gauge steel hardware Parkerized *and* Painted *after* fabrication for maximum rust resistance.

So—for every garage or commercial building—specify Ro-Way and be sure of complete satisfaction.

Built to Satisfy

there's a
Ro-Way
for every doorway



Nationwide sales and installation service. See your classified telephone directory for nearest Ro-Way distributor.



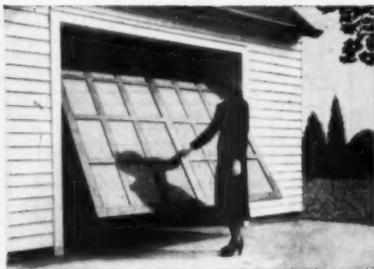
ROWE MANUFACTURING CO.

722 Holton Street, Galesburg, Illinois

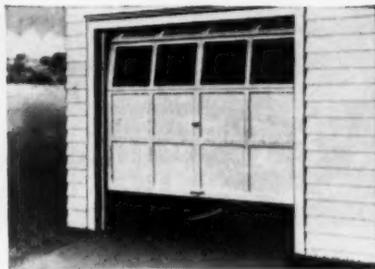
AMERICAN BUILDER



The No. 19, a "self-starter" garage door with "Powermatic" Action, for 9' x 7' openings.



The No. 77 rigid-type, for doors 8' wide x 6'8" high. A popular budget-wise beauty.



The No. 400, for luxury sectional-type convenience at minimum cost; a new winner!

FRANTZ

Sectional and Rigid Type
OVERHEAD GARAGE DOORS
 AND HARDWARE

EASIER OPERATION
MORE SELLING FEATURES
FAST INSTALLATION
MODERN DESIGN
LOW HEADROOM
WIDE RANGE OF SIZES
YEARS OF TROUBLE FREE SERVICE



FEATURING
"GLIDE-O-MATIC"
ACTION
 for sectional-type doors

ONE OF FRANTZ' FAMOUS 14 FEATURES

The new Frantz No. 500, shown at right, has more features than you ever saw in an overhead garage door! Smart in appearance, modern with ranch-style panels, this sensational new Frantz model requires only 6" headroom (for single-width sizes.) Wonderful "Glide-O-Matic" Action provides for a mere turn of the chrome plated handle—and the door glides open as if by unseen hands!



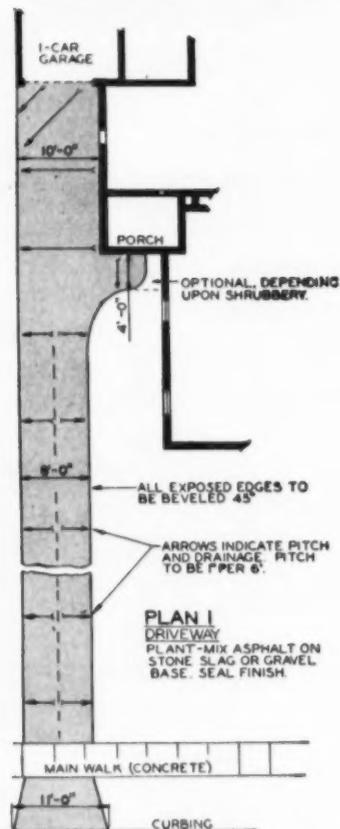
FRANTZ OVERHEAD HARDWARE SETS available in a complete line, for openings up to 18' wide x 12' high, for doors weighing up to 720 lbs. Frantz Hardware Sets give the builder or home-owner unlimited scope in designing garage doors to harmonize with any architectural plan. Write for Catalog No. 107.

AMERICA'S BEST ENGINEERED OVERHEAD GARAGE DOORS

When you see these modern overhead garage doors in action—when you experience their easy-opening and compare their beauty and their many other features—you will understand why so many dealers and contractors prefer FRANTZ.

Here are more than 25 sizes and styles of single and double-width, rigid and sectional type overhead doors. Here, also, for your special convenience, is a selection of Overhead Hardware Sets second to none. Whichever you prefer—complete doors or hardware only—Frantz has the answer. Write for Frantz' New Catalog No. 302.

FRANTZ MANUFACTURING COMPANY • STERLING, ILLINOIS



Courtesy Troyer Driveway Service

Decorative finishes may be added to asphalt driveway by substituting a coat of coloring material instead of the second coat of final sealer. A two-coat treatment with prepared latex material gives a lasting color note to the landscape

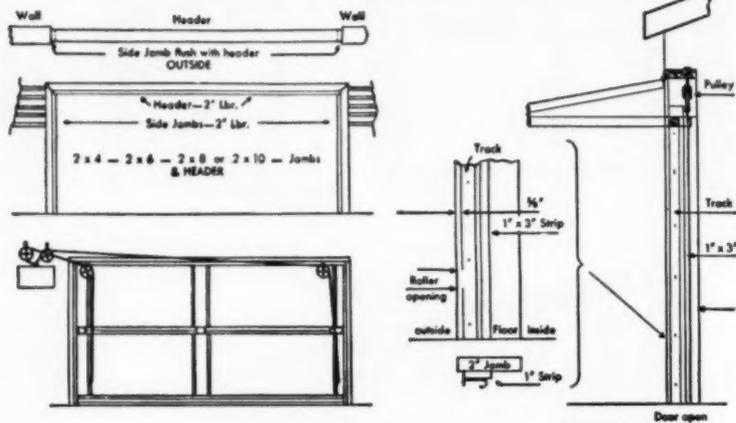
ASPHALT DRIVEWAY CONSTRUCTION

Excavate as necessary to permit installation of a base consisting of crushed stone, slag, or gravel, compacted with screenings or sand with roller weighing not less than 100 lbs. per inch of roller width. Roll until no movement occurs before or after rolls

On this lay hot plant-mix asphalt 2" thick of base material 1½" or smaller in size. On this lay fine topping asphalt, hot mix, ¾" to 1" thick. Roll each course before laying next

Allow curing period of two weeks or more; then treat surface with two-coat application of sealer

Opening Preparations for JACK-KNIFE TYPE Garage Door Jamb and Header Construction



Courtesy R. L. Taylor, Inc.

Jack knife doors are made in two sections. When the door is opened, a canopy is formed on the outside of the building by the two folded door members. The door operates on a track installed on the jamb. Doors are counterbalanced with weight for easy operation, and larger doors are provided with chain hoisting mechanism. These doors are used primarily for non-standard size openings and for situations where the space inside the building must be kept clear but an upward-acting door is also required

Planning and Design

First of all, space for the car must be at least wide enough to permit cars to be opened so individuals may get in and out comfortably when the car is in the garage. Ten feet is about the minimum width for this. It must be at least long enough so a person can get around the car with the garage door closed. That means at least six inches in front and about 18 inches clearance in the rear. With the exception of about three of the largest American passenger cars made, 20 feet is adequate for this. The ceiling or deck above the car should be at least seven feet six inches above the floor. These figures approximate the minimum requirements for housing the family car. FHA requirements in many areas specify minimum inside width of nine feet six inches and length of 19 feet.

Size of the lot and location of the garage determine largely where additional space can be provided in the unit so it can properly fulfill its function as a utility building. If it must be single-car width then the extra space should be added lengthwise. Even though the family may never intend to have two cars, a double-car 20-foot wide unit is desirable where space permits. Variations in providing extra storage and recreational space in garages can take an infinite number of steps in different directions from these two standard setups.

The Urban Land Institute in its "Community Builders Handbook" says: "It is recommended that storage space be provided in garages even where houses contain basements. Pro-

vision of storage space in the garage for tools, garden furniture, and similar articles is desirable. For single car garages, it has been found feasible to add five to six feet to the length of the garage for this purpose. This is preferable to widening the garage as this may require a greater lot width."

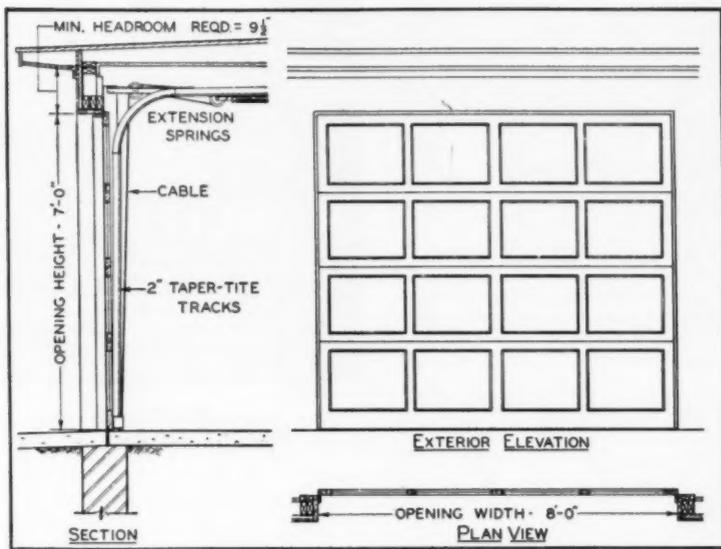
Home buyers definitely prefer the attached garage with direct access to the street. Garages on the rear of the lot are unpopular because of the great amount of paving required and their interference with the use of yards.

When planning the garage, consider traffic between garage and house, garage and rear yard. Consider the housewife shopper with a load of bundles to carry from car to kitchen. A large door opening directly to the rear or side of the garage is usually preferred. When single garages are built wider than the 10-foot minimum inside but less than two-car width, the eight- or nine-foot entrance door for the car should be placed off-center so that maximum storage or work space is allowed at one side.

In addition to considering size of lot, building codes, climate, street traffic, and parking space for visitors, plan for adequate wiring, good lighting, and suitable ventilation to remove gasoline fumes and other odors from attached garages. There should be provision for running water as well as window area for light over work space.

Construction

No matter how well designed the garage is, it can soon start to fall apart without a good foundation.



Courtesy Rowe Manufacturing Company

Minimum headroom requirement for this roll-up overhead acting door is 9½". Other doors of similar construction require different headroom spaces, ranging from 11½" to 21" depending upon size of door, radius of curve of track, and installation of power-driven lifting mechanism, automatic operator or other units

Footings and foundations should always be put down according to local code requirements and climatic needs. Recommended floor for the modern garage is concrete slab at least four inches thick and equipped with drain. Unless the slab is reinforced, the underlying bed should be cinders, gravel, or crushed rock at least four inches deep. Earth should be level and tamped. The concrete slab should be at least two feet in front of the garage to form an apron sloping to the driveway. An expansion joint should be provided between apron and driveway. One popular floor with slab and foundation in one unit is the thick-edge reinforced slab. These are 18 to 24 inches thick at the outside edges with the underside arched to a minimum of four inches at the center.

Fire guards: All attached garages should be separated from the house by a fire-wall and fire-resistant doors which conform to local codes and underwriter specifications. If the house heating unit is installed in the garage, it should be partitioned off to prevent loss of heat. Where door openings occur between garage and house, the garage floor should be lower than the adjoining floor, or the door saddle should be raised a few inches.

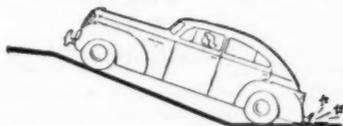
Garage Doors

The garage door is usually the biggest single unit of movable equipment built in as part of the housing establishment. It is also one of the largest and most conspicuous features

of the average home. Designers and builders who desire to please their clients therefore accord the garage door problem much thought and consideration.

A large group of ingenious manufacturers, fully recognizing the problems of garage closures, have developed a host of excellent doors to meet an infinite variety of problems and tastes. There should be no valid reason why any modern garage door should not operate as easily as the front door of the home, and look just as attractive.

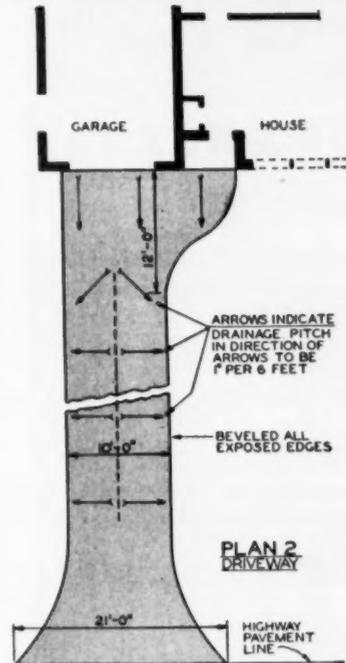
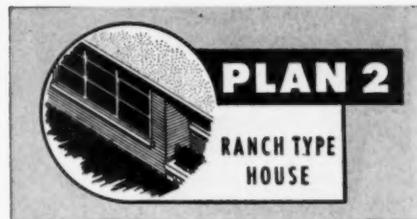
There are about six major types of garage doors on the market in a wide range of prices. These can be roughly classified as the roll-up or sectional door; the swing-up or panel type; sliding door; hinged doors; accordion doors and the two section upward-folding door. Upward-acting doors of one type or another are far



AUTOMOBILE bumpers and tail pipes scrape the driveway unless careful calculation is made on grade variations. A change of not more than one inch per foot within any 10 feet of distance will usually allow adequate clearance in the lead in popularity with builders and home purchasers.

Prime consideration in planning any garage for the installation of an upward-acting door is provision for

(Continued on page 226)



Courtesy Troyer Driveway Service

Driveway in this plan is wider than usual because house faces front on its long dimension, which would otherwise give driveway a "skinny" appearance. Alternate construction would be concrete slab 4" thick of 6-bag per yard mixture

Drainage should be allowed for on the basis of 1" pitch per 6' of drive area. All exposed edges should be beveled 45° to avoid breaking off

In laying out driveway, drive stakes at all corners, curves, and every 30' between. Notch stakes at desired finish grade and attach taut carpenter's chalk line

After excavation, spread coarse stone or gravel with spreader chains attached to truck tailgate. Stone spreaders will be even more accurate. Level off aggregate about 1" below grade and add screenings or sand before rolling. Add more fine material as necessary for thorough binding of aggregates. Check grade of compacted material after rolling; it should be from 2" to 2½" below grade

Cold mix materials will work as well as hot-mixes, but require a much greater curing period. Cold mix is more satisfactory where there may be some lack of rigidity in the base, as it remains flexible longer than hot mix asphalt

THE NEW **calder** *Wedge Tight*
OVERHEAD GARAGE DOOR LINE
has a style and size for every need



CALDER "STURDY" DOOR



CALDER "LEVELINE" DOOR



CALDER "FLUSH" DOOR



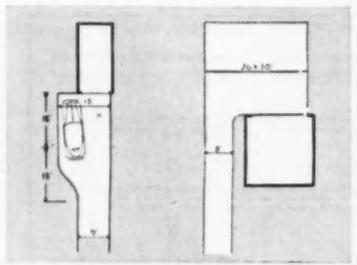
CALDER COMMERCIAL DOOR

Here's a brand new line of doors that has *everything*. Made by a manufacturer with over half a century of designing and engineering experience, the new Calder doors are available in every conceivable size and style for every conceivable need. Special designs and sizes to order and for extra appeal to the customer and extra profit for you—all Calder doors can be equipped with radio controlled electric operators.

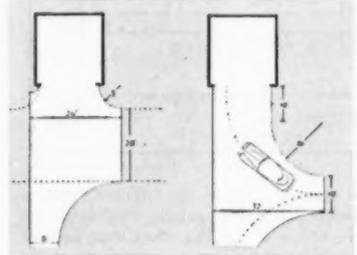
Send for complete information and our new, free, illustrated catalog.



calder
MANUFACTURING CO.
 LANCASTER 12, PENNA.



THE first four designs above suggest various types of parking areas and turn-arounds that can be incorporated as part of the garage driveway where they are necessary or desirable. Where these large



areas are concrete they are also ideal for children's play or game courts. Dimensions shown are minimum. Where the driveway crosses the street curb, it must be flared at a three to five-foot radius.

Drawings Courtesy Fir Door Institute

Don't Get Out of Your Car!

ROBOT OPERATOR
 Unlocks and Opens Garage Door and Turns On the Lights

Touch another magic button in garage or home — your ROBOT Operator electronically closes and locks garage door, and turns off the lights.

When leaving, the procedure reverses

- Exclusive ROBOT Features**
- SAFE FRICTION DRIVE**—Maximum protection to persons and property.
 - FULLY AUTOMATIC**—Merely touch button in car, house or garage to operate.
 - POSITIVE REMOTE CONTROL**—Weatherproof, fool-proof, wear-proof.
 - DOES NOT VIOLATE** Federal Communications regulations.
 - UNDERWRITERS APPROVED**—Meets all specifications and electrical codes.
 - QUIET & DEPENDABLE**—Many thousands in use, some over 20 years.
 - LOWEST COST** of all automatic operators to buy, install, operate and maintain.
 - OPERATES ALL DOORS**—single or double; overhead, tilting, swinging, sliding, folding.
 - WRITTEN GUARANTEE** covering ROBOT Operator and installation for one year.
- FREE CATALOG**—Write Dept. AB
 NATION-WIDE SALES, INSTALLATION & SERVICE
 Write for Complete Catalog — Manufactured by
ROBOT APPLIANCES, INC.
 13165 PROSPECT AVE. • DEARBORN, MICH.

Easy to Install . . . Lasting Satisfaction

ALLITH 50-50 PUSH-OVER GARAGE DOOR HARDWARE

Combine the expertly-designed Allith garage door hardware with your own or any standard door. Result . . . a rugged, easily-operated overhead door that gives full and lasting customer satisfaction.

Quickly installed, standard set fits any opening up to 9' wide x 7'6" high when doors do not exceed 275 lbs. Other sets available for openings up to 10' wide x 10' high.

ALLITH -PROUTY, INC
 DANVILLE, ILLINOIS
 IN AMERICAN BUILDER for Forty-Five Years



RAYNOR DOORS present an All Star line-up of Wood Sectional Overhead Doors

★ Regardless of the size opening—you can depend on the Raynor Mfg. Co. to supply you with a wood sectional overhead door of the finest quality and design.

Raynor sections embody three-way stress construction (mortised and tenoned, steel dowelled and glued), and all Raynor hardware is "protecto dipped" or cadmium plated for complete weather protection.

When you combine these important features with Raynor co-ordinated construction (hardware and wood sections are built complete in the Raynor plant) it is understandable how consistently Raynor fulfills its pledge of top door quality.

Whether it is a residential, commercial or industrial door you can assure the Raynor door owner of

precision finger tip control at all times, thanks to Raynor Graduated Seal, made possible by the patented Raynor universal graduated hinge.

For door installations that demand something really different, Raynor Carved Raised Panels and Flush Doors are unequalled in originality.

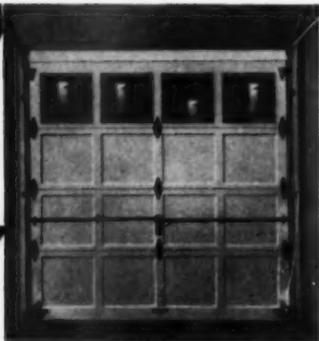


Contact your local Raynor representative or write direct for complete details and colored literature on the Raynor "complete line of wood sectional overhead doors."

RAYNOR MFG. CO.,

Dixon, Illinois

GARAGE DOORS and Electric OPERATORS by WAGNER



"ROLLEZY"—Model 326 Overhead Door (illustrated above) is now made in 32 standard sizes from 8' x 6' 6" to 16' x 7". Here's a top quality, easy operating, low priced door that will win trade and hold it for you.

"GLIDEVER"—Made in a wide range of overhead models and sizes from 8' x 7" to 24' x 24", which enables you to meet all residential and commercial requirements.

"AUTOMATIC DOORMAN" — The magic push button electric operator for opening and closing ANY make or type of sectional overhead garage doors and most makes and types of one-piece doors.

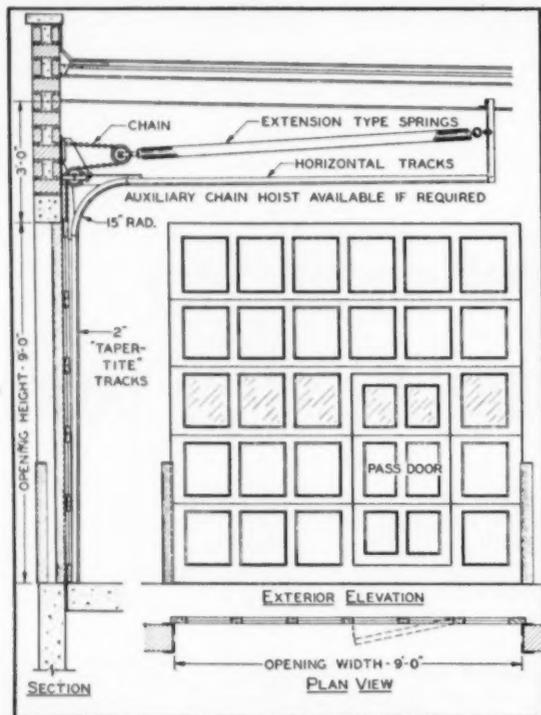
Ask for Garage Door Bulletin AB-53

Also

- Sawhorse Trestles
- Scaffold Brackets
- Roof Brackets
- Folding Ladder Brackets
- Farm Building Hardware and Specialties

Ask for Bulletin ABG-53

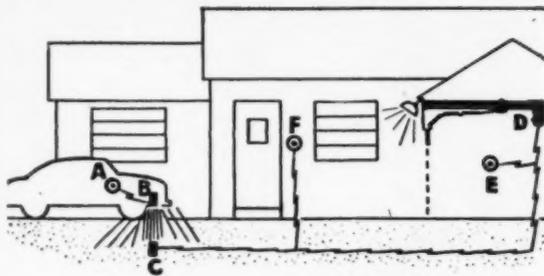
WAGNER MANUFACTURING COMPANY
CEDAR FALLS, IOWA, U.S.A.



Courtesy Rowe Manufacturing Company

Installation details of industrial type upward acting garage door with pass door for individual entering or leaving without vehicle. Spring-powered chain hoist mechanism may also be power-driven and activated by automatic operator

installation details

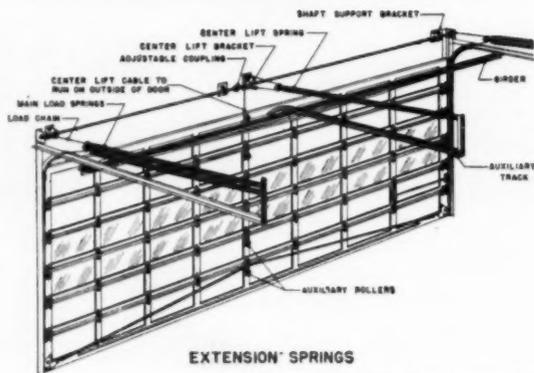


Courtesy Robot Appliances, Inc.

HOW REMOTE DOOR OPERATOR WORKS:

Control button (A) connected to electrical system of vehicle requires simple touch upon entering driveway. Electric coil underneath car (B) radiates magnetism to mercury switch buried underneath driveway. Magnetic switch (C) then closes 12-volt circuit which controls door operate in garage. Electric operator (D) unlocks and opens garage door, may also switch on yard and garage lights. Control buttons in wall panels (E) in house and garage provide manual operation

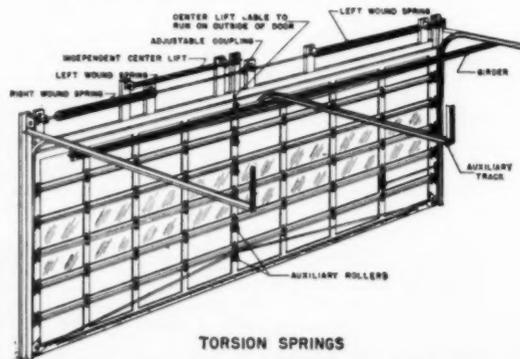
two wide-door installations . . .



EXTENSION SPRINGS

Overhead Door Company Data

Above and below are shown two wide door installations with auxiliary tracks and additional center springs to make overhead operation of large doors simple and easy. Doors over 20' 3" wide are equipped with a steel girder bolted to the horizontal tracks. This forms a support for auxiliary center track which is also supported at rear from ceiling. With extension type springs, above, the lifting cable extends from fixture on bottom rail on outside of door to cable pulley above lintel. With torsion type springs, below, lifting cable is attached to bottom rail on outside of door by special cable fixture and extends to drum on shaft independent of center-lifting spring



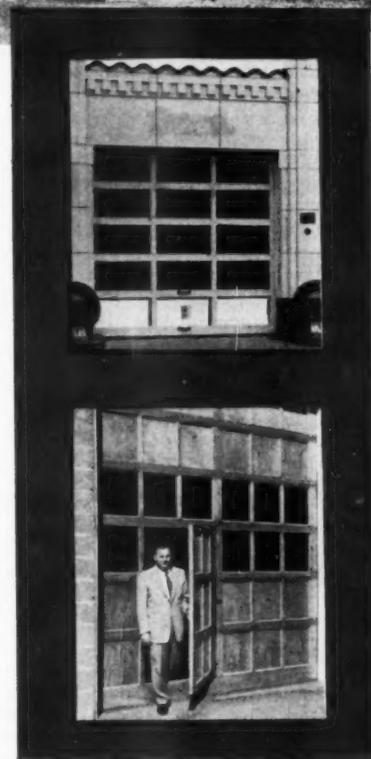
TORSION SPRINGS

Overhead Door Company Data

AMERICAN BUILDER

Of course it's a How-ell-dor

... one of America's foremost names
in garage doors



*There's a How-ell-dor
Electric Operator for
every design door.*



The functional 20th-century styling... sturdy, weather-tight construction... "feather-touch" door action... at popular down-to-earth prices... contribute to make the How-ell-dor sectional Upsweep garage door a mighty attractive sales package.

To satisfy every residential, commercial, and service station requirement... to assure fast, dependable service... there are now 40 How-ell-dor stock sizes and styles. Unusual sizes and designs are a specialty.

**Of particular interest to all builders
and supply dealers are these features
of the How-ell-dor Trade Story**

Ease of Installation

Because it is a prefabricated product... drilled and ready to bolt together... the How-ell-dor reduces guesswork and time-on-the-job to a minimum. An Instruction Sheet, accompanying each door, illustrates the progressive steps involved in the installation process.

Low Headroom Hardware

The Howell Manufacturing Co. has pioneered in the development of the Natural Seven Track that can be installed in 7" of headroom. This innovation eliminates the need for special brackets or auxiliary track... makes possible a considerable saving in material and labor. Hardware for 9 1/2", 6" and 3" low headroom requirements are also available.

Engineering Assistance

Our designing and engineering staff always stand ready to assist you in your particular door problems.

Write to
Dept. A
for FREE
Catalogs

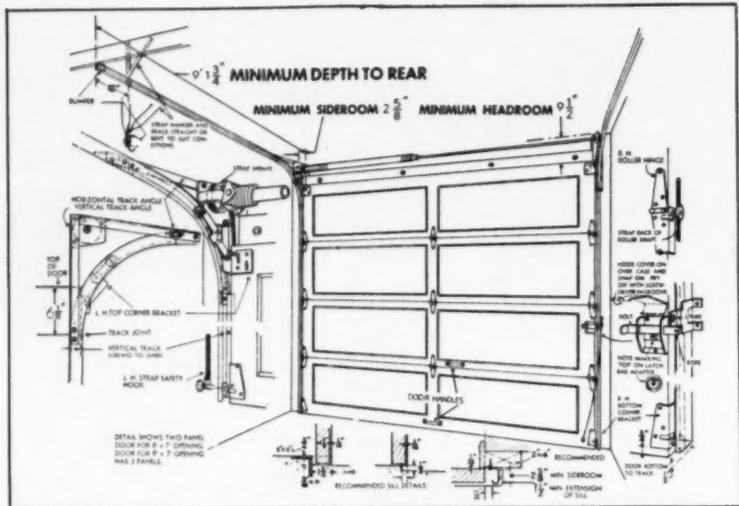


The HOWELL Manufacturing Co.
7200 Hasbrook Avenue * Philadelphia 11, Pa.



(Continued from page 221)
 head room for the type of door to be installed. There are doors available to take care of all kinds of head room situations, with a number on the market which require no head room, some only two or three inches, on up the scale to others which require 15 to 16 inches. Stock sizes range from the smallest listed, which is 8 feet wide by 6 feet 6 inches high, on up to the large full double garage width of 14, 15 and 16 feet. There are sectional roll-up doors available with removable center posts. Thus two or more doors can be installed to close a large opening and if found desirable, the center posts between the doors can be raised up and taken out of the way to provide a clear opening of any width structurally sound.

Manufacturers are bringing remote control by electricity or sound activation to garage doors at prices that often make it practical to install these units.



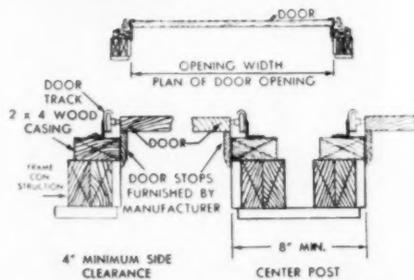
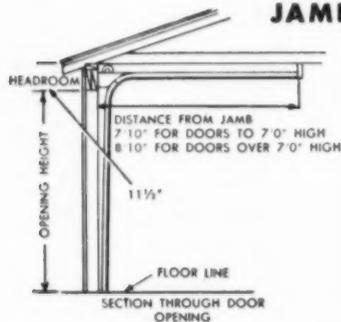
Courtesy The Stanley Works

This 8' x 7' 2-panel door is designed for a standard door opening of the same dimensions. Spring-powered lifting mechanism with minimum headroom of 9 1/2". Similar door for 9' opening has three panels, other features essentially the same

Their desirability and convenience to the home owner stem from the fact that the garage door can be opened or closed by merely pushing a button on the instrument panel or floor of the car. With garages fronting on the streets and being used more extensively as utility and storage struc-

tures, the need for keeping the door closed at all times is obvious. It not only obviates the danger of theft but also closes off from public view whatever weaknesses the home owner may have as a neat housekeeper where the garage is concerned. Because houses are designed to look their best with

JAMB DETAILS - FRAME CONSTRUCTION



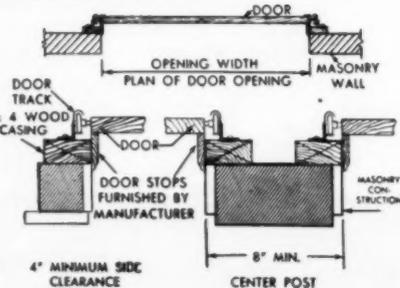
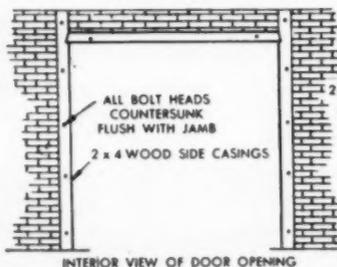
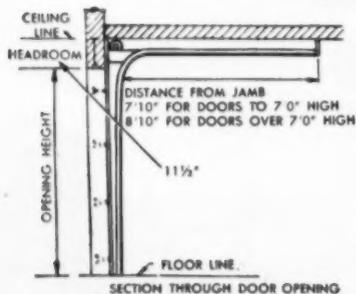
Courtesy Crawford Door Company

For good installation, lumber used in side jambs should be of good quality, straight, securely fastened to the structure, and not less than 1 1/2" thick. Interior track support beam must be supported in center as well as at ends. With this, as with other garage doors, manufacturers furnish

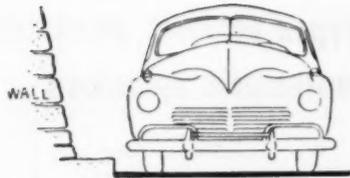
detailed and specific instructions for installation which should be followed to the letter to insure satisfactory door operation. Proper door framing and jamb construction are essential to good operation of modern upward-acting garage doors. Manufacturer's specifications for finished

opening size will vary with frame or brick construction, with wood or steel door frame, and with wood or metal doors. Consult manufacturer specifications and individual requirements before either ordering door or completing door opening prior to installation.

JAMB DETAILS - BRICK CONSTRUCTION



Crawford Door Company Data



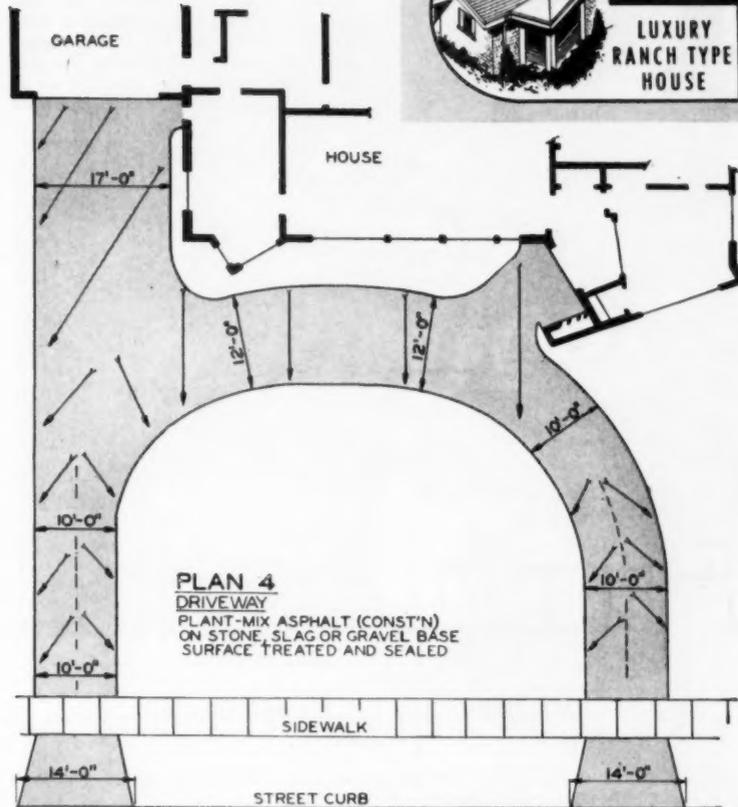
IF THERE is a retaining wall parallel with the driveway, it is desirable to install a low curb at the base to guide automobile wheels so fenders will not scrape the wall

the garage doors closed, it is desirable that they be closed most of the time, whether the garage is attached or detached.

There are several different models of automatic door operators, but basically they consist of a simple sending unit mounted in the owner's car with an individual wave length set to activate the door operator mounted in his garage. His car unit will not open any other doors and no other owner of an automatic set of his type can open his door. These units make contact with a coil imbedded in the driveway or directly with the operating mechanism. There are units that activate the door operators with inaudible sound vibrations and function in the standard manner. Electrical switches inside the garage can be used to open or close the door and, should electric power fail, the door can be opened manually.

Hardware

Proper installation is essential to good hardware and fittings. Follow strictly the manufacturer's specifications and directions on garage door and hardware installation, particu-

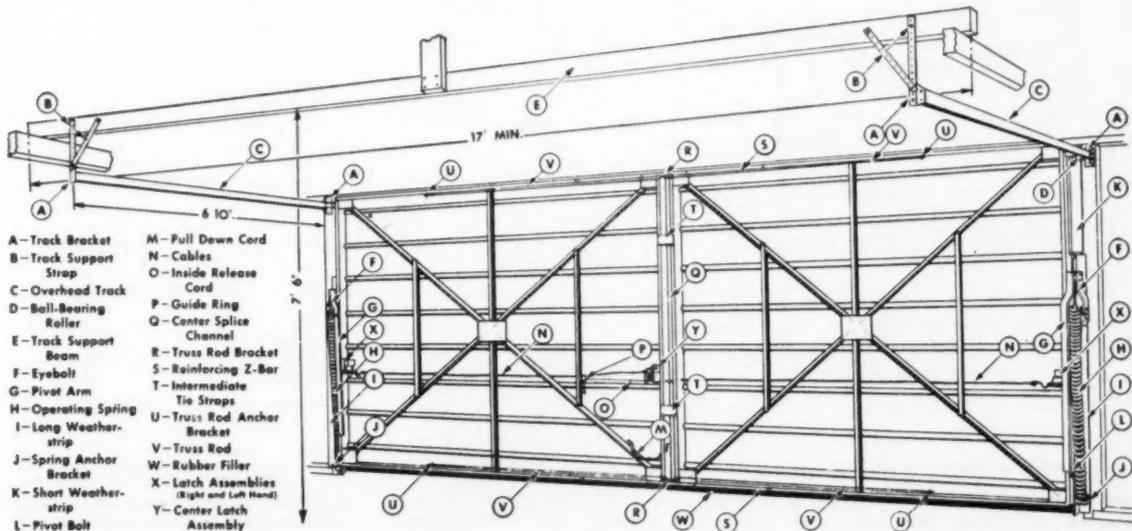


Courtesy Troyer Driveway Service

Rainbow type driveway suggested above is 2' wider in front of house to permit guests access to car without getting onto lawn or flowers. Driveway is designed

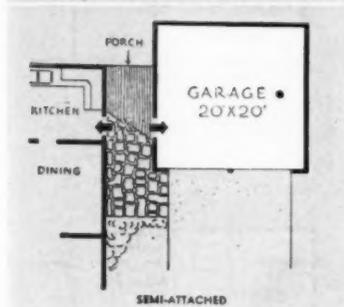
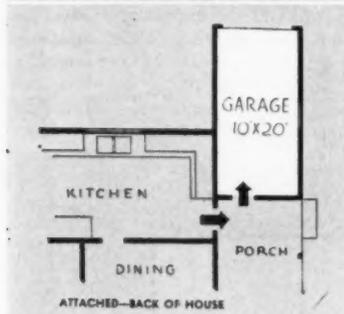
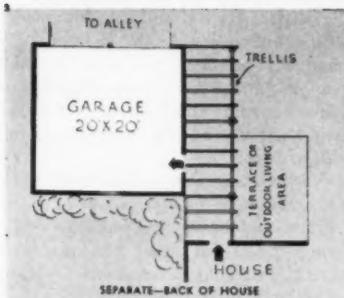
to be in keeping with over-all comfort and luxury built into this home. Two cars may park side-by-side in area in front of garage

interior details, double door . . .



Courtesy Strand Garage Door Division

driveway planning



IMPORTANCE of the location of the garage on the home site should never be underestimated. Easy and preferably protected access to the basement or service portions of the house adds immeasurably to the full use of the garage as a utility building. The driveway should always be planned at the same time the garage is planned. Tricky turns, bad grades and obstructed views of danger spots are some of the results of poor driveway plan-

Driveways

Poor driveway planning results in tricky turns, bad grades, obstructed views, accidents, and grief for the home owner. A one-car driveway should be at least eight feet wide on the straight and 11 feet wide on curves. The minimum width for 2-car drives is 15 feet, and wider is better. If the driveway slopes, there should be a level area the length of the car in front of the garage to prevent rolling if brakes are not set.

With modern automobiles, the smallest outside radius for a curve is 29

Roly-Door helps sell these homes



Roly-Door

Well known Long Island Builder says:

"There is no doubt in the minds of our sales force that Roly-Door has been beneficial in the sale of many of our homes."

Norman Kaye,
Kay Manor, Inc.



The most successful builders know that their public appreciates real value so they build value into their homes. Kay Manor, Inc. is a good example. They tell us "... we have never used a product that gave us as much satisfaction as your Morrison Roly-Door. Every purchaser of a home in our Sylvia Park development has marveled at the finger-tip operation and modern beauty of this Steel Sectional garage door."

The lasting beauty of the Morrison Roly-Doors harmonizes with the modern trend to make the garage a part of the architectural design. It makes garages a very practical selling feature of the home. Roly-Doors can give added value to the homes you build and make your selling easier. Take advantage of their practical Selling Power. Their installed cost is low — their value high.

ONLY ROLY-DOORS GIVE YOU ALL OF THESE ADVANTAGES

- Four Sectional, Overhead Steel Garage Doors.
- Will not rot, warp or absorb moisture.
- Quiet, free rolling, ball-bearing operation.
- Rugged, welded steel construction.
- Low installation cost.
- Conforms to any style of architecture.
- Infra-red baked prime coat.
- Can be painted with regular house paint in your choice of color.
- Pin tumbler locks. Cylinder is keyable to fit home doors.
- Meets all Building Codes.
- Three sizes — 8, 9 and 16 foot.

For complete information see your Roly-Door Distributor or—



Roly-Door Division
Morrison Steel Products, Inc.
644 Amherst Street, Buffalo 7, N. Y.

Gentlemen: We need more information on Roly-Doors for Quality Homes.

FIRM NAME

ADDRESS

CITY ZONE STATE

In Canada, Roly-Door Distributors, Ltd., 1330 Bloor, W., Toronto 4.

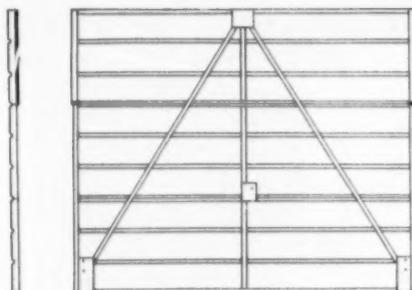
Also manufacturers of Mor-Sun Warm Air Furnaces and Carry-All Truck Bodies

STEEL K-D DOOR

- GALVANNEALED -



SHIPPED LIKE THIS →



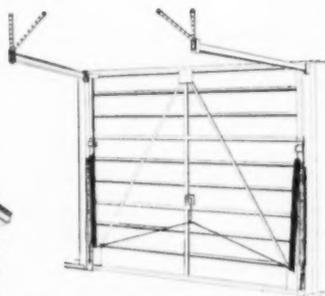
5" X 28" X 96"

← ASSEMBLED EASILY WITH NUTS & BOLTS

NATIONAL BUILDERS SHOW
BOOTH 655



LOOKS LIKE THIS



INSTALLED WITH
TRACK-TYPE HARDWARE

FOR 8 X 7 and
9 X 7 OPENING

Send for Prices

K-D GARAGE DOOR SALES

19830 FITZPATRICK
DETROIT 28, MICHIGAN

K-D GARAGE DOOR SALES

AB

Please send me complete information and prices.

NAME _____

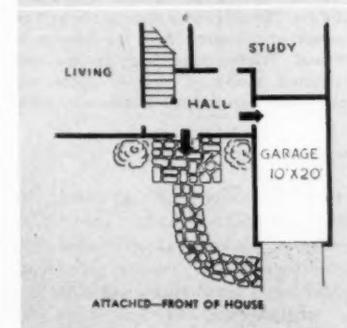
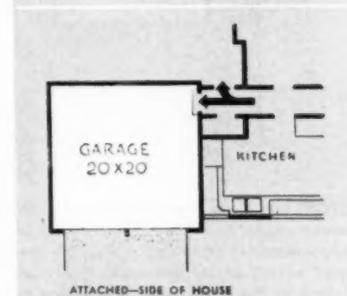
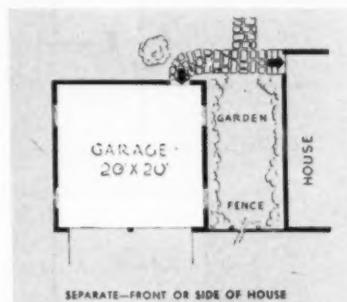
ADDRESS _____

CITY _____ STATE _____

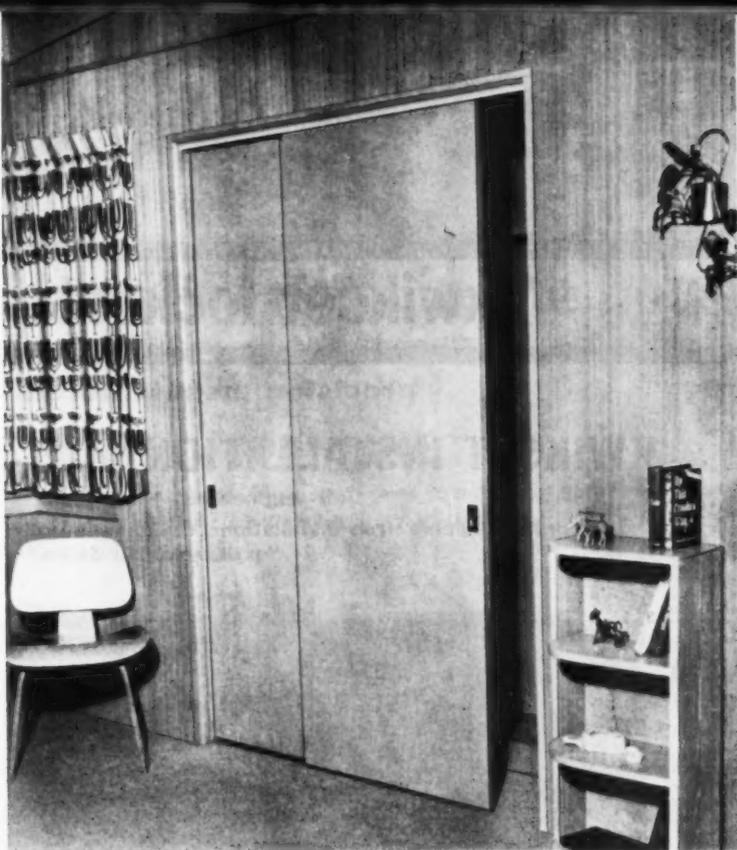
feet, and the smallest inside radius 18 feet. Curb returns at the roadway should be three to five feet in radius.

Sharp dips and sudden changes in grade are other faults to avoid. A change in grade of not over one inch per foot in any ten-foot stretch will allow adequate clearance for car overhangs. Slope the drive slightly to the sides for drainage.

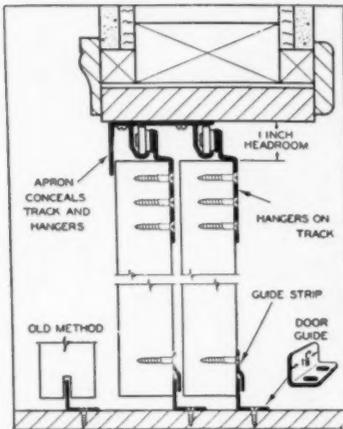
Visitors and guests commonly park near the owner's driveway, and the garage and drive are frequently his first view of the place. This makes it essential that the driveway be in good order and the garage door attractive. Thanks to the ingenuity of designers and manufacturers, owners and builders can now obtain garage doors and fittings which are in excellent taste and make a handsome and inviting appearance.



A one-car driveway should be at least eight feet wide on straight stretches and 11 feet wide on the curves. Regardless of grade there should always be a level area at least 15 feet long in front of the garage to facilitate parking without the danger of the car moving because brakes are not set or because of tampering



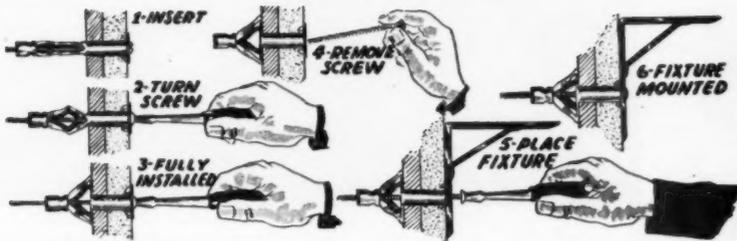
Courtesy Sterling Hardware Manufacturing Co.



Sliding closet and wardrobe doors offer builders many opportunities to economize in construction and make homes more salable. Unit shown has nylon rollers, cadmium plated steel hangers and track. To install, cut track to fit opening and screw to header



... screw anchors save time



Courtesy Molly Corporation

Screw anchors may be used in any type of hollow wall, floor, or ceiling. The anchor expands in back of wall as shown in Fig. 3, above, and remains as a permanent fitting to which brackets, cabinets, or other fixtures may be attached securely. A variation is a plug with gasket to stop leaks in boilers and large pipe

APRIL 1953

HARDWARE AS A SALES AID

Locks

Door Fittings

Door Knobs, Handles,
Pulls
Weatherstripping

Window Fittings

Sash Pulleys and
Balances
Window Handles and Lifts,
Sash Hardware
Casement Hardware
Weatherstripping

Cabinet, Cupboard and Kitchen Cabinet Hardware

Sliding and Special Door Fittings

Bathroom, Closet and Wardrobe Fittings

Garage Door Hardware and Fittings

Specialties and Special Order Trim

Builders' Hardware

Time Savers

FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.

kwikset locksets

precision manufactured

KWIKSET INSTALLATION AIDS

job-engineered • field tested
fast, trouble free installations • elimination of
"expensive call-backs"



ONE HOLE JIG

For use with hand brace with single blade bit or power tools with multi-spur bit.

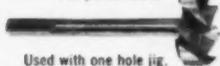


THREE HOLE JIG

For use with power drills or hand brace.

2" MULTI-SPUR BIT

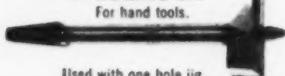
For power tools.



Used with one hole jig.

2" BORING BIT

For hand tools.



Used with one hole jig.

3/8 INCH BIT



For 1/2 inch power drill
Used with three hole jig.

7/16 INCH BIT



For 1/2 inch power drill
Used with three hole jig.

*ADJUSTABLE STRIKE

Patent Pending



Finger tip adjustable feature with positive locking action. Allows for easy adjustment.
*(When available)

MORTISER



For mortising of latch face.

STRIKE LOCATOR

Marks jamb for proper strike location.

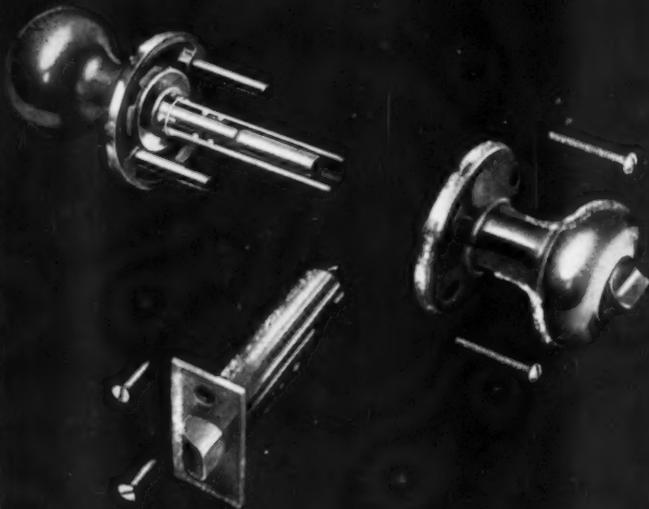


CYLINDER REMOVING TOOL

For cylinder reversing of right and left handed doors.



ONLY THREE
PRECISION-MATCHED COMPONENTS
TO INSTALL ON THE DOOR



for complete

for every door in the house

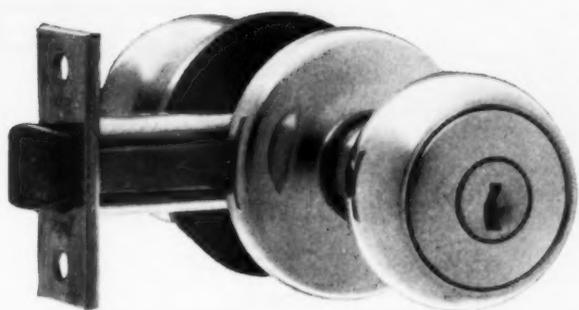
unconditionally guaranteed

KWIKSET "400" LINE

time-tested • consumer approved • over 16 million in guaranteed service
 five pin-tumbler security • simplicity of design
 lasting jewelers' finish



ENTER
 KWIKSET KEYED LOCKSET
 Five pin-tumbler entry locking set
 for all exterior doors.
 Includes inside door knob, outside door knob,
 and keyway. — Inside door knob used
 when lock is installed.
 Each model conforms with American
 National Standards Institute specifications.



#400
 #400DL
 #400FI
 #400DLFI

KWIKSET EXIT LOCKSET #100



for all access doors where key lock is not desirable. Also available with deadlatch No. 100DL.

KWIKSET PASSAGE SET #200



for use on all interior doors where a simple latch is all that is required.

KWIKSET PRIVACY LOCKSET #300



for bedroom and bathroom doors. Outer knob features an emergency entry keyway.

TRIM HANDLE #1333
 made from pressure cast brass.

ROSETTE #63
 made from wrought brass.

DUMMY KNOB #H59-S
 for use on doors where only a pull is required.



KWIKSET VESTIBULE LOCKSET



Inside knob always unlocked, outside knob always locked.

#450 & #450DL

illustrated catalog write:

DEPT. AD

KWIKSET SALES AND SERVICE COMPANY
 ANAHEIM, CALIFORNIA

WORLD'S MOST COMPLETE LINE OF

ALUMINUM NAILS

NICHOLS

ALUMINUM NAILS

RUST-PROOF
STREAK-PROOF

ELIMINATE
PREMATURE
PAINTING

FHA APPROVED

ETCHED FOR
GREATER
HOLDING POWER

ELIMINATE
COUNTERSINKING
AND
PUTTYING



A NAIL
FOR EVERY NEED

Manufactured from aluminum, these nails are rust-proof and streak-proof. They are also etched for greater holding power. They are available in a variety of sizes and lengths to meet every need.

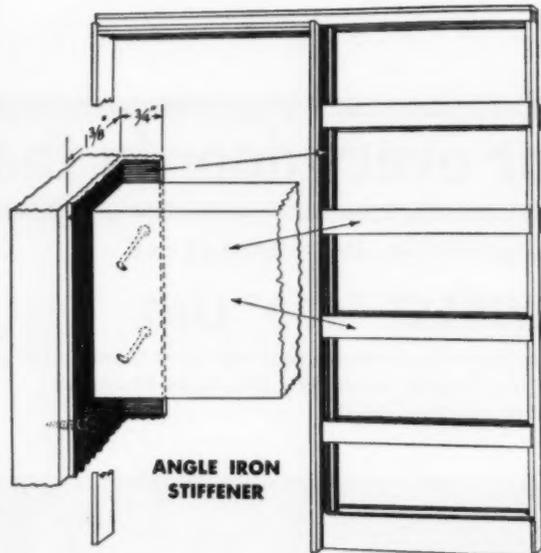
CONVENIENT PACKAGING

Aluminum nails are available in convenient packages for easy handling. They are also available in bulk quantities for those who need them in large amounts.



NICHOLS WIRE & ALUMINUM CO.
DAVENPORT, IOWA

World's Largest Manufacturer of Aluminum Nails



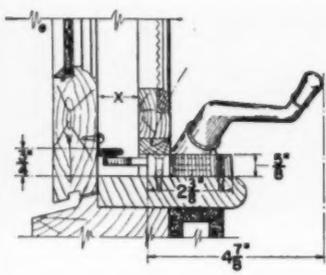
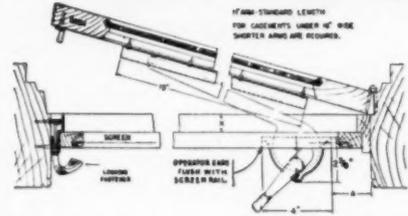
Courtesy Acme Appliance Mfg. Co.

... sliding door frame

Ready-built frames to handle finished doors from 2 to 3 feet in width are reinforced with 16-gauge steel angle iron shown in detail to provide added strength. Dimensions shown are for standard 4" stud plaster walls with outside measurement 5 3/8" out to out. Frames for drywall have 4 5/8" jamb width, and for bullnose 4 3/8" jamb



... casement window operator



Data for installation of right-hand operator on screened wood casement equipped with butt hinges—

DIMENSION A
Minimum 2 1/4" with butt hinges.
Minimum 4" with extension hinges.

DIMENSION X
Minimum 1" with butt or extension hinges.
Maximum 4" with butt hinges. Maximum 2 1/2" with extension hinges.

Courtesy H. S. Getty & Co., Inc.

Internal gear operator, drilled for wood casements. Installation shown is with use of a screen seat. Operator may be installed with screen rail notched out to fit over operator housing. It functions through the screen, or may be used on non-screened windows

AMERICAN BUILDER

... jig speeds cylinder lock installation

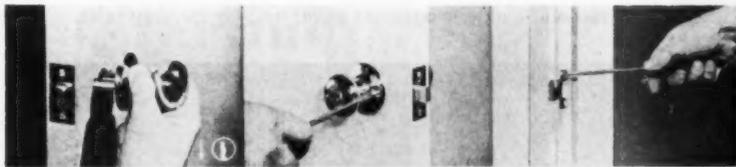


Mark door, set jig and drill two 7/8" holes for latch and spindle

Drill two 7/16" holes for lockset assembly

Mortise for latch face

Three-hole jig shown cuts installation of these cylinder locks to less than five minutes per lock. Designed for use with power drills, precision engineered jig clamps onto

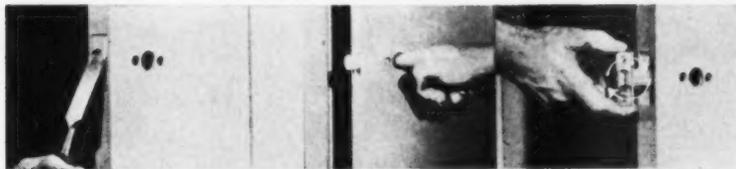


Install exterior knob assembly

Install interior knob and tighten screws

Mortise door jamb and install strike

door with quick turn of wrist, assures proper right-angle holes for good lock fit. Accessory tools include mortiser, strike marker, special drills



Remove excess wood for latch face

Mark jamb with strike locator

Insert latch

Courtesy Kwikset Sales & Service Company

HARDWARE is an important sales aid. Automatic window operators, weather stripping, hardware which makes windows easy to open, easy to clean and efficient in ventilation, are all talking points. Doors hung on good hinges so that they will operate at a touch of the finger, quietly and easily, appeal to the housewife with small children. Push plates and escutcheon plates which make it easier to keep walls and woodwork clean also appeal, as do bathroom door locks which can be opened from the outside so that Junior can't lock himself in.

A house built to shout "quality" as you walk up to the front door gives the prospect a definite let-down when he takes hold of a cheap-appearing door knob, notices an indifferent lock, has trouble opening the door because it doesn't hang well on the hinges, and finds cheap trim used where good

trim belongs. The effect of the finest layout of kitchen cabinets is spoiled when Mrs. Prospect pulls open a cabinet drawer and scratches her hand on a poorly-finished handle.

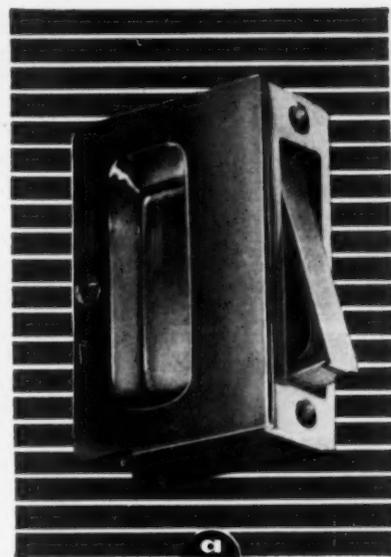
The use of high-quality fittings and hardware, well-designed shelf brackets, casters, latches, snaps, chains and guards for doors, door stops, door closers, bathroom fittings, clothes hooks and other wardrobe fittings, as well as appropriate decorative trim and venetian blind or drapery fittings—all add in a thousand ways to the prospect's appreciation of the value of the property.

While impressed with modern design and efficient layout for comfortable living, prospects generally think in terms of the house built to last a hundred years. It is, of course, easier to point out structural features to a buyer who visits the house when it is

(Continued on page 240)

Announcing
the
New

RITE-PULL NO. 100



The mark of excellence

This fine new Adams-Rite No. 100 combination pull incorporates two flush pulls and an edge pull for use on sliding doors. The flush pulls are deeply recessed and the edge pull is equipped with a spring return.

The pull is easily installed by merely notching the door and is adjustable to fit doors from 1 1/8" to 1 3/8" in thickness. The escutcheons measure 3 1/16" x 2 5/16". A cutout template is packed with each unit.

Like all Adams-Rite quality products, the pull is made of solid brass... is available in seven standard finishes... and is hand polished.

WRITE FOR COMPLETE INFORMATION

QUALITY HARDWARE FOR NEARLY HALF A CENTURY

ADAMS-RITE MANUFACTURING CO.

140 WEST CHEVY CHASE DRIVE, GLENDALE 4, CALIFORNIA, U. S. A.

SPECIALIZED LOCKS AND BUILDERS' HARDWARE

SCHLAGE®

SCHLAGE locks are easy to order

The SCHLAGE Selector Chart takes the guesswork out of ordering. If you don't have the chart, ask for it!

SCHLAGE locks are easy to stock

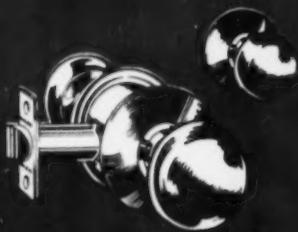
Shelf stock is quickly identified by a simplified numbering system and colored labels which denote type of lock.

SCHLAGE locks are easy to sell

SCHLAGE provides point-of-sale posters, window displays, advertising mats and illustrated circulars for your sales promotion programs. National advertising in architect and builder magazines paves the way for easy sales.

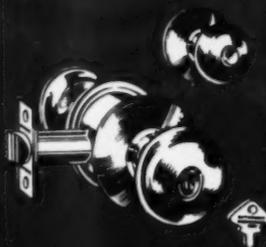
Meet every residential requirement with 4 basic SCHLAGE locks

A10 S Passage Lock (Plymouth Design)



For interior use only. No keying. Available in chrome, brass, nickel, and stainless steel.

A40 S Bathroom and Bedroom Lock (Plymouth Design)



For interior locking. Handles include keys or change door into a passage lock. Can be unlocked from inside by turning the key counter-clockwise. Also available in stainless steel. Always lock to insure privacy.

A30 S Bathroom Lock (Plymouth Design)

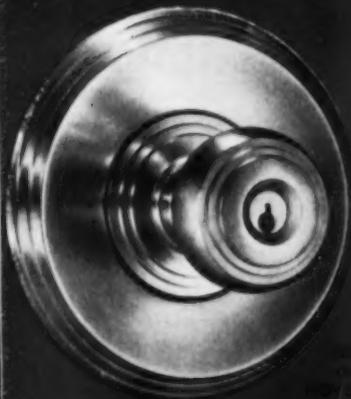


For interior use only. No keying. Available in chrome, brass, nickel, and stainless steel.

A51 1/2 Outside Door Lock (Plymouth Design)



For exterior use. Includes keys and outside handle. Available in chrome, brass, nickel, and stainless steel. Always lock to insure privacy.



ENTRANCE DOOR DISTINCTION

for flush doors

The SCHLAGE standard residential lock becomes a strikingly beautiful entrance set when used with the 6 1/2" mortise and 3" backset lock. Heavy knockers and 3" backset knob may be stocked separately.

for screen doors

The 6300 Screen Door Lock

An easy-to-install, long-lasting unit made of heavy gauge aluminum. Laser-fused for permanent protection against tarnishing and rusting.



SCHLAGE®

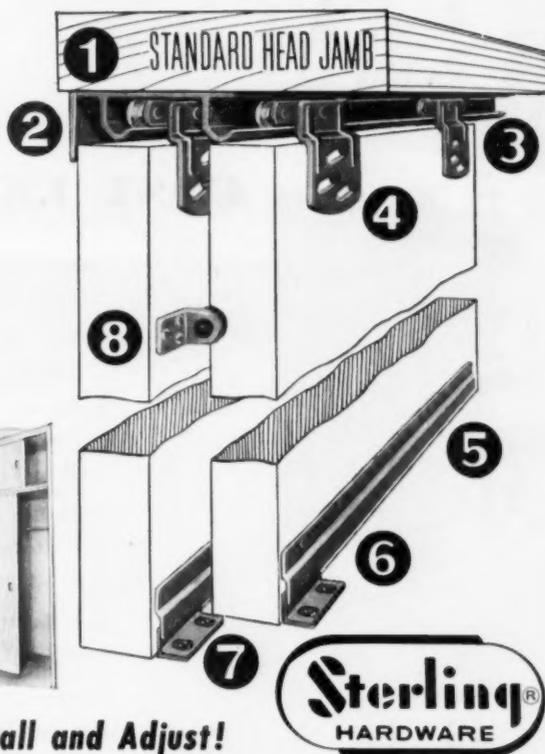
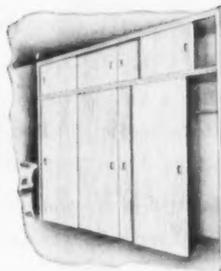
SCHLAGE LOCK COMPANY
140 PARKSIDE - NEW YORK

SCHLAGE... AMERICA'S MOST PREFERRED LOCK

Here's Why

**LEADING ARCHITECTS
AND BUILDERS
USE AND RECOMMEND**

Sterling® 600 SERIES SLIDING DOOR HARDWARE



Saves Time! Saves Money! Easy to Install and Adjust!

- 1** **USE STANDARD DOOR FRAME.** No special header construction needed. No grooving!
- 2** **APRON CONCEALS HANGERS AND TRACK.** May be painted if desired. No extra trim necessary.
- 3** **ONLY ONE INCH HEADROOM REQUIRED.** No need for extra headroom for hardware.
- 4** **ADJUSTABLE HANGERS.** Slotted screw holes make it easy to plumb door with jamb.
- 5** **GUIDE STRIPS** eliminate troublesome grooving of doors. Not visible from the outside.
- 6** **DOOR GUIDES** can be installed after doors are hung. Slotted screw holes permit easy adjustment.
- 7** **NO TRACK ON THE FLOOR** to catch dust and dirt ... floor is clear and clean at all times.
- 8** **DOOR STOP** keeps flush pull on rear door always accessible. Fingers can't get pinched.

Write for Catalog on Sterling line of Sliding Door Hardware for wardrobes, pocket doors, side doors in home garages and other Sterling products.



Nationally Advertised

**IN ALL LEADING
MAGAZINES**

Read by **ARCHITECTS,
BUILDERS and
HOME BUYERS**



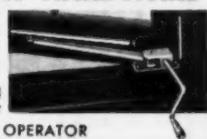
STERLING CASEMENT WINDOW HARDWARE



**No. 190
EXTENSION
HINGES**



**No. 165
PULL-TITE
CLOSER**



**No. 61
CASEMENT
WINDOW OPERATOR**

- ★ See our Catalog in SWEET'S Architectural File and Builders File
- ★ See our display at THE ARCHITECTS SAMPLES CORPORATION New York, New York

STERLING HARDWARE MANUFACTURING CO.

2345 WEST NELSON STREET, CHICAGO 18, ILLINOIS

BUILDERS! *here's the*

COST LESS—INSTALL FASTER



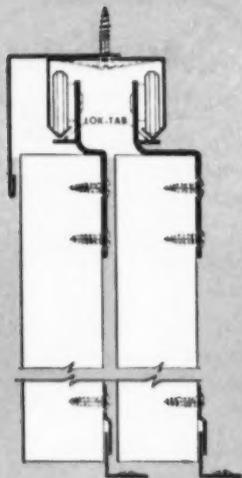
By-passing doors are the ideal doors for closets, cupboards, wardrobes. They increase room space, cost less to install and give an added touch of modern beauty to *any* room.

Leigh Sliding Door Hardware is the ideal unit for hanging sliding doors. Leigh saves you time and money on every installation. It's completely packaged for your convenience and on-the-job protection, eliminating the need for time-wasting delay while additional parts are obtained.

With Leigh, all adjustments and alignments can be made by unhooking doors from the track. Doors lift easily from the *front*. Guide Strip at door bottom eliminates troublesome grooving.

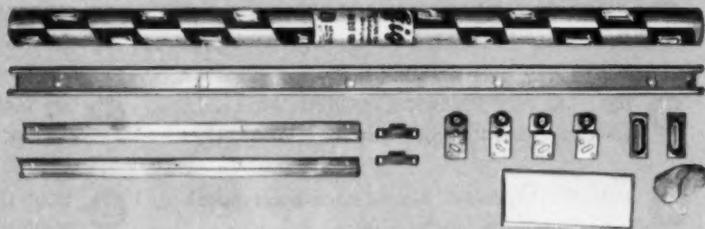
A fascia strip is available for trim at top of opening to eliminate the top trim board and reduce installation time.

Compare, and you'll standardize on Leigh Sliding Door Hardware for low cost, trouble-free operation.

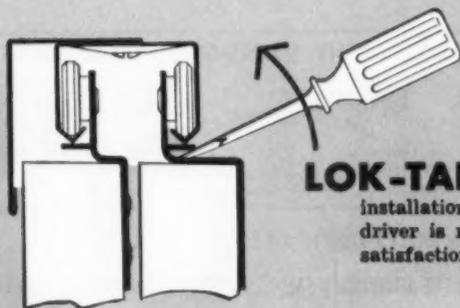


Cutaway view of Leigh Sliding Door Hardware installed on 1 1/2" doors.

Complete parts for one installation in this heavy tube



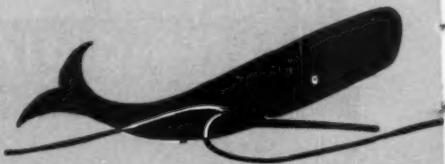
Everything you need for a single installation comes complete in this heavy shipping tube. Parts are zinc-plated heavy gauge steel, track is zinc coated and bonderized. Door pulls are solid brass. Sizes for 2, 3 and 4 by-passing door installations for 3/4" or 1 1/2" doors.



Look at LOK-TAB*

LOK-TAB*, an exclusive feature found *only* on Leigh hardware, is the final installation operation, absolutely insures *doors cannot jump the track*. Only a screwdriver is needed to set LOK-TAB* in place. LOK-TAB* means greater customer satisfaction, an end to troublesome call-backs.

'You get a whale of a lot for your money when you buy Leigh Building Products'



New Leigh Line of

SLIDING DOOR HARDWARE

LOK-TAB*

Leigh's exclusive LOK-TAB* is only one of the outstanding time and money-saving features of this new by-passing door hardware. Leigh Sliding Door Hardware is engineered and built for the finest homes, yet priced so low you'll want it for your low-cost housing projects.

LEIGH OFFERS YOU:

Easier installations, long, trouble-free operation.

"STURDICO" WHEELS

Quiet, easy-rolling wheels designed for years of satisfactory service.

COMPLETE PACKAGE

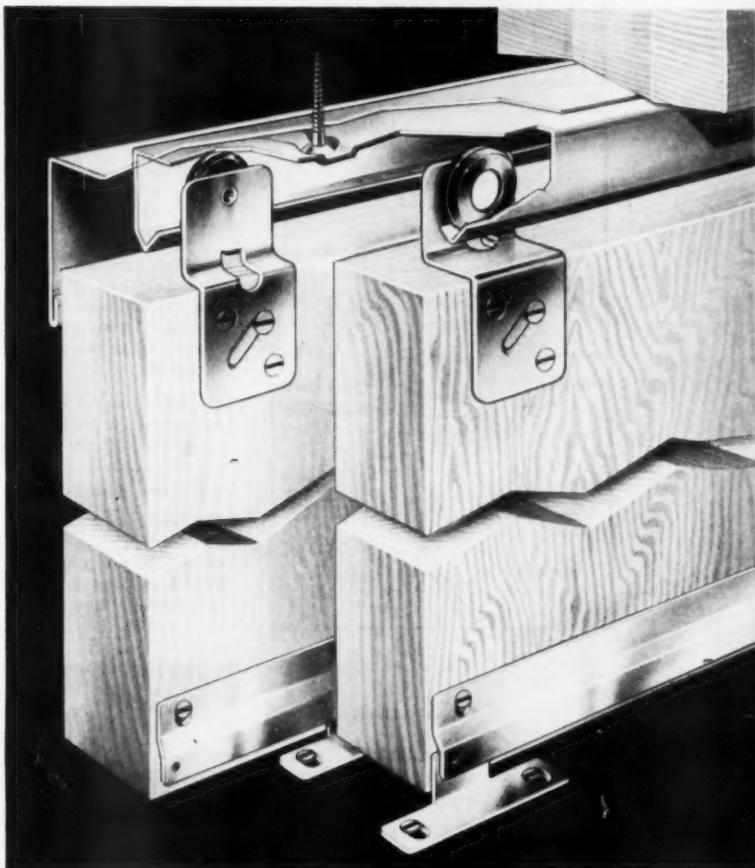
Everything you need for a complete installation in a heavy tube.

GUIDE STRIP

Eliminates grooving doors, saves valuable time, insures smoother operation.

WRITE TODAY for Bulletin 87-L giving full, illustrated information on this outstanding new line of sliding door hardware. For full details on the complete line of Leigh Building Products, ask for Catalog 52-L.

*Patent Pending



The finest **WHEEL!**

The "STURDICO" Wheel used by Leigh is unaffected by oils, grease or moisture, never develops flat spots as do other plastic wheels.

Wheel rides on edges of track, free of dust or dirt. Built-in lubrication insures years of quiet, smooth operation of even heaviest doors.

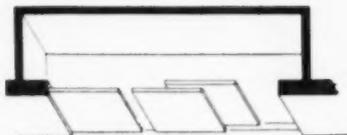
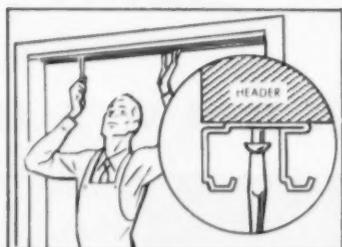


LEIGH BUILDING PRODUCTS DIVISION

AIR CONTROL PRODUCTS, INC.

Leigh Ave., Coopersville, Michigan

... steps in installing by-passing and by-parting sliding doors



Typical installation of by-passing sliding doors in wardrobe closet

(1) To install sliding door, first cut continuous saw slot in center of bottom of door. $\frac{3}{8}$ " deep, $\frac{1}{8}$ " wide.

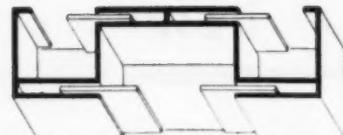
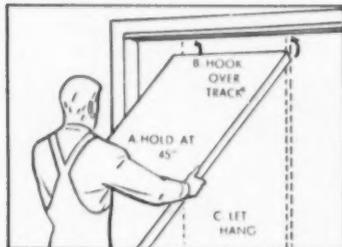
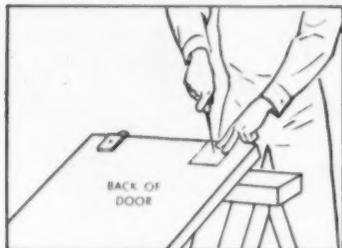
(2) Mount track to header with #8 round head wood screws; front face of track flush with opening.

(3) Locate holes on upper left and right sides of door using template. Mount carriers with one screw only at this point.

(4) With carriers attached, hold door at 45° angle and lift to rest rollers on bottom rail of track. Rear door mounts first in double-door installations. Clearance between door bottom and floor or saddle should be $\frac{1}{8}$ ".

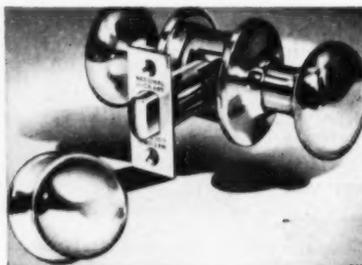
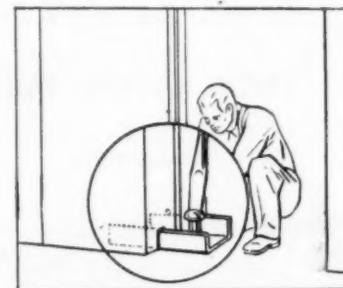
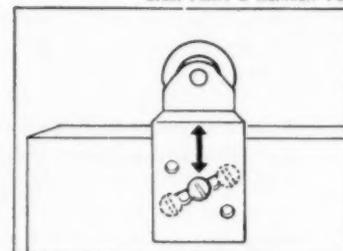
(5) Adjust door for clearance by loosening screw in adjusting slot of hanger. Retighten and add one more screw, leaving third screw hole for future adjustments and anchoring.

(6) Slide door to one side of opening and place floor guide in center of opening so that half of guide is in door groove. Fasten exposed portion, then slide door to other side and fasten remainder.



Typical by-parting sliding door installation in closet wall

Grant Pulley & Hardware Data



(Continued from page 235)
under construction. Nevertheless, explanation of how heavy sill bolts are used to tie the frame to the foundation and how special truss fasteners, wall ties, sheathing nails, window-frame anchors, and other hardware items are used, will help to build appreciation for the "house that's built to last."

Specialties Help Sell, Too

The house with attached garage is now so common that much attention is paid by buyers to the problem of opening and closing garage doors. There are a number of manufacturers who have special hardware for this purpose, the easy functioning of which is a sales point for the builder.

When you use hardware as evidence of value, talk function. Explain that the locks and latches on the various doors were selected for certain special features of operation. Point out that finish hardware was selected to match the decorative scheme of the house, that it is easy to maintain and of a type easily replaced when necessary. Demonstrate throughout that the hardware used is not just "window-dressing" but represents function combined with beauty to increase the livability of the house.

... passage set

SEVEN STEP INSTALLATION

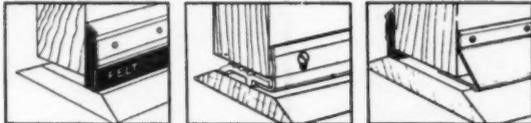


Dull chrome finish is suggested here for lock trim for modern ranch type home, Plan 2. Simple, 7-step installation, and good design add salability and construction economy to the structure. Lockset above is recommended for closet in entry to living room, doors from living room to hall and from living room to kitchen, other closet and bedroom doors

... weather stripping for doors



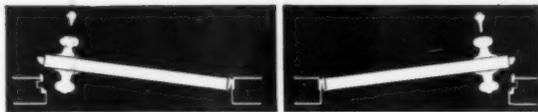
Exposed hook style of felt and metal weatherstripping for door bottom combines with threshold strip to make weather-tight seal. Concealed hook as shown at right, above, may be used with same threshold strip



Plain door bottom strip of felt and metal keeps out under-door drafts. Center, above, metal hook strip without felt makes weather-seal with threshold. Right, above, felt door-bottom strip is combined with drip-cap to provide weather-proof and water-proof seal

Courtesy Macklanburg-Duncan Co.

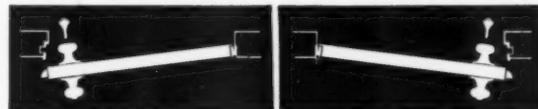
... finish hardware



Right Hand

Left Hand

A door that opens inward and is hinged at right, is a right hand door. A door opening inward, hinged at left, is a left hand door

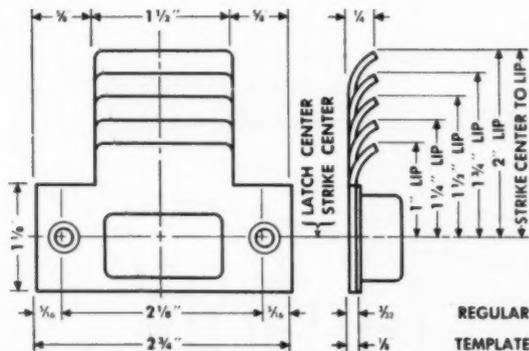


Right Hand
Reverse Bevel

Left Hand
Reverse Bevel

A door opening outward, hinged at right, is a right hand reverse bevel door. A door opening outward, hinged at left, is a left hand reverse bevel door. Hand of pin tumbler locks and many other door fittings should be specified for correct fit

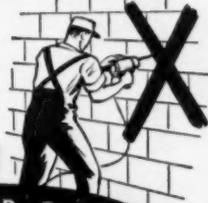
Courtesy Schlage Lock Company



HOW TO DETERMINE SIZE AND TYPE OF BOX STRIKE
Measure from center line of strike to edge of door jamb. This dimension plus 1/4" added for curved lip jamb clearance is size required. All standard strikes are 1 1/4" lip to center. Rabbeted wood doors and rabbeted latch bolts require rabbeted strikes

APRIL 1953

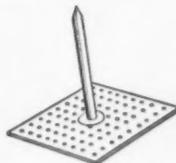
Eliminate Slow, Wasteful Drilling for anchorage to brick, tile concrete, steel



AND CUT LABOR COSTS ON EVERY JOB

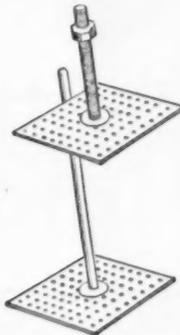
Installing furring strips, metal cabinets and insulation hangers on concrete or masonry walls need not be an expensive problem for you. Today you can eliminate the slow, wasteful job of drilling for anchorage...with Gemco products, and cut labor costs substantially on residential, commercial and industrial buildings. Here are the items which will assure the fast, simple installation so important to you:

with
GEMCO
PRODUCTS



GEMCO ANCHOR NAILS

... for installing furring strips, plaster grounds, carpet strips, etc. Fastened to surface with Tuff-Bond adhesive, they have ample strength to hold reasonable sidewall loads in place securely. Easy to install; anchoring is safe, sure, permanent.



GEMCO ANCHOR BOLTS

... for quick, easy installation of metal cabinets, outlet boxes, dispensers, mailboxes, etc., on concrete, brick, steel, hollow tile, gypsum tile. No drilling or welding.

GEMCO Insulation Hangers

... ideal for installing batt-type insulation on concrete, brick, or metal. Many man-hours saved over welding of wires or installing mechanical fasteners.

Other Goodloe E. Moore, Incorporated, products: **TUFF-BOND** outstanding adhesives... super-strength... waterproof... stick almost anything to anything! **TUFF-TRED** Safety Stair Nosing... for protecting any type stair steps from wear, improving the safety factor, maintaining and restoring stairway beauty.

A few choice distributorships and dealerships are available. Write, 'phone or wire...

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INCORPORATED
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409 Notre Dame St., West, Montreal 11, Quebec



Both Grant No. 16 (for single sliding or bi-parting doors) and Grant No. 17 (for by-passing doors) include these fine features: silent self-lubricating Nylon rollers, complete adjustability, fast installation. Both styles packaged for 4', 5', 6' and 8' openings. Track and parts also available in bulk, of course.

Now available... the quality line
of Sliding Door Hardware...
packaged to size and ready to use!

The hardware was designed to make the customer happy.

The packaging is for you.

We mean Grant's famous Sliding Door Hardware twins, the Sixteen and Seventeen. You know how good they are. They're built to work, smoothly, silently. To last a lifetime. To make satisfied customers.

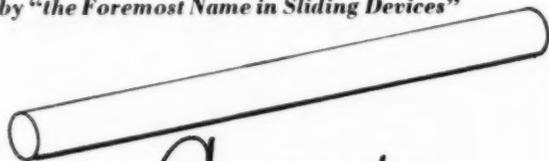
Now pre-packaging makes this fine line easier to handle and faster to install. Each kit includes all the parts needed for each opening, sealed and clean until ready for use. The clear instructions included make installation a matter of minutes. And there's a kit for every need.

See your supplier. Give it a try. We've made it easier for you to use the best.

Have your supplier show you

Grant Sliding Door Hardware . . .

by "the Foremost Name in Sliding Devices"



Grant

Grant Pulley & Hardware Company

31-63 Whitestone Parkway, Flushing, N. Y.

5-Step Plan For Specifying Hardware

Courtesy Lockwood Hardware Manufacturing Co.

STEP ONE: Consists of writing a set of general conditions. This is a statement fixing responsibility with the successful bidder for adequate quantities, sizes, types, and quality, also templates and proper labeling of packages. It places responsibility for the receipt and installation with the contractor or others, as directed.

STEP TWO: Covers the specifications of the physical design of knobs, escutcheons, handles, and other parts, desired for all or various specific parts of the building. The design specified also indicates the type and grade of lock set or other hardware (i.e., whether knob and key, mortise type, cast or wrought knobs,

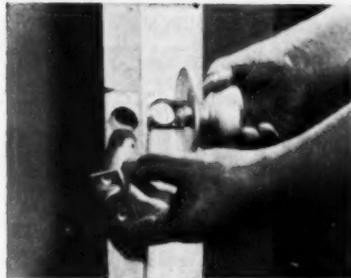
etc.). Selections of design should be made with consideration for appearance, matching finishes, type, and beauty.

STEP THREE: Specifies finish by the use of U.S. Bureau of Standards symbols which include all popular and standard finishes for builders' hardware.

STEP FOUR: Door hardware is specified for each type of door by use of manufacturer's stock numbers, which indicate specific lock sets and butts or hinges or other supplemental items.

STEP FIVE: Specifies window hardware and miscellaneous items. Add here also general specifications concerning master keying etc.

... installation of exterior door lock



After boring holes according to template guide, slip inside knob assembly into hole in door face, followed by slipping lock into aligning tube. Then insert aligning pin to hold these two components in proper position



Apply outside knob assembly, tightening up threaded collars with spanner wrench provided. Bedroom and bathroom locks are locked by pressing button on inside knob, unlocked by turning inside knob



Courtesy Sargent & Company

... how to install invisible hinges

To install invisible hinges, first measure from top of door to top of hinge location. Mark with nail or center punch and then drill holes of required depth as indicated by template. Recess sides smooth as shown in Fig. 4. One half of hinge is then forced into mortise. This should be a drive-fit. Screw holes are located from holes in hinge, drilled, and screws applied. With all hinges attached to door, door with hinges attached is used to locate mortises on frame, where process is repeated with template, mortising, and hinges driven into place. Screw holes are prepared and screws inserted firmly with door held in open position

Courtesy Soss Manufacturing Co.

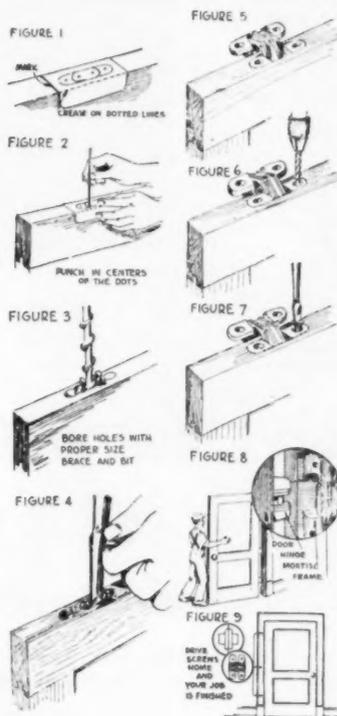
Locks

Exterior doors require security-type locks, generally fitted with pin tumbler lock mechanisms. Front entrances may have handle-and-thumb levers for better appearance. Available for doors of contemporary design is a lockset having a longer backset, placing the knob five to seven inches away from the door edge.

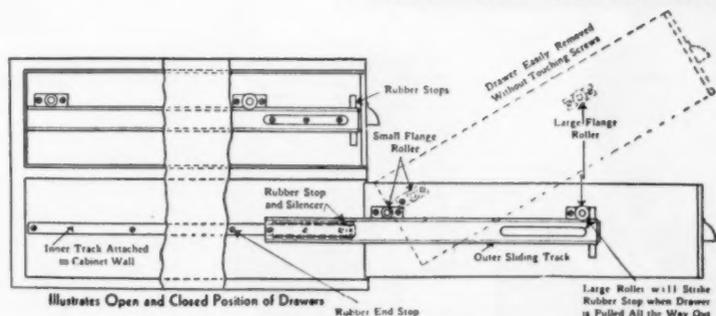
Locks for interior doors are made for both key and push-button operation for privacy in bedrooms and bathrooms. Access may be obtained in emergencies by screwdriver or pin releases. Special knob and lock assemblies are available for closet and locker doors, storerooms, roof decks, French doors, and other one- or two-side locking requirements.

Door Fittings

Door hinges for interior and exterior use—butt hinges—should be selected to match the thickness of the doors. The clearance of the door away from the trim must also be considered, as must the "hand" of the door (right or left hand opening) so that correct hinges for the particular doors are available on the job at the right time and place.



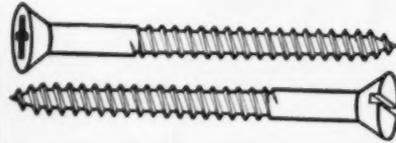
... extension drawer slide



Courtesy Knap & Vogt Manufacturing Co.

Ball-bearing extension drawer slide offers the answer to many a housewife's backache for installations in kitchen base cabinets, closets, wardrobes, and other built-ins. Drawers slide easily, will not fall out when fully extended, lift out for cleaning, and provide easy answer to storage-accessibility problem

**SLOTTED
OR
PHILLIPS HEADS**



SOUTHERN WOOD SCREWS

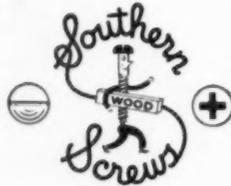
Always Meet Federal Specification FF-S-111a

Whenever it is required that wood screws meet Federal Specification FF-S-111a, builders have a habit of simply using Southern Wood Screws.

For Southern Wood Screws are designed especially to meet this exacting federal specification . . . and provide the most in holding power. Uniformly made of the highest quality materials in one of the most modern plants of its kind, Southern screws are of Government-approved single thread construction . . . accurately machined . . . with precision-milled slots, full size shanks and sharp gimlet points. You can depend on them for maximum holding power.

Wide range of sizes from $\frac{3}{16}$ " No. 0 to 6" No. 30—in steel and brass. Write today for interesting literature on types of wood screws—and for the Southern Wood Screw catalog.

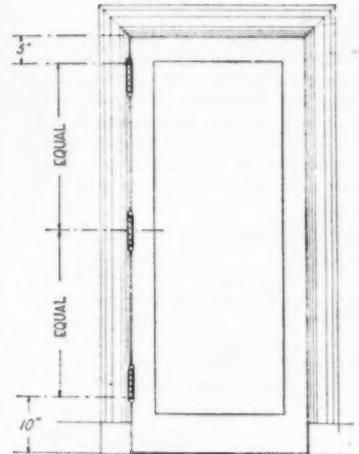
**SOUTHERN SCREW
COMPANY**
118 Rickert St.
Statesville, N.C.



FACTORY WAREHOUSES

4100 Dell Avenue
North Bergen, N.J.
641 Stewart Ave., S.W.
Atlanta, Georgia
325 W. Ohio Street
Chicago 10, Ill.

proper location of butt hinges



Courtesy C. F. Hager & Sons Hinge Mfg. Co.

Suggested rules for locating butt hinges on a door: 5" distance from jamb rabbet to top edge of butt hinge. 10" distance from finished floor line to bottom edge of bottom butt hinge. Center butt hinge evenly spaced between other two. $\frac{1}{4}$ " distance from face edge of door to edge of butt hinge mortise for doors up to 2 $\frac{1}{4}$ ", and $\frac{3}{8}$ " for doors 2 $\frac{1}{2}$ " to 3" in thickness. $\frac{5}{16}$ " distance from stop to edge of butt hinge mortise frame, thus providing $\frac{1}{16}$ " clearance between door and stop.

An extra touch that means so much in selling your new homes



...the Sargent Screen and Storm Door Closer



The little details that prospective home-buyers *unexpectedly* find in a home are great sales-stimulants.

These quiet, powerful, low-cost closers are so quick and easy to install that your labor costs are nothing to worry about. Use the new Sargent Screen Door Closers on screen doors, storm doors, light interior doors, combination and jalousie doors and see how they help sell.

They can be opened to 120° and have a much appreciated hold-open device that lets a housewife pass in and out conveniently with packages, rubbish, etc.

And think of these other features. No changing parts for either right or left hand application. Large tube $1\frac{3}{8}$ " diameter for over 20% greater checking capacity than usual $1\frac{1}{4}$ " tube. Packed with both jamb and soffit brackets.

See the Sargent Screen and Storm Door Closer at your supplier today. Or, for complete details, write us, Dept. 5D.

Sargent and Company

New York • NEW HAVEN, CONN. • Chicago

Builders Hardware and Fine Tools since 1864



5 Points in your favor

for impressing prospective home owners



1 A wide selection of locks and latches in a variety of types, styles and finishes.

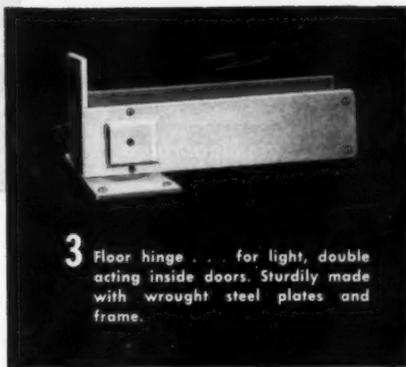
Every top quality builders' hardware installation is a point in your favor. It reflects the extra care you take in selecting products that are constantly used and sometimes abused.

Russwin Builders' Hardware is expertly designed to stay good looking . . . to operate smoothly . . . to provide positive security, if it's a lockset . . . and to last a long time. The extra value of Russwin Quality Builders' Hardware is easily explained . . . fully appreciated.

All Russwin products are labeled distinctly to save your time. They're easy to handle and install . . . attractively finished and sturdily built. Name your builders' hardware need for any type of building and you'll find it in the Russwin Quality Line . . . uniform in size, finish, quality, packaging and price. Russell & Erwin Division, The American Hardware Corporation, New Britain, Connecticut.



2 Night latches . . . a wide range of types and styles . . . brass, ball bearing cylinders provide security, permit master key system.



3 Floor hinge . . . for light, double acting inside doors. Sturdily made with wrought steel plates and frame.



4 Pressure-cast aluminum miscellaneous hardware . . . extra smooth finish of ball burnished brass or satin aluminum. Sturdy. Economical. Rust-proof.



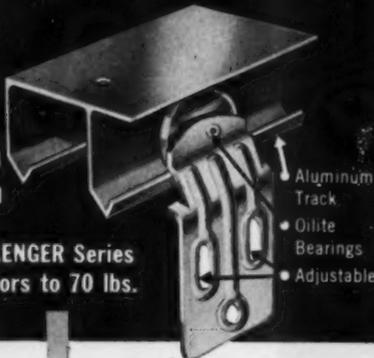
5 Door closers of proven performance . . . from air-controlled types for screen doors to heavy-duty liquid types.

SINCE 1839
RUSSWIN[®]
DISTINCTIVE HARDWARE

"PROVING THE ECONOMY OF QUALITY"

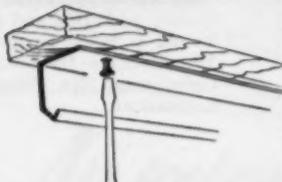
COMPARE the
TOP-QUALITY FEATURES
 and **LOW COST** of the New
HAR-VEY
ROLLING DOOR
HARDWARE

3 models of the New CHALLENGER Series meet all your needs for doors to 70 lbs.



- Aluminum Track
- Oilite Bearings
- Adjustable

Faster Installation



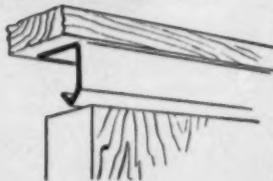
- The top-mounted Challenger track can be speedily installed, requires no mortising.

Smoother Rolling



- V-groove track eliminates chattering
- Oilite bearings are self-lubricating
- RUSTPROOF Aluminum Track
- Durable Nylon Rollers

Less Headroom



- Reduced headroom is only 1"-1 1/4"
- ALUMINUM track serves as trim—no painting necessary

More Convenience

Challenger sets (hardware and track) come completely packaged



Typical low delivered price only \$2.70 list— for completely packaged set for 2' pocket door, including track, hangers, flush door pull, screws.



ALSO AVAILABLE—
CHAMPION SERIES—for doors up to 100 lbs.
HAR-VEY HEAVYWEIGHT—for doors up to 200 lbs.—get all the facts on grief-saving Har-Vey Hardware. Write Dept. AB-4.

METAL PRODUCTS CORPORATION

807 N. W. 20th St., Miami, Fla.

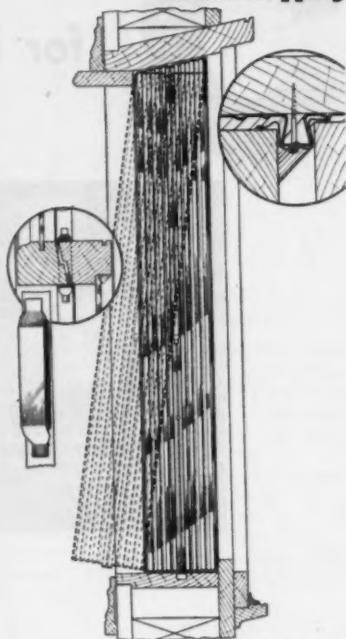
Western Div. (Calmetco, Inc.) • 609 S. Anderson, Los Angeles
 Mid-West Div. (Plymouth Metal Products) • 505 W. Harrison, Plymouth, Indiana



PLAN 4

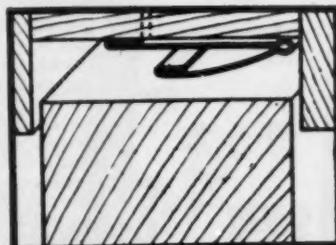
LUXURY RANCH TYPE HOUSE

... window weatherstripping



Courtesy Macklanburg-Duncan Co.

Weatherstrip may be installed in any stock un rabbeted frame either before or after window is assembled. Attach side strips to side jambs. Sash plug shown in detail comes attached to side strips in proper position to prevent air passage at check rail. Jamb section in left circle shows how strip adjusts itself to loose or snug sash



Head strip shown in detail above may be fastened to sash or jamb

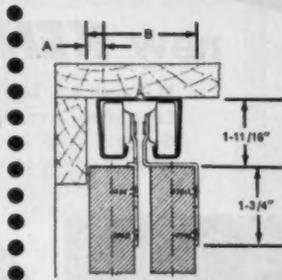


Meeting rail strip may be used on plain check rail as well as on rabbeted check rail shown

ACME BI-RAIL SERIES 3000—for by-passing doors

Rubber Wheel—smooth, quiet operation—requires no lubrication.
Adjustable side mount hangers.
Strong steel double track No. 38 (single track No. 36 also available), stocked in 4, 5, 6, 7, 8, 10 foot lengths.
Only one track for all standard door thicknesses.
Doors cannot jump track.

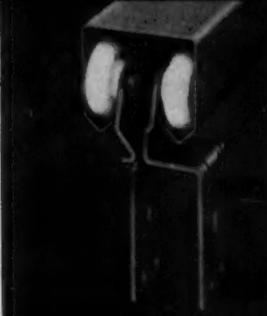
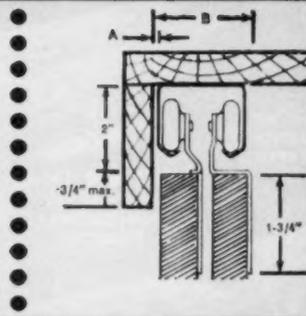
thickness of door	A	B	hanger set numbers
3/4"	0"	2-3/16"	3075-BX
1-1/8"	3/8"	2-15/16"	3125-BX
1-3/8"	5/8"	3-7/16"	3375-BX
1-3/4"	1"	4-3/16"	3750-BX



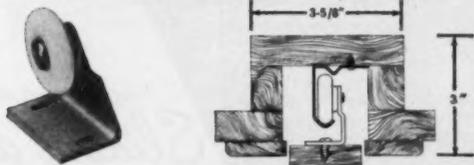
ACME BI-RAIL SERIES 5000—for by-passing doors

Solid Nylon Wheel—large 1 1/2 diameter wheel provides smooth quiet operation.
Adjustable side mount hangers.
Simple installation. Door lifts in and out without removing hangers.
Strong steel double track, No. 5001—stocked in 4, 5, 6, 7, 8, 10 foot lengths.
Only one track for all standard door thicknesses.

thickness of door	A	B	hanger set numbers
3/4"	0"	2-3/16"	5075-BX
1-1/8"	3/8"	2-15/16"	5125-BX
1-3/8"	5/8"	3-7/16"	5375-BX
1-3/4"	1"	4-3/16"	5750-BX



TOP HUNG HARDWARE for Passageway Doors



Nylon Wheel—large 1 1/2 diameter wheel provides smooth, quiet operation.
Top mount hangers No. 53—vertical adjustment with shims supplied.
Simple installation. Door lifts in and out without removing hangers.
Strong steel track No. 54—engineered to prevent jumping track in pocket.

A COMPLETE LINE OF SLIDING DOOR HARDWARE.

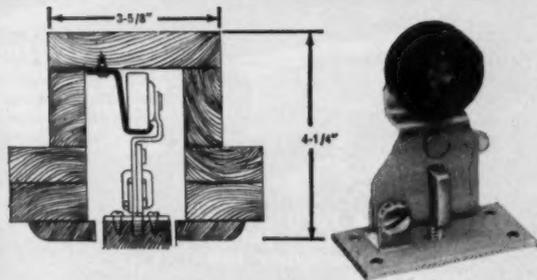


GUARANTEED FOR THE LIFE OF THE BUILDING.

ACME APPLIANCE MANUFACTURING CO.
35 South Raymond Ave., Pasadena, Calif.

ACME TYPE "Z"—for Passageway Doors

Rubber Wheel—smooth, quiet operation—requires no lubrication.
Adjustable top mount hangers, No. 41.
Quick adjustment by means of threaded eyebolt. Set screw locks hanger to plate. Cannot get out of adjustment.
Strong steel track No. 42—automatically centers in header—available in exact lengths for 2'0", 2'4", 2'6", 2'8", 3'0", 3'6", 4'0" doors.
Door cannot jump track.
To rough in for frames, allow 7" 1" in height by 2" plus twice width of door.
Strong Frame—heavy, steel angle stiffeners Nos. 61 and 62.



ACME SHEAVES

For Sliding Sash



No. 702

No. 700 Track

Sash can be removed for cleaning.
Weep holes in track permit drainage.

Aluminum Track No. 700—stocked in 4, 5, 6, 7, 8, 12 foot lengths.
No screws to install.

For Showcase



No. 750

Can be used with No. 700 or any standard T Track

ACME No. 103 FLOOR GUIDE



Dimpled to reduce contact with door to a minimum.
Slotted to allow removal by merely loosening the screws.
May be installed after doors are hung.
Included with all series 3000 and 5000 hardware.

ACME No. 105 GUIDE STRIP



Eliminates grooving of doors.
May be installed without special tools.
Available in 24, 30, 36, 48 inch lengths.



new **KENNATRACK** goes up fast!

Millwork has been eliminated... Installation is easier... Performance is finer than ever, and prices are lower! That's why Kennatrack's newly designed track is the builder's best bet—by far. Select from the complete packaged line, now available from your Kennatrack dealer.



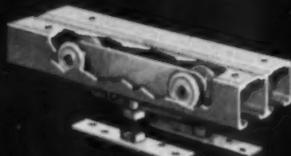
SERIES 250-A For 3/4" kitchen cabinet doors. Exclusive step-up design hides hardware.



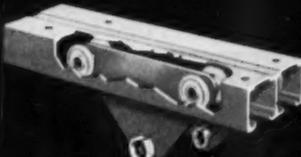
SERIES 600 Double track for 1 3/8" and 1 1/4" wardrobe by-passing doors... adjustable hangers.



SERIES 650 Double track for 1 3/8" and 1 1/4" wardrobe by-passing doors. Minimum headroom required.



SERIES 700 Deluxe double track for 3/4" through 1 1/8" wardrobe by-passing doors... adjustable hangers.



SERIES 750 Deluxe double track for 3/4" through 1 1/8" wardrobe by-passing doors. Extra strong hanger installation.



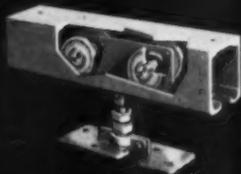
SCOTTIE SERIES High quality, low-cost sliding door hardware for 3/4", 1", 1 1/8", and 1 3/8" by-passing doors... adjustable hangers.



SERIES 300-A For 3/4" through 1 3/8" open, and closed pocket doors. Minimum headroom required.



SERIES 350 For 1 3/8" closed pocket doors—adjustable hangers. Popular with frame manufacturers.



SERIES 400-A For 1 3/8"-1 3/4" closed pocket doors. Deluxe track with heavy duty, ball bearing axles.

KENNAFRAME



SERIES 800 Prefabricated warp-proof, all-metal frame for closed pocket installations. Series 400-A track already installed.

SERIES 900 Prefabricated, low-cost Scottie wood and metal frame. Series 350 track already installed.

largest exclusive
*Sliding door
hardware*
manufacturer

ACCESSORIES



FREE BUYER'S GUIDE takes the guesswork out of sliding door installation!



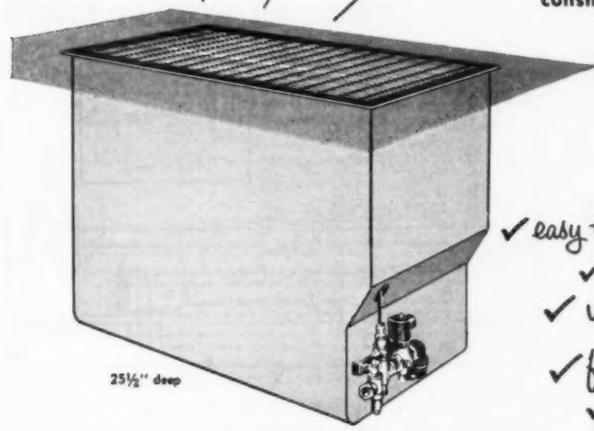
See your supplier, or write Kennatrack Corporation, Elkhart, Indiana



automatic
**Sales Clincher for the
 EASY-TO-SELL HOME**

TEMCO *automatic gas floor furnace*

With TEMCO Gas Floor Furnaces you can keep construction costs at a minimum while adding a nationally recognized automatic heating system to your low-cost, Easy-to-Sell Homes.



25 1/2" deep

HERE'S WHY!

- ✓ *easy to install* — Fits right into the floor without need of basement.
- ✓ *compact* — Shallow construction, just 25 1/2" over-all.
- ✓ *versatile* — Operates with equal efficiency on manufactured, natural, or bottled gases.
- ✓ *functional* — Engineered for maximum heat.
- ✓ *efficient* — Porcelain Enamel Heat Chamber on Series 1 models has full 20 year warranty.
- ✓ *economical* — Tens of thousands now in use prove you can guarantee the prospective home-owner that its operation will be thrifty beyond his expectations.
- ✓ *automatic* — Available with completely automatic controls.



Slab foundations, upstairs rooms, garden apartments, rambling ranch houses... you can build to heat them economically and efficiently with TEMCO's highly versatile Automatic Gas Wall Heaters.

For the complete story of TEMCO Gas Floor Furnaces and Wall Heaters fill out the coupon below:

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• **TEMCO, Inc., Division B-522**

• **Nashville 9, Tennessee**

• Please send catalogue, A. I. A. specification sheets and full information on TEMCO Automatic Gas Floor Furnaces and TEMCO Automatic Gas Wall Heaters to:

• Name _____

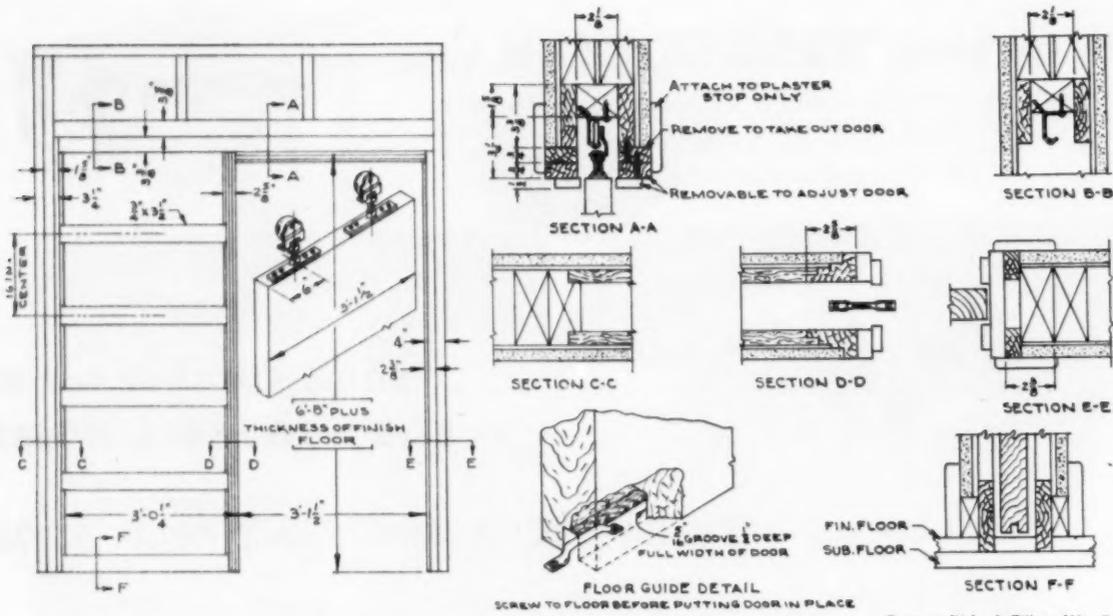
• Firm Name _____

• Address _____

• City _____ County _____ State _____

•

 **TEMCO, inc.**  
 NASHVILLE, TENN.
 BUILDER OF OVER 1,250,000 GAS APPLIANCES



Courtesy Richards-Wilcox Mfg. Co.

sliding door installation details

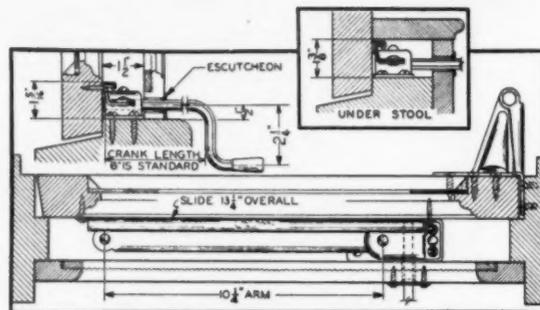
Details of installation of sliding door, showing fittings and hardware together with ready-built wall panel framing for conventional 4" studded wall. Dimensions will vary with drywall or other types of construction, but installation economies remain the same.

... aluminum nail specifications

KIND	LENGTH	GAUGE	HEAD	NO. PER LB.
WOOD SIDING	1 7/8"	12	17/64"	604
SIDING with Sinker Head	2 1/4"	11 1/2	17/64"	468
	2 3/8"	10 1/2	19/64"	319
	2 7/8"	8 1/2	5/16"	185
WOOD SIDING with Casing Head	1 7/8"	12	9/64"	604
	2 1/4"	11 1/2	9/64"	468
	2 3/8"	10 1/2	5/32"	319
	2 7/8"	8 1/2	3/16"	185
CEDAR SHAKE	1 1/4"	13 1/2	5/32"	1300
	1 3/4"	12 1/2	5/32"	724
CEDAR SHINGLES	1 1/4"	14	7/32"	1480
ASBESTOS SIDING	1 1/4"	13	3/16"	1230
	1 3/8"	12 1/2	3/16"	720
ASBESTOS SHINGLE	1 1/4"	11 1/2	10/32"	785
	1 1/2"	11 1/2	10/32"	659
	1 3/4"	11 1/2	10/32"	544
INSULATED SIDING Light Finish	2"	11 1/2	7/32"	495
	2 1/2"	10	7/32"	295
INSULATED SIDING Blk. Alrok Finish	2"	11 1/2	7/32"	495
	2 1/2"	10	7/32"	295

Sinker head wood siding nails are used for wood and composition siding; casing head siding nails for wood siding, knotty pine and batten siding. Cedar shake nails may also be used to apply interior insulation board. Cedar shingle nails are used with wood shingles, aluminum barn batten, and weatherstripping. Asbestos shingle nails are used with asbestos, slate, and tile roofing as well as with asbestos siding shingles. Insulated siding nails have light finish for face nailing light colored materials. Roofing nails work well with asphalt roofing, insulation sheathing and gypsum sheathing. Plain shank roofing nails apply crimp, plain, or corrugated roofing. Screw grip nail has similar applications with more holding power.

... casement operator details

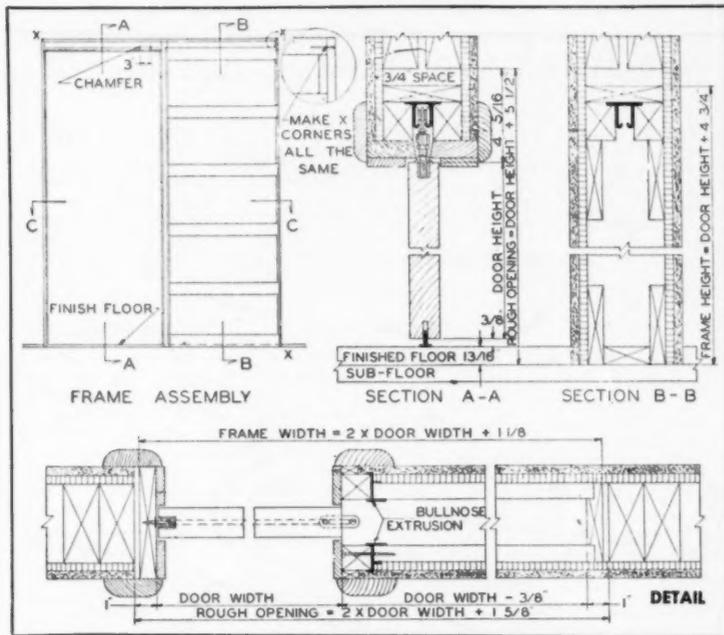


Courtesy Sterling Hardware Mfg. Co.

Casement operator is designed to provide more than usual ruggedness, plus smooth operation and attractive design. Operator is reversible and may be used with either butt or extension hinges. It requires only 1 1/2" of space between sash and screen.

KIND	LENGTH	GAUGE	HEAD	NO. PER LB.
GYPSUM LATH	1 1/8"	12 1/2	5/16"	988
	1 1/4"	12 1/2	5/16"	939
	1 1/2"	12	5/16"	725
STANDARD SHINGLE	3/8"	12 1/2	9/32"	1313
	1/4"	12 1/2	9/32"	1009
ROOFING	3/4"	10	7/16"	746
	7/8"	10	7/16"	663
	1"	10	7/16"	605
	1 1/4"	10	7/16"	491
	1 1/2"	10	7/16"	417
	1 3/4"	10	7/16"	368
	2"	10	7/16"	336
2 1/2"	10	7/16"	274	
ROOFING with Neoprene washers attached Plain Shank	1 1/4"	10	7/16"	318
	2"	10	7/16"	285
	2 1/2"	10	7/16"	243
ROOFING with Neoprene washers attached Screw Grip	1 3/4"	9 1/4	7/16"	288
	2"	9 1/4	7/16"	258
	2 1/2"	9 1/4	7/16"	215

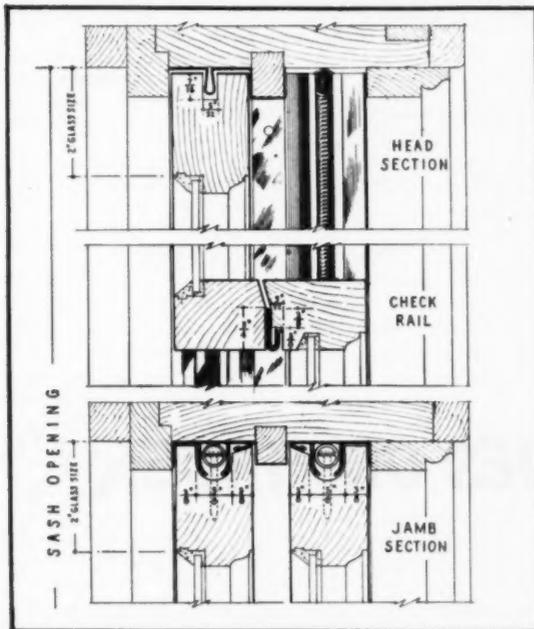
Courtesy Nichols Wire & Aluminum Co.



Courtesy Jay G. McKenna, Inc.

... closed pocket assembly for heavy sliding door

Closed pocket assembly for sliding door features eight load-carrying wheels for heavy doors, $\frac{3}{4}$ " vertical door adjustment, and extra heavy track to carry doors up to 85 pounds in weight. Necessary door frame may be obtained from millwork supplier handling the door assembly. Special extruded aluminum split molding affords straighter and stiffer jamb to provide greater rigidity and better operation

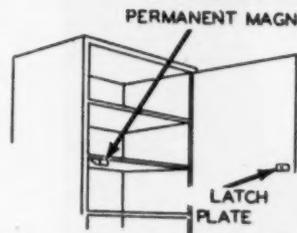


Courtesy Central Metal Strip Co.

... weather strip and sash balance combination

A combination weatherstripping guide and balance is said by manufacturer to eliminate leaky box frames, sash cords. Complete metal jambs provide sensitive sash control, good balance, easy adjustment. Units require no oiling, painting, or other maintenance

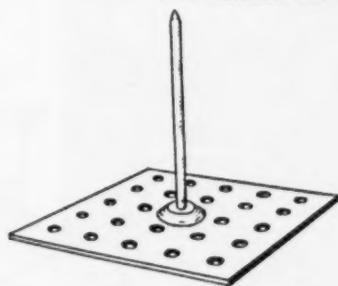
... magnetic latch



Courtesy Laboratory Equipment Corp.

Latch shown above consists of a small permanent magnet, a small plate of special steel, and necessary screws. No moving parts, no springs, no catches—manufacturer claims trouble free operation which allows door to open without jerking

... anchor nail



Courtesy Devices, Inc.

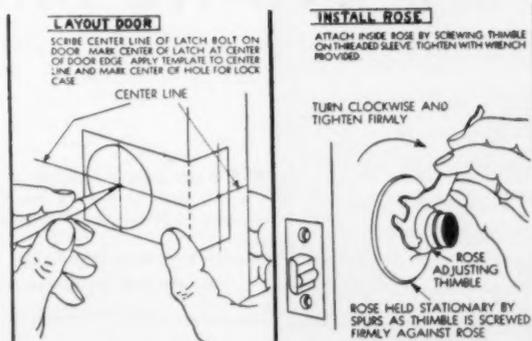
Anchor nail shown is used with installation of furring strips, drywall or plaster construction, and other installations where it may be applied to masonry wall with mastic cement

... tools and templates speed lock installation

Thimble wrench provided with this lock set is designed to tighten or loosen rose thimble on lock set. A plastic sleeve is assembled to this wrench to prevent marring the finish of the rose thimble. Templates with full installation instructions are provided by the manufacturer with every lock set to aid installation



... how to install deadbolt front door lock



Courtesy Russell & Erwin Division



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"EVERYTHING HINGES ON HAGER!"*

FREE! If you enjoyed laughing at Virgil Partch'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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AMERICAN BUILDER

FLOOR FURNACES

Six Essentials of Satisfactory Installation

1 SIZE

Be certain furnace is correctly sized to handle heat loss of the space to be heated.

Where furnace is sized for only a part of the house or building, it is advisable to draw up a short agreement for customer's signature mentioning that point. Whenever possible install sufficient capacity to heat the entire house or building.

2 LOCATION

Place the furnace at least 6" away from any wall as required by Commercial standards. However, we recommend 12" for best performance. See that it is as nearly as possible centrally located in the space to be heated. Avoid locations in corners or alcoves. Do not try to heat through more than one archway and one doorway in any direction.

3 VENTING

Be certain furnace is correctly vented. Lateral vent should slope upwards at least 1/2" per foot to vertical flue with as few turns or elbows as possible. Do not run lateral vents over 20 feet. When lateral vents are more than 10 feet, the pipe should be insulated with air cell material 1" thick.

Don't vent to a flue already overloaded with other appliances. Seal off all leaks or openings in flue. Check for down drafts. If in an old house, see that chimney is thoroughly clean. Chimney should extend at least 2 feet above highest part of roof.

4 COMBUSTION AIR

Be certain the furnace has sufficient air for combustion. Provide a free path for the flow of combustion air to the furnace.

5 STOP INFILTRATION

Be certain there is not excessive infiltration of cold air from outside or from unheated sections of the building. Loose windows, cracks around sills and floor, openings under doors, and open attic trap doors seriously affect circulation. Such conditions should be called to the customer's attention and corrected at the time of sale. Besides assuring better heating results, their elimination will save money on fuel bills.

6 OPERATION

Carefully explain and demonstrate operation of furnace and automatic controls, if used, to customer before leaving. Call back again after 14 days operation to see that everything is right.

Heating Principles

The builder and architect should be responsible for providing the following items:

1. A good chimney or vent pipe for the control of combustion and exhaustion of flue gases.
2. A safe structure protected from fire hazards.
3. A tight structure to minimize heat loss.
4. A durable structure protected against moisture condensation.
5. A comfortable building with a minimum of drafts and cold surfaces.
6. An economical building for winter heating and a comfortable structure for summer coolness.

Research work has indicated conclusively that emphasis on heating equipment alone is not enough—more attention must be paid to the structure itself to insure comfort.

Good Chimney Is Mandatory

The first point to consider in chimney construction is adequate flue area. The quantity of smoke and gas to be removed will depend on (a) the kind of fuel and (b) the amount of fuel needed to heat the house. Flues built for oil and gas burners will not need as large flue dimensions as those which serve furnaces that burn coal. In an area where hand-fired bituminous coal may be burned in a central heating plant, the nominal chimney flue dimensions should never be less than 8 inches by 12 inches.

The height of the furnace flue is also important, and for some furnaces must provide strong enough suction

to draw air into the combustion space and up through the bed of ash and fuel; for others, the chimney will only need to supply necessary draft to remove the flue gases from the furnace.

The preferred location for chimneys is in the interior of the house. Inside chimneys are not so subject to backdrafts, to moisture condensation, or to smoke backing into the house. The preferred height is not less than 8 feet from the top of the smoke pipe connection of the furnace. If the flue must be offset, the angle of the offset should never be more than 30 degrees. Flue lining joints must be perfectly smooth and tight.

Prefabricated chimney units are available today which can be used in place of lined brick construction. Light in weight, they save on installation time and labor, claim savings of up to 50 per cent over brick construction. One type has an insulating wall equivalent to 24 inches of brick. Such chimneys are easily installed, are designed for one- or two-story construction and for use with all fuels. They can be suspended from the ceiling, the floor, or installed with pier support. Flue sections are lined with refractory fire clay, come with joint cement and draw bands for cementing the sections together. Roof housing is easily fitted to exact roof pitches. These packaged chimneys are accepted by FHA and national heating codes and have fire-safe ratings from Underwriters' Laboratories.

(Continued on page 262)

HEATING, VENTILATING, and AIR CONDITIONING EQUIPMENT

Heating Principles

Chimneys
Fire Hazards
Weatherproofing
Heat Loss Calculations

Fuel Storage

Modern Types

Gravity Warm Air
Forced Warm Air
One-Pipe Steam
One-Pipe Hot Water
Floor Furnaces

Radiant Heating

Hot Water
Warm Air
Glass Wall Panel

Perimeter Warm Air

Baseboard Heating

Control Systems

Heating Commercial Buildings

Air Conditioning and Ventilating

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ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.



**Cool the entire house
at low cost**

**Hunter home cooling is one of the most
popular features of modern homes**



Installation is easy and inexpensive. Fan rests on attic floor—no suction box or other extras. Automatic ceiling shutter screw-fastens over ceiling opening—no replastering or repainting.

For home owners who want cool comfort at lowest cost during hot summer months, Hunter Attic Ventilation is the perfect answer. Both initial cost and operating expense are very low.

The attic fan's method of cooling a house is simple (see drawing above). It drives out stagnant air through the attic and creates a strong suction which pulls in fresh, cool air from outdoors.

The new Hunter Attic Fan is a compact unit that is easily in-

stalled in any home. It requires only 18" attic clearance . . . ideal for low-pitched roofs. Certified air deliveries range from 5000 to 15500—to fit any home size and climate.

This improved attic fan is priced substantially lower than previous models. Yet it has the same smooth, quiet operation and dependability that have made Hunter Fans famous for over 65 years.

Write for free copy of "How to Cool for Comfort." See our catalog in Sweet's Files.



HUNTER FAN AND VENTILATING CO.
381 S. Front St., Memphis 2, Tenn.

Hunter *Package* Attic Fans

HOW TO USE THE CONDENSED METHOD HEAT LOSS FACTORS

Quantities of heat are measured in units called British Thermal Units (abbreviated BTU).

Heat is lost from a warm building through all of its surfaces exposed to lower temperature. This is called "transmission losses." Heat is also lost due to wind blowing through cracks around windows and doors. This is called "infiltration losses." Total heat loss of a building is the sum of transmission losses plus infiltration losses.

A The first step is to find how much heat is lost by transmission. Calculate the areas in square feet of all exposed surfaces of the room or building including:

1. Window and outside door area (combined).
2. Net outside wall (gross wall area minus item 1).
3. Ceiling area (below unheated room or attic space). Inside walls adjacent unheated rooms.
4. Floor area (if space below floor is not heated).

Each of the above losses should then be multiplied by the proper factor from one of the Condensed Method tables.

B Next, estimate infiltration losses. This depends on the amount of cold air blown into the house, which is in turn dependent on the size of the window or door and the width of the crack around it. Simply multiply the area of windows and doors already calculated in Step A by the infiltration factor selected from Table 5. Also, since there is more air leakage through door cracks than through window cracks, allow an additional 1000 BTU for each outside door. Add 3000 BTU for each fireplace.

C Add the infiltration losses (Step B) and the transmission losses through the windows, walls, etc. (Step A) all together. The sum is the heat that would be lost from the room or building—if the temperature difference between inside and outside were 100°. In other words, this is the amount of heat it takes to maintain 70° inside when the outside temperature is 30° below zero, which would occur only in the very coldest sections of the United States.

D Heating requirements are naturally less where the weather does not get so cold. The average minimum temperature in Dallas, Texas, for example, is only 10° above zero. The "design temperature difference" between inside and outside would be 70° minus 10° equals 60°. Therefore, the heating requirement is only 60/100 or 60% of the amount based on 100° TD. The map at the right is zoned according to winter design temperatures, and gives percentages by which results from Step C should be multiplied to find actual heating requirements.

1. WINDOWS & DOORS		Multiply sq. ft. by:
a.	Without storm sash	113
b.	With storm sash	75
2. OUTSIDE WALLS (NET)		Multiply sq. ft. by:
a.	SOLID MASONRY — (Brick, stone, etc.) with plaster applied direct to inside surface of masonry wall.	45
b.	AVG. FRAME—Brick Veneer—Wood Siding—Shingles or Stucco—with sheathing, bldg. paper, studs, lath and plaster	30
c.	FURRED MASONRY—(Same as 2a with air space between plaster and masonry wall)	
d.	INSULATED FRAME—Same as 2b—with 1" or less insulation board or blanket	20
e.	HEAVILY INSULATED—Same as 2b—with 2" or more insulation	10
3. CEILINGS & INSIDE WALLS		Multiply sq. ft. by:
a.	CEILING—Plaster on lath or wall-board. No floor above—Attic not vented	31
b.	Same as 3a—with 2" or more insulation	12
c.	CEILING of first floor room below unheated room on second floor	17
d.	INSIDE WALL adjacent unheated room	
4. FLOORS		Multiply sq. ft. by:
a.	Double wood floor—over cool basement or other enclosed space	15
b.	Same as 4a—but open space below floor exposed to outside	32
5. INFILTRATION (AIR LEAKAGE)		Multiply each sq. ft. of window and door area by:
a.	WINDOWS AND DOORS Average fit—Not weatherstripped	50
b.	Average fit—weatherstripped (or equipped with storm sash)	30
c.	Poor fit—not weatherstripped	140
d.	Poor fit—Weatherstripped (or equipped with storm sash)	43
e.	EXTRA FOR EACH OUTSIDE DOOR	1000
f.	EXTRA for air lost up fireplace flue	3000

*Above factors are approximate heat loss through each sq. ft. of surface with 70° inside and -30° outside.

TODAY'S "MOST-WANTED" HOMES HAVE ELECTROMODE HEATERS ALL-ELECTRIC



- ▶ AUTOMATIC
- ▶ MODERN DESIGNS
- ▶ CAPACITIES FOR ALL SIZES
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- ▶ QUIET, FAN-CIRCULATED HEAT
- ▶ QUICK, CLEAN, HEALTHFUL
- ▶ EASY-TO-INSTALL

MODEL WJA BATHROOM HEATER

For BEAUTIFUL BATHROOMS—that add sales-appeal to your houses—install Electromode Automatic Wall Heaters. Choice of gleaming chrome or baked-on white enamel finish to harmonize with other fixtures. Also ideal for nursery or any small room.

Completely SAFE

Only Electromode has the sealed-in CAST-ALUMINUM HEATING ELEMENT. No danger of fire, shock or burn. Automatic safety switch prevents overheating.

For BIG COLD ROOMS

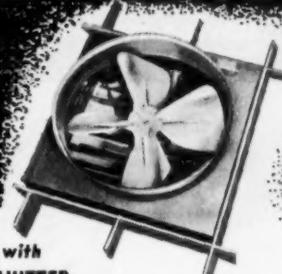
Model WA Electromode Automatic Down-Flo Wall Heaters. Handsome silver grey hammer-tone finish. 1500 to 4000 watts.



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45 Crouch St. Dept. AB-153 Rochester 3, N. Y.

FRIGID helps you with that extra selling feature...

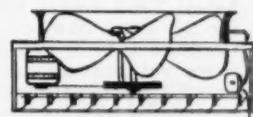


FRIGID FAV-36"
Package Unit ATTIC FAN with Built-in Automatic SHUTTER

Builders are finding that they need extra selling features to interest buyers—the Low Cost 'FRIGID' FAV-36" ATTIC FAN was designed to answer this need.

A complete package unit Attic Fan, easy to install and ideally suited to give the future home owners hot weather comfort.

The FAV-36" Fan requires but a minimum of attic space and affords maximum air delivery



'FRIGID' Fans are Unconditionally Guaranteed.

Here are some fans of the 'FRIGID' line





LAYDOWN FANS
BELT-DRIVE EXHAUST FANS
REVERSIBLE WINDOW FANS

Write for the new Descriptive 1953 Catalog & Low Prices.

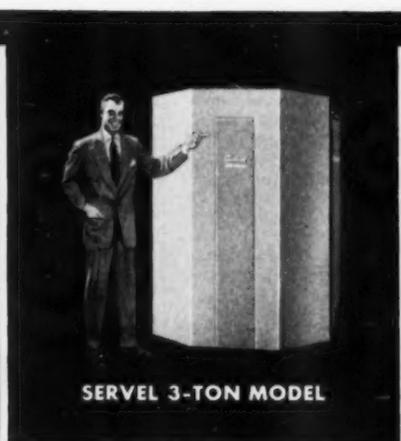
FRIGID INCORPORATED
FORMERLY CIRCULATORS & DEVICES MFG. CO. P.
128-168 THIRTY-SECOND STREET
BROOKLYN 32, N. Y.

Servel has a size

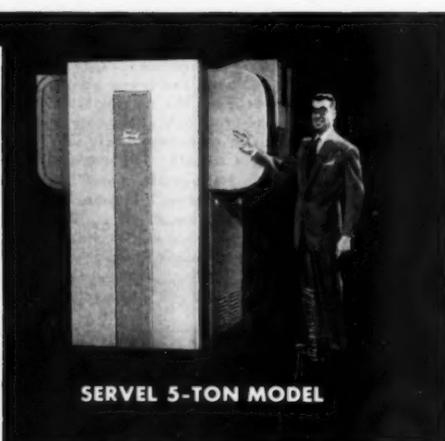
NOW—with Servel All-Year® Air Conditioning climate control, designed and



SERVEL 2-TON MODEL



SERVEL 3-TON MODEL



SERVEL 5-TON MODEL



Servel 2-ton model. Designed for the small, low-cost home. Occupies only 2½' x 4' floor space yet delivers full, year-round air conditioning. In winter, the unit automatically heats, humidifies, cleans and circulates the air, and maintains the conditioned space at a predetermined temperature. In summer, it automatically cools, dehumidifies, cleans and circulates the air, and maintains a constant temperature.

SPECIFICATIONS:

Delivered capacity—24,000 B.t.u./hr. cooling; 72,000 B.t.u./hr. heating.
Size of unit—46" x 27" x 75".
Weight—Approximately 890 lbs.
Heating cycle—Heavy-gauge steel heat exchanger—gas-fired.
Cooling cycle—Gas flame operates absorption refrigeration unit. Unit is hermetically sealed for longest life.



Servel 3-ton model. This "Big-home size" unit actually costs little more than the price of a heating system alone yet provides complete home comfort 365 days a year. One compact unit heats, humidifies, cleans and circulates the air in winter; cools, dehumidifies, cleans and circulates the air in summer.

SPECIFICATIONS:

Delivered capacity—40,000 B.t.u./hr. cooling; 96,000 B.t.u./hr. heating.
Size of unit—51½" x 51" x 73½".
Weight—Approximately 1725 lbs.
Heating cycle—Steam at atmospheric pressure is developed in the steam generator (gas- or oil-fired), delivered to the heating coil over which filtered air is forced by the blower. Two-step modulation reduces input to meet local conditions.
Cooling cycle—Steam from same generator actuates absorption refrigeration unit. No pumps or compressors needed.



Servel 5-ton model. For larger homes, this famous Servel unit pioneered in the introduction of *All-Year* air conditioning. Servel "no moving parts" design means quiet, economical, dependable year-round air conditioning. Automatic control with the *Selectrol*, plus full heating modulation, maintains uniform temperatures and eliminates "lag" and "overshoot."

SPECIFICATIONS:

Delivered capacity—65,000 B.t.u./hr. cooling; up to 144,000 B.t.u./hr. heating.
Size of unit—66¼" x 57½" x 84½"
Weight—Approximately 2485 lbs.
Heating cycle—Gas- or oil-fired. Available with 96,000 or 144,000 B.t.u./hr. output. Full modulation.
Cooling cycle—Famous absorption refrigeration unit operates from steam, produced by the steam generator or from any outside source under any pressure.

for every home!

**— complete, year-round
priced for every residential cost bracket!**

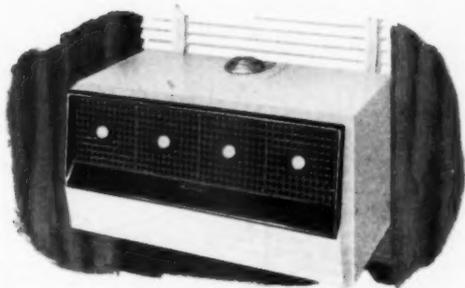
"No moving parts" design

All Servel All-Year Air Conditioners operate with no moving parts in either heating or cooling system. This means less noise, no vibration, minimum maintenance. Each hermetically sealed refrigerating unit carries a full five-year warranty.

Servel manufactures the world's finest air-conditioning equipment to fit all air-conditioning requirements—residential, commercial, industrial—all-year or cooling alone. Before you build, consider the advantages of All-Year air conditioning—investigate Servel.

No doubt about it, *All-Year* air conditioning is an added stimulant to home buying! In case after case, builders report that year-round climate control is the one feature that clinches the sale.

Now, no matter what size home you build, there is a Servel *All-Year* Air Conditioner engineered for the job and priced to fit every cost bracket. That means *more* sales, *quicker* sales for the builder—lasting, year-round satisfaction for the home buyer.



WONDERAIR

by SERVEL

Biggest value in the business— $\frac{3}{4}$ h.p. at usual $\frac{1}{2}$ h.p. price... and 1 h.p. at usual $\frac{3}{4}$ h.p. price. Available in $\frac{3}{4}$ - and 1-h.p. sizes. Choice of blond or mahogany cabinets. Single-dial weather control has 5 settings: full-power cooling, night turn-down, stale air exhaust, outside air only, cool air mixed with outside air. Thermostat control on 1-h.p. model—optional on $\frac{3}{4}$ -h.p. model.

*Trade-mark Reg. Pending.

Servel

the name to watch for great advances in —

AIR CONDITIONING ✓ REFRIGERATION

Contact your nearest Servel dealer or mail coupon for complete information.

SERVEL, INC., Dept. AB-4, Evansville 20, Indiana

Please send me complete information about *All-Year* air conditioning for residential, commercial, industrial buildings.

Name _____

Firm _____

Address _____

City _____ Zone _____ State _____

GET ALDRICH *Gulf Stream*

C-SERIES
BOILER-BURNERS



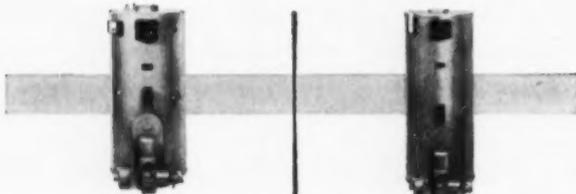
GULF STREAM PACKAGE. Fully erected, pre-wired, accessory-equipped package. Ready to set in place and connect.

P **PERFORMANCE**— With Lasting Economy. Fast, quiet hot water heating . . . instant hot water.

D **DESIGN**— For Today's Market. Quick and easy to install, Aldrich saves money, space, installation time.

Q **QUALITY**— At Quantity Prices. Engineered for instant response to heating needs . . . peak fuel efficiency.

**EASIER TO SELL . . .
EASIER TO INSTALL . . .
EASIER TO SERVICE . . .**



GULF STREAM STANDARD
Shipped fully erected with complete automatic controls: stack switch, thermostat and limit control.

HOT WATER HEATER
Internally galvanized; 100 to 255 GPH at 100° rise. Instant, directly heated hot water.

ALDRICH *Gulf Stream* OFFERS VALUE . . .

that's profitable to sell, practical to buy.

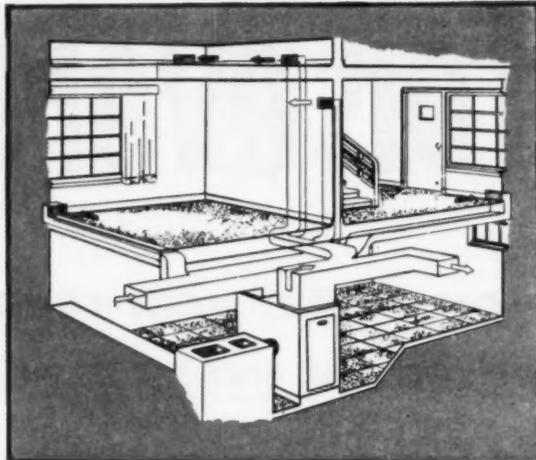
- Five sizes with SBI ratings from 440 to 1120 square feet of water radiation.
- Multiple flue tubes baffled for maximum heat extraction.
- Aldrich burners coordinated to Gulf Stream boilers.
- For inspection and maintenance, readily removable top jacket and large opening to combustion chamber.
- Minimum temperature change regardless of firing conditions.
- Designed for standardized production; to meet ASME code.
- Burners U.L. listed.

THE
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COMPANY

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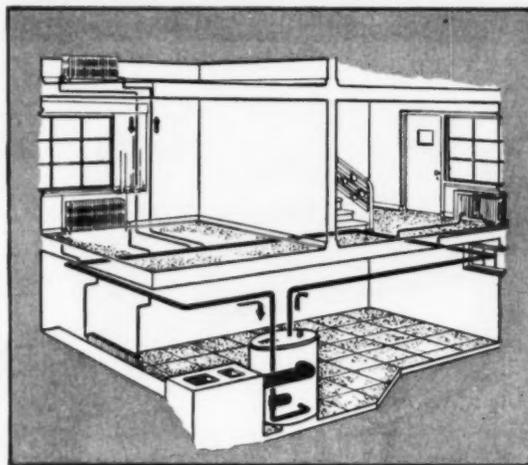
forced warm air . . .



Courtesy York, Shipley, Inc.

Forced warm air heating systems may be used in both large and small homes. Furnace may be located at any convenient place in basement or utility room. Heat is supplied by gas, oil, or coal burner, with a blower located in or adjacent to the furnace to force air through the heating chambers and throughout the system. Most forced warm air systems provide filters for cleaning the air and humidifiers for adding moisture. In summer, the system may be used for air circulation. This type of system provides very rapid response to changes in heating demands.

forced hot water . . .



Courtesy York, Shipley, Inc.

Forced hot water heating systems may be used in homes of any size or shape. Boiler may be located in basement or utility room. Either one pipe or two pipe systems may be used to provide supply and return lines between boiler and radiators or convectors. A circulating pump, usually in the return water line, controls the flow of water through the system. An expansion tank allows the water in the system to expand or contract with changes in temperature. It also keeps boiler and radiators filled with water at all times. Forced hot water systems are frequently used with radiant panel installations.



"All sizes and types"



"Really fast heat transfer"



"Easy-to-reach damper control"



"Grille punched into heavy, one-piece front"



"Simple to paint—any color"

Set Dunham's "Dial" . . . You're Set For Better Heat

Turn the knob on Dunham's new damper and you're set for most effective heat distribution. Why overheat when it's so easy to "put the damper on" heat output? And why let air swirls and eddies cut down good convection when this Dunham damper directs air through the louver grille?

And since the Dunham grille is an *integral part* of the heavy, sheet steel front . . . there are no separate panels to rattle, no bolts or welds to loosen. Just a sturdy *one-piece* front and grille.

You're set for better heat . . . for a longer time . . . when you have Dunham Convectors. Write for further facts.



Send for Free Literature—Folders 1205-25 and 1206-25 give full information on sizes and types, design and construction details, plus complete capacity tables. For your free copies write to: C. A. Dunham Company, 400 W. Madison Street, Chicago 6, Illinois.

Quality first for fifty years

DUNHAM

CONVECTOR RADIATION



ANOTHER QUALITY PRODUCT OF C. A. DUNHAM COMPANY—CHICAGO • TORONTO • LONDON

APRIL 1953

259

DUNKIRK GAS FIRED BOILER

*the hottest baby
you ever
caught up with*



* It's a believe-it-or-not boiler! Amazingly small . . . amazingly efficient . . . amazing fuel economy. This sensational new boiler helps builders offer every comfort of hot water heat with modern convenience and cleanliness of automatic gas heating. Almost as small as a kitchen chair, easily installed in kitchen, utility room or alcove. Six section boiler heats a six room house. Other sizes for larger residential and non-residential needs.

Blue Circle Burner is a ball of fire! Intense heat . . . dispersion-type flame spreader . . . turbulent scrubbing action, all combine to get the most out of every fuel dollar. Blue Circle wet base boilers can be installed on wood or linoleum floors. *Write for catalog and prices.*

ALSO BLUE CIRCLE OIL AND COAL FIRED BOILERS AND RADIATORS
MADE OF CAST IRON, THE LIFETIME METAL

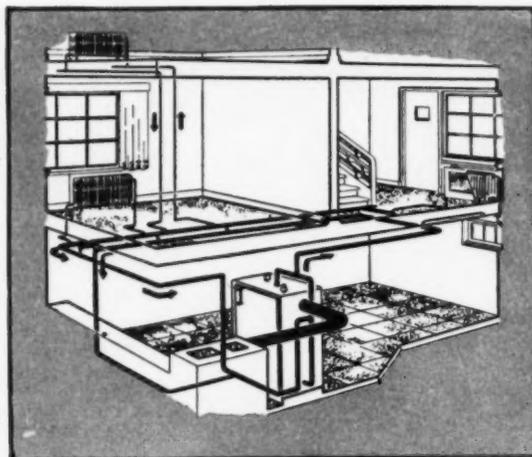
DUNKIRK RADIATOR CORPORATION
Dept. AB-4, DUNKIRK, N. Y.

Please send catalog and prices on Blue Circle Boilers.

Name _____

Street _____

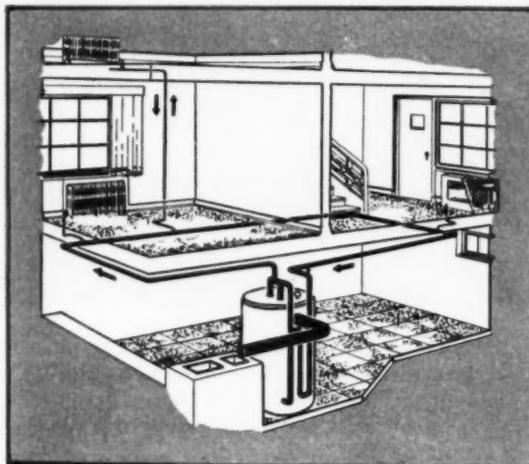
City _____ State _____



Courtesy York, Shipley, Inc.

two pipe steam . . .

Two pipe steam heating systems differ from one pipe installations in that the condensation water returns to the boiler through separate pipes rather than through the pipe which supplies the steam. A trap at each radiator prevents steam from returning with the water. In basementless homes, where sufficient drop cannot be provided for return lines, a condensate pump is normally installed. This system is efficient in larger homes and commercial buildings, is generally more flexible in operation and eliminates the need for radiator valves. Automatic controls may be installed to regulate the system for both comfort and safety.



Courtesy York, Shipley, Inc.

one pipe steam . . .

In the one pipe steam heating system, the boiler must be located below the level of the rooms to be heated. Steam for heating is generated in the boiler and rises through a large supply line. Single pipes from this line carry the steam to radiators where it gives off heat and condenses to water, which drains to the return line through the same pipe which supplied the steam. Air that may be in radiators or steam lines is eliminated through vents on the radiators. One pipe systems eliminate extra piping and offer economies of installation, particularly in smaller homes.

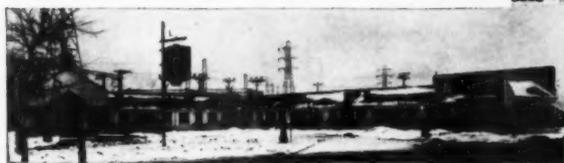
RESIDENCES, APARTMENTS, MOTELS, STORE BUILDINGS

ZONED FOR COMFORT



In beautiful modern homes like this, Thrush zoning provides controlled comfort at low cost.

Buildings may be zoned so that each apartment has individual control of temperature from a single boiler.



Zoning reduces operating costs for Motels.



JUST THESE SIMPLE UNITS NEEDED FOR EACH ZONE . . . a Thrush Water Circulator, a Thrush Radiant Heat Control (with Relay Transformer) and a Thrush Flow Control Valve.

WITH THRUSH FLOW CONTROL SYSTEM OF HOT WATER HEAT

YOU CAN install low cost Radiant Hot Water Heat in every type of modern building and provide the greatest comfort with complete control of temperatures. Best of all, it is easy to zone any building or group of buildings with Thrush Flow Control System of Hot Water Heat, using a single boiler. This method provides individual heat control in each building, apartment or area of a home. It is ideal for use with radiant coils, radiant baseboards, radiators or convectors. For more information see our catalog in Sweet's or write Department G-4.



H. A. **THRUSH** & COMPANY
PERU • INDIANA

It's no secret...



Thousands of experienced builders and architects depend upon the complete line of Bennett Fireplace Supplies — to save construction time, cut building costs and assure *full satisfaction* on every job! Every piece of Bennett fireplace equipment is designed from the builder's viewpoint . . . engineered for ease of installation, economy and top performance in the home. Build with Bennett — and you'll build a better fireplace!

Benefire® Fireplace Unit — for a perfect fireplace every time

The simplified, standardized, recirculating fireplace form that includes scientifically designed firebox, throat, damper, down-draft shelf, heating chambers and smoke dome—all combined into *one fool-proof unit!* Heavy boiler plate construction throughout, in 6 sizes—every size lays up with standard brick, with no costly cutting or fitting. Fits any mantel design . . . circulates heat evenly . . . guaranteed not to smoke. To build your next fireplace quicker, easier, at less cost—build it around a Benefire Unit!



Bennett Standard Dampers



Bennett fireplace engineers . . . specialists in fireplace design for over 25 years . . . have built into these Bennett throat dampers *dozens of proven* performance and construction features! Two types available . . . of boiler plate steel or lifetime cast iron—both make your job easier, produce a *finer* fireplace at lower cost. See these Bennett Dampers—and the complete Bennett line of ash dumps, clean-out doors, lintel bars, etc.—at your supplier's.

The amazing new Beneform® Universal Damper



The exclusive new damper that puts "unusual" fireplace design within the reach of all! Any one of six basic fireplace types, including projecting corner, three sided openings, etc.—in a full range of sizes—can be economically built around BENEFORM. Gives plenty of added sales appeal to your homes—at very little added cost!

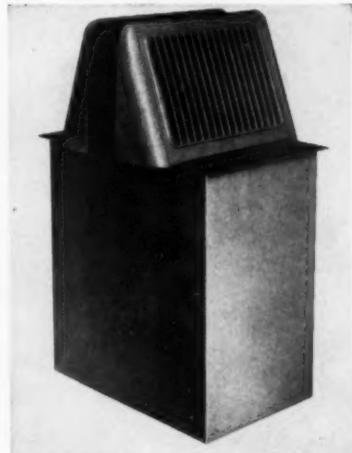
See your supplier...
or write Dept. C for catalog



(Continued from page 253)

Fire Hazards Should Be Eliminated

Some of the more common fire hazards over which the builder has some control (but the heating contractor very little) are:



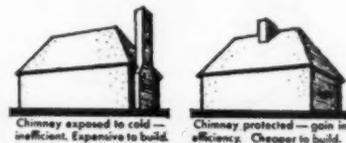
DUAL-WALL TYPE FLOOR FURNACE designed to be set under the wall between two rooms where there are no interconnecting openings

(1) Chimneys and pipes accumulate soot from soft coal. If chimneys "burn out" and soot catches fire, a danger spot exists if any combustible material touches the chimney, such as roofing or framing.

(2) Specifications exist for clearance between smoke and vent pipes and adjacent combustibles such as joists or partitions. Protect such surfaces!

(3) Smoke pipes should be short and well supported, so as not to serve as soot collectors. Fit sections together with screws and hang securely. Build to withstand any puffback short of an explosion. If the smoke pipe is long and has bends, it needs periodic cleaning.

(4) Thermostatic controls are primarily designed for temperature control for comfort. However, limit-controls exist which can guard against excessively hot temperatures and will stop the stoker or gas burner



or oil burner whenever safe temperatures for furnace or boiler are exceeded. Safety should always precede comfort!

Weatherproofing Saves Fuel

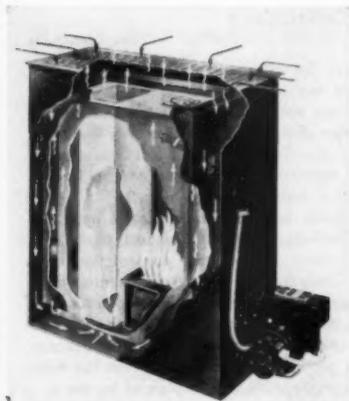
In remodeling an existing house, the following weatherproofing steps should be taken: (1) installation of storm doors and weatherstripping outside doors; (2) installation of storm sash, especially living room, dining room and sunroom areas; (3) insulation of ceilings; (4) insulation of sidewalls. (Listed last because most expensive.)

With new house construction, these steps are taken in reverse order. The minimum requirements for FHA-mortgaged homes list the minimum values for transmission of heat for walls and ceilings. These are bare minimums and should not be considered desirable. In any case check over your plans with the heating contractor and let him specify allowable heat loss from each room so that provision can be made for necessary weatherproofing to provide comfort without putting unnecessary strains on the heating system.

Floor Furnaces

The simplicity of floor furnaces has many virtues, chief of which is low installation cost. No ducts are required. The furnace needs no basement, uses no living space in any room. It requires very little skilled labor to install. Single units usually have sufficient capacity to heat four or five rooms in a small house.

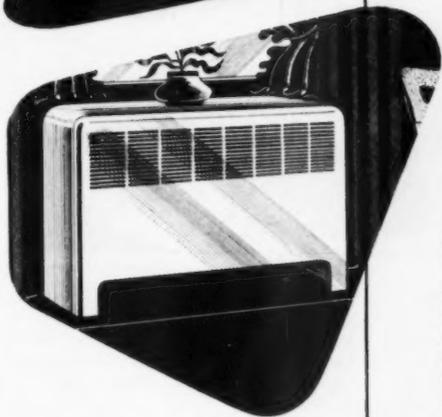
A good floor furnace will circulate all the air in the heated space three to five times an hour without excessive velocities or drafts. The unit itself usually consists of a combustion chamber together with interior radiator sections to provide maximum heat transfer surface, all enclosed in a metal inner liner. Space between inner liner and outer jacket provides for cold air return to bottom of the unit.



COOL AIR flows from floor into separate chamber to come up through heating element of a floor furnace

APRIL 1953

For warmth...and Beauty



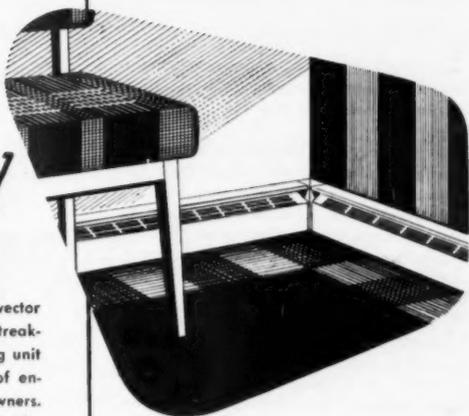
Rounded corner cabinets (prime coated) blend with any construction, any interior design. Elements for steam or hot water. Units from 16 to 64 inches long, 4 to 10 inches deep, 20 to 32 inches high.

Bush Convectors

Modern heating at its best! Builders have discovered the many advantages of the Bush line of convectors. . . . Recessed convectors maintain clean, unbroken lines of modern rooms, preserve free floor space. Aluminum and copper finned elements promote quicker response to heat needs, mean greater economy of operation. Placed under windows, these units diffuse a blanket of heat at such "cold spots". They insure draft-free as well as dust-free heating.

Bush Baseboard Radiation

Bush Baseboard, like Bush Convector radiation, eliminates "wall streaking". Here is a modern heating unit built to satisfy the demands of engineers, builders and homeowners. Aluminum and copper finned tube elements mean economy of operation, quick response to heat needs. Uniform heat spread along the outside walls eliminates concentrated blasts of heat and consequent drafts and dust.



Available in flush or recess type for use with either hot water or steam. Coils available in aluminum and copper or all steel. Light in weight, neat in appearance, Bush Baseboard Radiation assures convenience and flexibility to the builder, comfort and eye-appeal to the homeowner.

Write for free bulletins on baseboard radiation and convector radiators.



THE BUSH MANUFACTURING CO.
West Hartford 10, Connecticut

Send me complete information on your Baseboard and Convector lines.

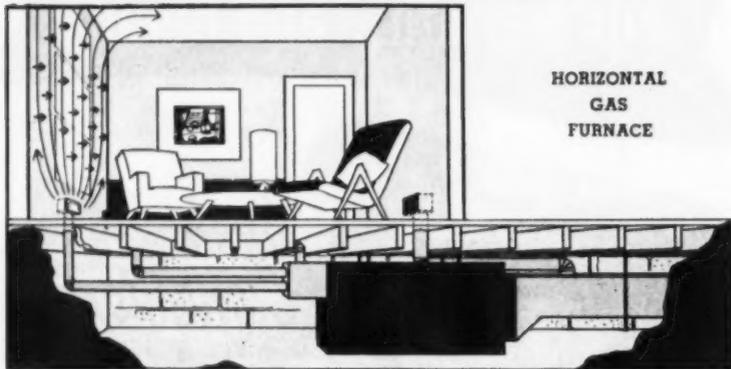
NAME _____

STREET _____

CITY _____ STATE _____

BUSH MANUFACTURING COMPANY WEST HARTFORD 10, CONN.

floor and wall furnaces . . .



General Electric Data

Horizontal gas furnaces offer economies in space, as they may be installed under basement ceilings, in utility room ceilings, or below the floor in crawl space for basementless homes. Locating the horizontal furnace in crawl space has also many duct-saving features, which also apply

in basement locations below kitchen counter and work areas. Where furnace is installed in crawl space, all duct work can also be placed there so that no useful space is used by either furnace or ductwork.



USE OF FLOOR FURNACES

The simplicity of floor furnace heating systems has many virtues, the most important of which is the low cost of installation.

The one-story and ranch type homes are easily adaptable to the use of floor furnaces. Also, the open planning used today permits good circulation of heat to several rooms from a single unit. In large homes, zoned heating may be readily achieved through the use of several units, each individually controlled.

No ducts are required in installing floor furnaces. The result is a lower initial cost than that required with any other type of warm air heating system.

Floor furnaces are not usually recommended for two-story buildings, since it is difficult to provide for units to be located in the second floor. Therefore, for all general purposes, a floor furnace heating system should be confined to one-story buildings. Occasionally furnaces can be installed at foot of stairs so as to do a reasonably good job of heating second floor.

With the dual wall furnace, it is possible to heat two adjoining rooms with the connecting doors closed. It is especially suited for use between two bedrooms, a bedroom and hallway, between two connecting rooms where it is desired to close one off occasionally, or where the arrangement prevents proper air circulation for efficient heating with conventional floor furnaces. The installation of a dual wall furnace between a bath and an adjacent room is not recommended.

Courtesy The Coleman Co.

Drafts Can Be Minimized

Good construction is more effective than extra heat in overcoming cold and drafts. Watch for these:

(1) Drafts near outside doors. Weatherstrip. Heat vestibules above normal room temperatures.

(2) Window frame leaks. Weatherstrip. Use storm sash. Caulk outside joints. Apply wool insulation around frame in construction.

(3) Baseboard drafts. Fill stud spaces in attic with insulation to prevent cold air coming down.

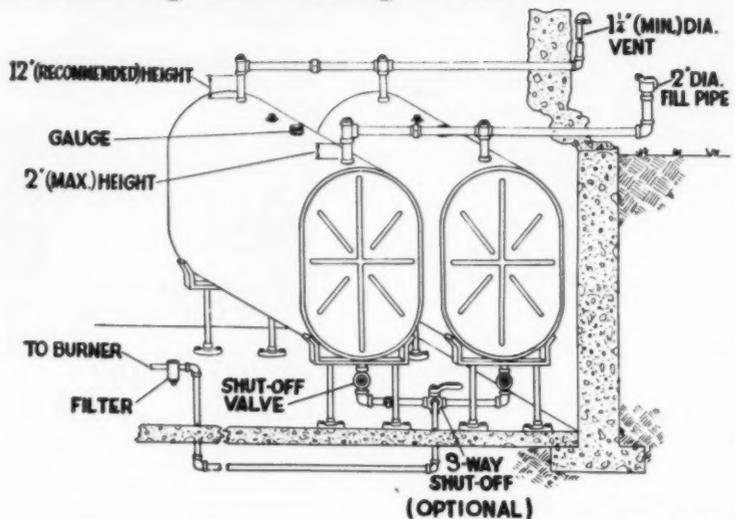
(4) Basements—leaky sills, leaking windows. Weatherstrip and caulk tightly. Cold basements make cool floors overhead.

(5) Drafts down stairways. Weatherproof second-story rooms.

(6) Drafts due to cold room surfaces, especially large window areas. Insulate cold walls and apply storm sash to windows.

(Continued on page 281)

installing oil storage tanks . . .



Courtesy Williams Oil-O-Matic

When installing the auxiliary equipment such as the fuel oil storage tank and piping, good material together with skilled workmanship is important. Most cities have certain rules and regulations governing the installation of such equipment and each builder should know existing local regulations.

Fuel oil storage and the delivery to the oil burner is a matter which comes up on every burner installation. This equipment may be divided into two groups:

1. Oil storage in a tank or tanks in the basement installed above the burner level.
2. Oil storage in a tank buried underground outside the building.

INSIDE STORAGE TANKS. The tank arrangement wherein the oil supply is stored within the basement is the more common type, probably because of the

lower installation cost. Providing that local regulations permit, two 275 gallon storage tanks, giving a total storage capacity of over 500 gallons, may be used. This arrangement is in accordance with the rules and regulations of the Underwriters' Laboratories.

All such storage tanks should bear the Underwriters' label. Obround tanks are preferable in that this construction considerably reduces the door clearance necessary to allow passage of the tank.

The inside tanks must be mounted on legs of some non-combustible material. Usually iron pipe is used, the fittings on the tank determining the size of pipe to be used.

A suitable approved gauge screwed in the top of the tank for indicating the amount of oil is permissible but in no case should a glass level gauge be used. **UNDERGROUND STORAGE TANKS.** In



*"With Delco-Heat I know I can guarantee
winter comfort in the homes I build!"*

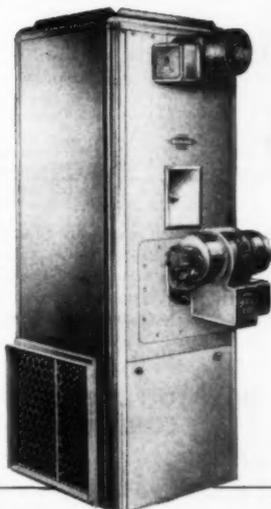
—says Mr. J. J. Glickman, River View Village Corp.,
Wappinger Falls, N. Y.



Delco-Heat helps sell homes— keeps buyers happy

**MODEL OPC-H
OIL FIRED
CONDITIONAIR**

Quick action heat transfer unit delivers more heat to homes, less lost up the chimney. Capacity 75,000 Btu. per hour. Centrifugal Blower and Burner driven by Delco-built, quiet, vibration-free Rigidframe Motor. High, low and Reverse Flow models for perimeter heating available.



The Effron Fuel Company of Poughkeepsie, N. Y., has installed over 1,000 Delco-Heat Conditionairs in Dutchess County alone. Typical of builder response is this statement by Mr. Glickman, who goes on to say, "After 50 years of building experience using many different types of heating equipment, we chose Delco-Heat because it meets the requirements of the most critical buyer. Our customers tell us the units are very economical in fuel costs and maintain even temperatures in every room of the house."

Whatever the system, whatever the fuel, your Delco-Heat Distributor has the answer with these nationally-advertised units, backed by General Motors, that help sell homes faster. See him today or write: Delco Appliance Division, Dept. B4-53, General Motors Corp., Rochester 1, N. Y.

For a good deal—
DEAL WITH DELCO

**GENERAL MOTORS
DELCO-HEAT**

General Motors Engineering
Delco Production Skill



...your keys to Sales Success

Glazing the Air-Conditioned Home

WHY AIR CONDITIONING CALLS FOR SPECIAL CONSIDERATION OF WINDOWS

Windows are possible sources of heat gain in summer, just as they may waste heat in winter. That's why, in air-conditioned homes more than ever, windows must be thoughtfully planned to give home buyers the comfort they want, and to assure efficient and economical operation of the air-conditioning system.

YOU HAVE THESE CHOICES FOR BETTER HEATING AND COOLING:

1. Resort to old-style, small windows to reduce heat loss and heat gain.
2. Use insulated windows. There are two ways to do this:
 - a. Storm sash on all windows the year 'round.
 - b. Sealed insulating glass in all windows.

SMALLER WINDOWS

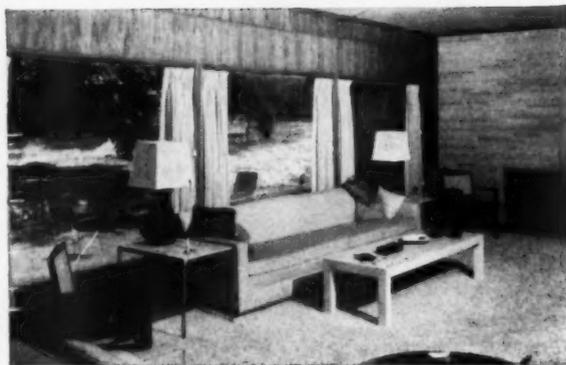
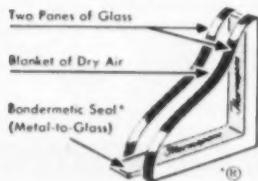
Smaller windows have steadily lost favor with architects, builders and buyers. Home buyers have shown a tremendous and continued desire for picture windows and window walls. To give them smaller windows would be a backward step that is sure to run into sales resistance—resistance which would be felt by builders, architects, real estate people and air-conditioning people, too.

INSULATED WINDOWS

Insulated windows, the other possibility, are a more logical and saleable answer to glazing for air-conditioning and heating economy. With insulated windows you reduce heat loss in winter and heat gain in summer. They save fuel in winter and power in summer, and help make the house more comfortable the year 'round. Consider the two ways of insulating windows:

1. Storm sash is one means of window insulation. They can be left in all year to provide summer as well as winter insulation. But they must be taken down periodically for washing, since dirt and moisture will infiltrate between them. And storm sash in sizes required for today's larger windows are unwieldy.

2. Sealed double glazing allows the use of large windows for daylight and view without the bother of storm sash. More and more builders have been putting *Thermopane** insulating glass in medium and low-price homes just for its winter benefits. Now, in the air-conditioned home, these be-



Architect Everett V. Welch, Dallas, Texas, used *Thermopane* insulating glass in this air-conditioned home in Dallas. Says Mr. Welch: "This resulted in savings on both heating and air conditioning, first from the standpoint of initial cost and second, from the standpoint of operational cost".

come year-round benefits and the extra cost of double glazing is doubly justified. The extra cost is minimized by the use of standard size units, standard sash and simplified installation methods.

The table below shows *Thermopane's* effectiveness in cutting down heat transfer by conduction and convection from the warm to the cold side. *Thermopane* saves, roughly, half of the money that would be wasted through single glass by these forms of heat transfer.

Kind of Glass	Thickness	Winter U. Value	Summer U. Value
Single pane (plate or sheet)	1/8"	1.16	1.07
	1/4"	1.15	1.06
<i>Thermopane</i> (double-pane units)	1/2" (1/4" air space)	.65	.61
	1" (1/2" air space)	.58	.56

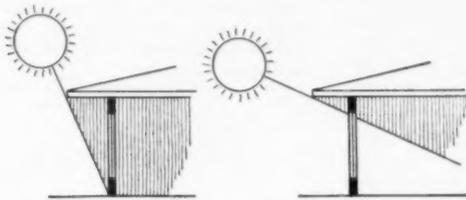
NOTE: Heat transmission coefficients (U. values) vary with ranges of temperature. Winter U. values above are based on 10° outside temperature, 70° inside temperature. Summer U. values are based on 95° outside temperature and 80° inside temperature. Wind velocity of 15 mph outdoors and normal free air movement inside are assumed in both cases.

HOW TO PLACE WINDOWS IN AIR-CONDITIONED HOMES

Insulation, alone, is not enough. Location and exterior shading of windows are vitally important if heating and air conditioning are to work with maximum effectiveness and economy. Energy from the sun and sky place by far the biggest load on air-conditioning systems in homes. The house should be located to make maximum use of the sun for winter warmth, but must have provision for shading certain windows in summer.

SOUTH WINDOWS

To make maximum use of solar heating in winter, the house should be laid out along an east-west axis, with large windows facing south. This brings in the low winter sun for fuel savings and comfort. South windows are easily protected from high summer sun by a roof extension (so designed that the low winter sun enters under it). The diagrams below show how this works. For correct design information for this overhang, see an architect or engineer. Most of them are equipped with the necessary guides to figure it out for your latitude.



Sun angle on June 21.

Sun angle on December 21.



This exterior view shows how Architect Welch provided a roof overhang to shade south windows from the sun in summer.

WEST WINDOWS

West windows must be more carefully considered than those on other elevations. Due to the buildup of heat through a hot summer day and the fact that the west elevation is exposed to the low afternoon sun, heat transmission through west windows can place a great load on the air-conditioning system. There are several possible ways to handle the west elevation problem:



1. Some architects and builders solve this problem by placing the porch, garage, carport or utility room on this side of the house.
2. If there are large trees on the site (or if they can be added) to shade west windows, the problem is solved by nature. The leaves provide summer shade—the bare branches let the welcome winter sun come through.
3. Heat absorbing glass is an effective means of decreasing solar

heat gain. This blue-green glass is made with a special chemical composition which enables it to absorb solar energy. Much of this heat is dissipated back outdoors, so that less load is thrown on cooling equipment. For best results in west windows, therefore, *Thermopane* should have heat absorbing glass as the outer pane. This heat absorbing *Thermopane* reduces the heat gain through west windows approximately 50% as compared to single-pane, clear glass windows. This has been determined by calculations made for west windows at 4:00 P.M. in summer, when the sun is considered to be at its worst angle. By reducing the cooling load, heat absorbing *Thermopane* may even reduce the size of the air-conditioning equipment required for the home.

EAST AND NORTH WINDOWS

North windows rarely present a problem of radiant heat gain. Windows in the eastern elevation, if exposed to the morning sun, may require shading as suggested for western windows. An engineer's or architect's recommendations should be obtained on this.

TYPES OF SASH TO USE

Some architects and builders employ fixed sash in air-conditioned homes, relying on the heating and air-conditioning system to provide ventilation. In some cases, louvers or other kinds of openings are used for supplementary ventilation. Fixed sash are usually economical and they do away with the need for insect screens in windows. Standard picture window and window wall frames are available from a number of manufacturers through their dealers—frames of wood or metal. These frames take standard sizes of *Thermopane* insulating glass which is readily available from L·O·F Distributors and Dealers.

However, many people will insist upon having ventilating sash in their homes for psychological reasons and

because they may want to use natural ventilation in the more moderate seasons of the year. Their preferences can be satisfied with ventilating sash which take standard *Thermopane* units. These sash, of wood or metal, are available in all common types. Your L·O·F Glass Distributor or Dealer can furnish information about them and about standard *Thermopane* units for them. Or, write us if you wish more complete information on *Thermopane*, its standard sizes and types of sash for it.

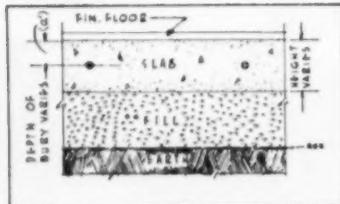
These two pages are a condensation of a brochure that covers the entire subject more fully with additional technical supporting data. We shall be pleased to have you write for a copy of "Glazing the Air-Conditioned Home".

Libbey·Owens·Ford Glass Company, 343 Nicholas Building, Toledo 3, Ohio

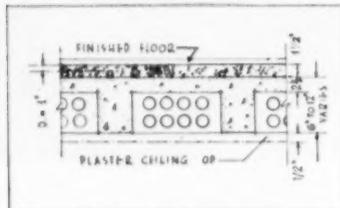


LIBBEY·OWENS·FORD *a Great Name in* **GLASS**

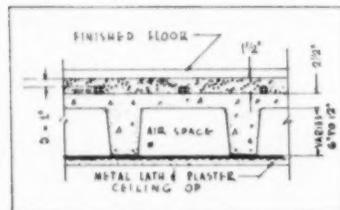
floors . . .



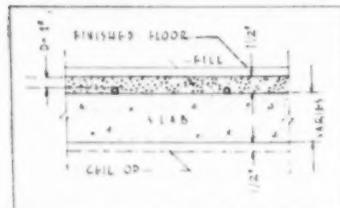
Concrete slab with 6" to 10" of gravel, stone, or insulating fill, tubes in slab. Dry earth or sand fill underneath. Finish floor may be tile, linoleum, wood or other.



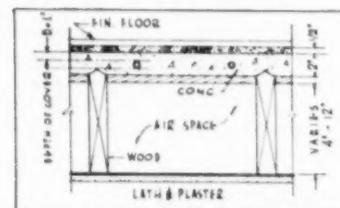
Intermediate floor panel with concrete slab, cement fill with hollow gypsum block fillers, tubes placed in fill. Ceiling below may be plain or plastered; finish floor may be ceramic tile, linoleum, or wood.



Intermediate uninsulated concrete slab with cement fill, concrete joists, an all "metal pan" system with tubes in fill. Hung plaster ceiling below. Flooring above may be wood, ceramic tile on slab, or linoleum on slab.



Uninsulated intermediate floor panel is concrete slab without fill, tubes in slab, with plain or plastered ceiling below. Finished floor above may be either wood, linoleum on slab, or ceramic tile.



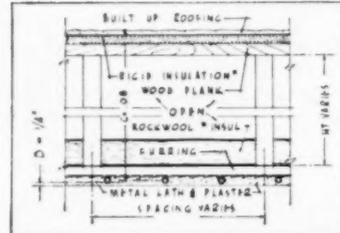
Intermediate floor panel has wood sub-floor, wood joists, light weight concrete slab with cement fill, tubes located in fill. Ceiling below is lath and plaster. Finish floor above may be linoleum or ceramic tile, or single wood directly on slab.

RADIANT PANELS

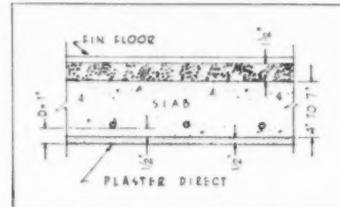
INSTALLATION PRACTICES FLOOR AND CEILING PANELS

1. Boilers should be automatically-fired. The control of water temperature in hand-fired installations is not close enough for panel heating.
2. Slab floors, whether or not they are used as a heating panel, must be provided with at least 1" waterproof edge insulation at least 24" deep or to the bottom of the frost line. The use of a waterproof membrane (vapor barrier) between the gravel fill and the slab is recommended.
3. All pits should be provided with drains.
4. Where panels do not cover the entire area of the floor or ceiling, the coil should be located near the exposed perimeter.
5. All pipe ends should be reamed.
6. Connections between pump and boiler should be as close as possible.
7. Wherever the size of pipe changes in a horizontal run, use an eccentric reducer, keeping the top side level.
8. Drains should be installed at all low points.
9. All high points should be vented. Vents should also be installed where the plane of the system changes.
10. Balancing cocks or valves should be used on each coil. They should be installed below traffic plates for floor panels, and with extended stems, if necessary, for ceiling panels.
11. A mixing or tempering valve should be used to control the temperature of the water to the heating system if the boiler is used also to supply domestic hot water. This valve should be connected in accordance with maker's recommendations.
12. A flow control valve should be used when the heating panels are above the boiler and the boiler is used also to supply domestic hot water.
13. A pressure relief valve should be installed on the boiler.
14. The air cushion tank should be located above the boiler.
15. Coils should be filled with water very slowly in order to vent them properly.
16. The entire piping system should be tested to a hydrostatic pressure of 100 p.s.i. for a minimum of four hours before being connected to the boiler and before being concealed.

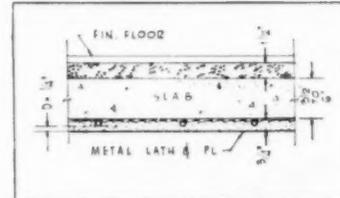
. . . ceilings



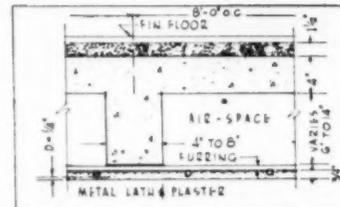
Insulated flat roof panel showing built up roof with wood deck, wood or steel trusses. Furring is required. Tubes in plaster below metal lath. To increase reverse conductance, add rock wool or equivalent insulation.



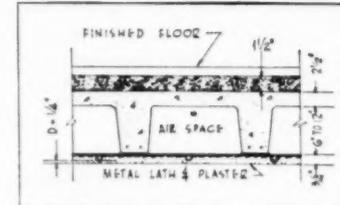
Uninsulated intermediate ceiling panel shows concrete slab with optional cement fill, tubes located in slab. Ceiling is gypsum plaster applied direct to slab. Floor above may be wood, linoleum or other.



Intermediate ceiling panel has concrete slab with cement fill optional. Tubes are located in the plaster which may be either gypsum or cement applied direct on metal lath.



Uninsulated intermediate ceiling panel shows cinder concrete slab and joists with optional cement fill. Tubes are in plaster below metal lath which is furred to slab. Add Rockwool or equivalent insulation to obtain reverse conductance.



Intermediate ceiling panel has concrete slab and joists—a prefabricated system. Cement fill is optional. Tubes are in plaster below metal lath which is attached directly to concrete joists.

17. Because of variable conditions, controls should be selected and installed in accordance with control manufacturers' recommendations.

FOR FLOOR PANEL SYSTEMS:

18. Coils should not be laid on nor come in contact with cinders or other corrosive fill.
19. Coils should start 6" from the exposed perimeter of a floor slab.

FOR CEILING PANEL SYSTEMS:

20. All ceiling panels should be backed by insulation whether or not there is heated space above. When panels are exposed to unheated space, at least 3 5/8" rock wool insulation or equivalent is recommended.
21. For ceiling panels it is advisable to design the coils so that the tube runs at right angles to the joists, which will give better support.
22. Coils should start 3" from the exposed perimeter of a ceiling.
23. Coils in ceiling panels should not be used to dry the plaster. The first time heat is applied in a new installation, the temperature of the coils should be raised only a few degrees daily.

Where coils go into ceilings, expanded metal lath is preferred for the plaster base, with the coil above the lath and attached to the joists. Where coils are below the plaster base, plastering time is usually tripled and much more plaster is required. Acoustical or other insulating tile should not be used for ceilings in which the coil is to be located. Panels installed in dead air space between floors are ineffective.

Insulation should be used to reduce heat flow in reverse direction to that desired. Where reflective insulation is used, the reflective surface should face the warm side but not be in contact with it; there should be an air space on both sides of the insulating material of at least 3/4-inch. Vapor barriers under floor panels are essential.

Leaks and corrosion of pipes present no greater problem than in other "closed systems." The choice of piping is unimportant from the standpoint of heat output, but per foot cost, plus installation cost, and labor must be considered. Size of pipe has little to do with heat output either, but definitely determines booster pump capacity required.

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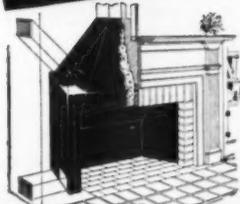
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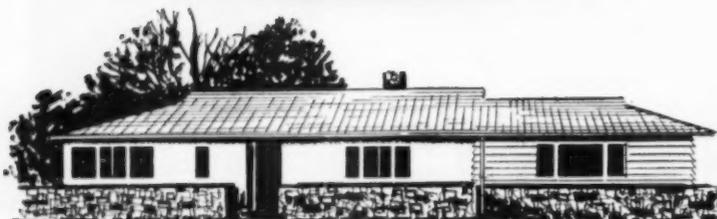
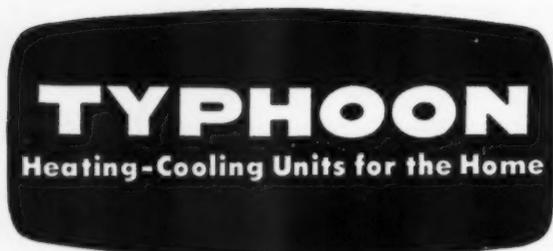
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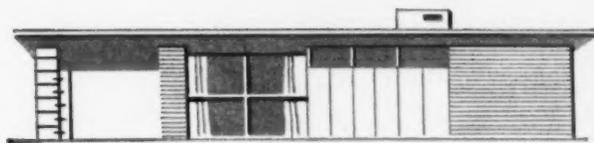


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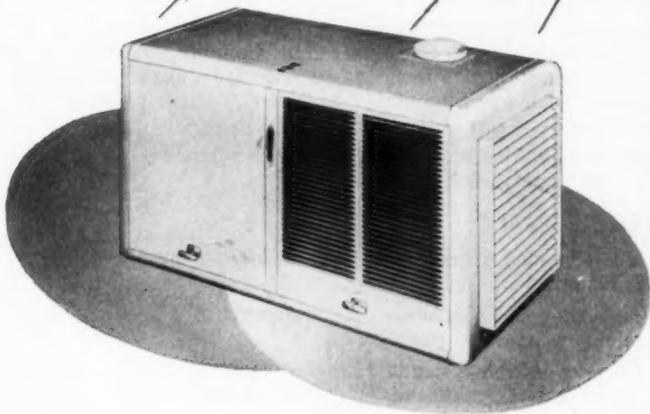
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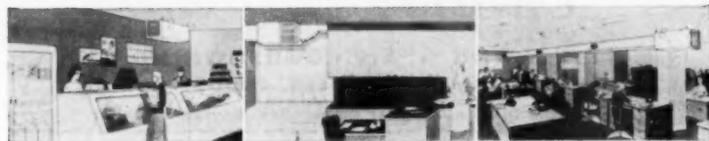
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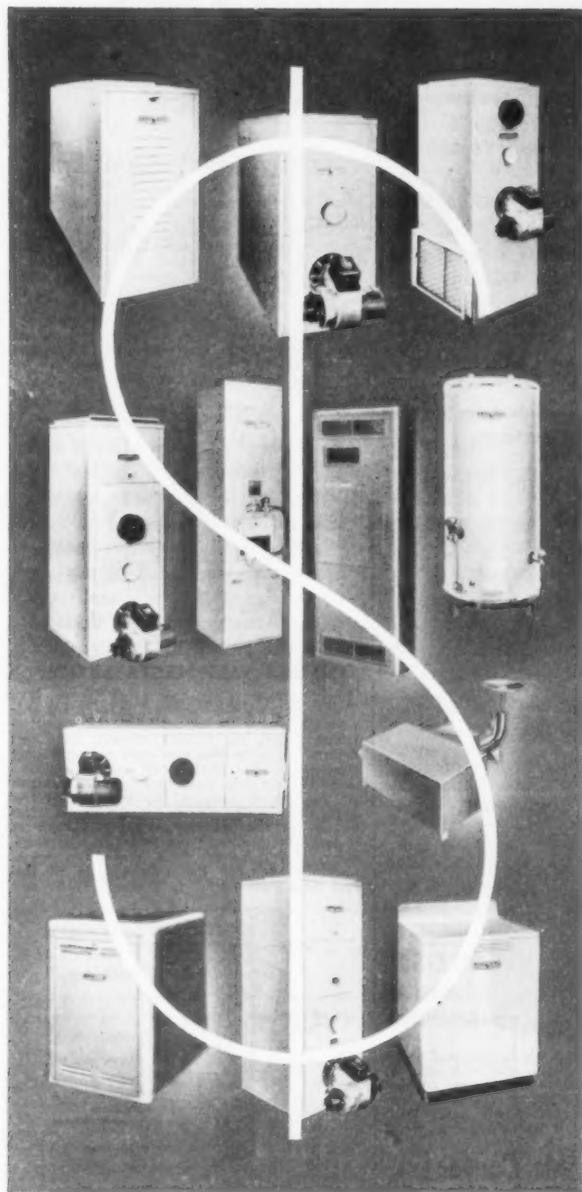


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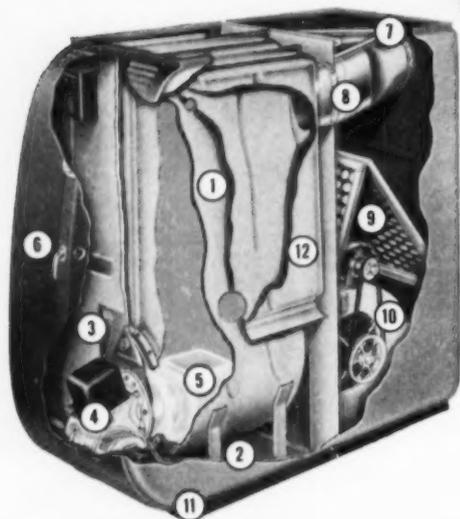
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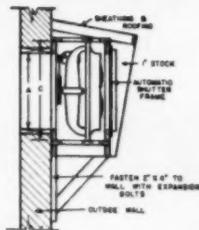
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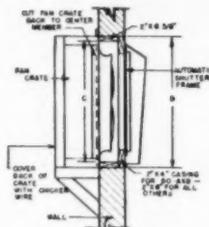
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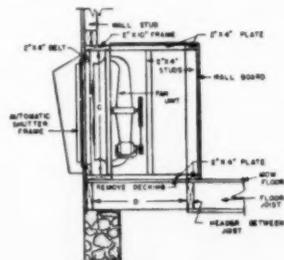
OUTSIDE WALL INSTALLATION

Fan may be mounted on the outside of the barn wall. Housing may be constructed merely by covering the shipping crate with roofing or drop siding, or by building a simple metal box of 20-gauge galvanized iron, as shown above. The fan is bolted to an angle iron frame which is spot welded to the inside of the metal fan box. Depth of the fan box may be reduced where it is possible to extend the unit into the wall opening. The automatic shutter fastens to the front of the housing with metal screws.



INSIDE WALL INSTALLATION

The fan may be mounted merely by setting the unit in a wall opening of the proper size, as shown above. The fan orifice projects into the wall opening and the automatic shutter is mounted flush with the outside wall line. Overall depth of the fan is reduced by cutting off the shipping crate close to the steel fan frame on the discharge side. Construct a light frame the same size as the shipping crate, cover with protective wire, and fasten over the intake side of the fan as a guard.



HAY MOW INSTALLATION

Cutting wall openings in heavy masonry construction may be avoided by mounting the fan above the mow floor. See table above for dimensions of the floor and wall opening. Build a housing to connect the fan to the floor opening. The fan is removed from the shipping crate and mounted on the 2" x 10" frame. Fasten the unit in place with 1/4" x 1 1/4" lag bolts, using present holes in flange of the steel frame. Since the vent box is usually covered with hay, the fan is serviced through the four openings.

Hunter Fan Data

AMERICAN BUILDER

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HAD BETTER LOOK INTO THIS!



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- Heating Section is gas-tight from burner to flue . . . 100% welded. Especially designed Tubes extract maximum heat from fuel. Burner has raised ports, is non-clog.
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- Convenient Manual Control . . . it regulates main burner without interference to auto-control operation.
- All sizes of Heaters are shipped as Basic Models. Thus, Automatic Controls can be drawn from modest stock . . . are easily installed, as required.

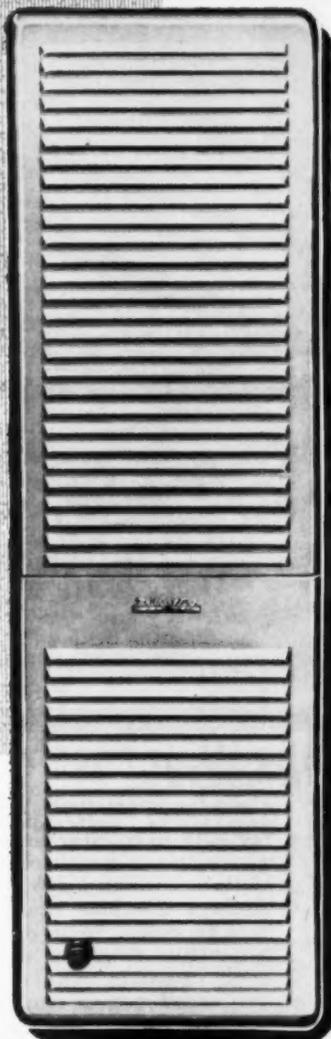
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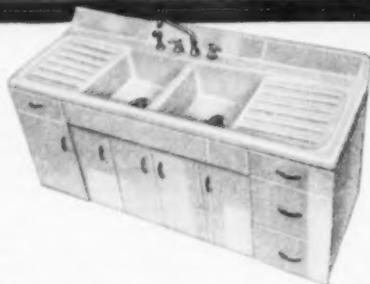
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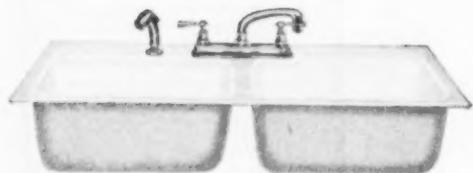
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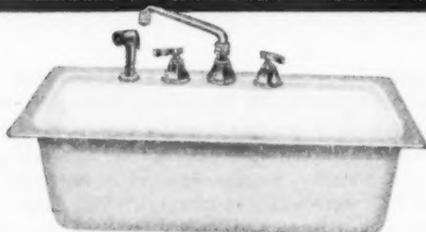
Richmond Serbin No. 1585—Double compartment, double drainboard with ledge-back. Sizes: 72" x 25" and 60" x 25". **Servilla No. 1535**—Single compartment, double drainboard with ledge-back. Sizes: 60" x 25" and 54" x 25". **Seymour No. 1537**—Single compartment, double drainboard with ledge-back. Sizes: 60" x 22" and 54" x 22".



Richmond Schenley No. 1550—Single compartment, single drainboard with ledge-back. Size: 42" x 25". No. 1550—Left drainboard; No. 1552—Right drainboard. **Sawnee**—Single compartment, single drainboard with ledge-back. Size: 42" x 22". No. 1554—Left drainboard; No. 1556—Right drainboard.



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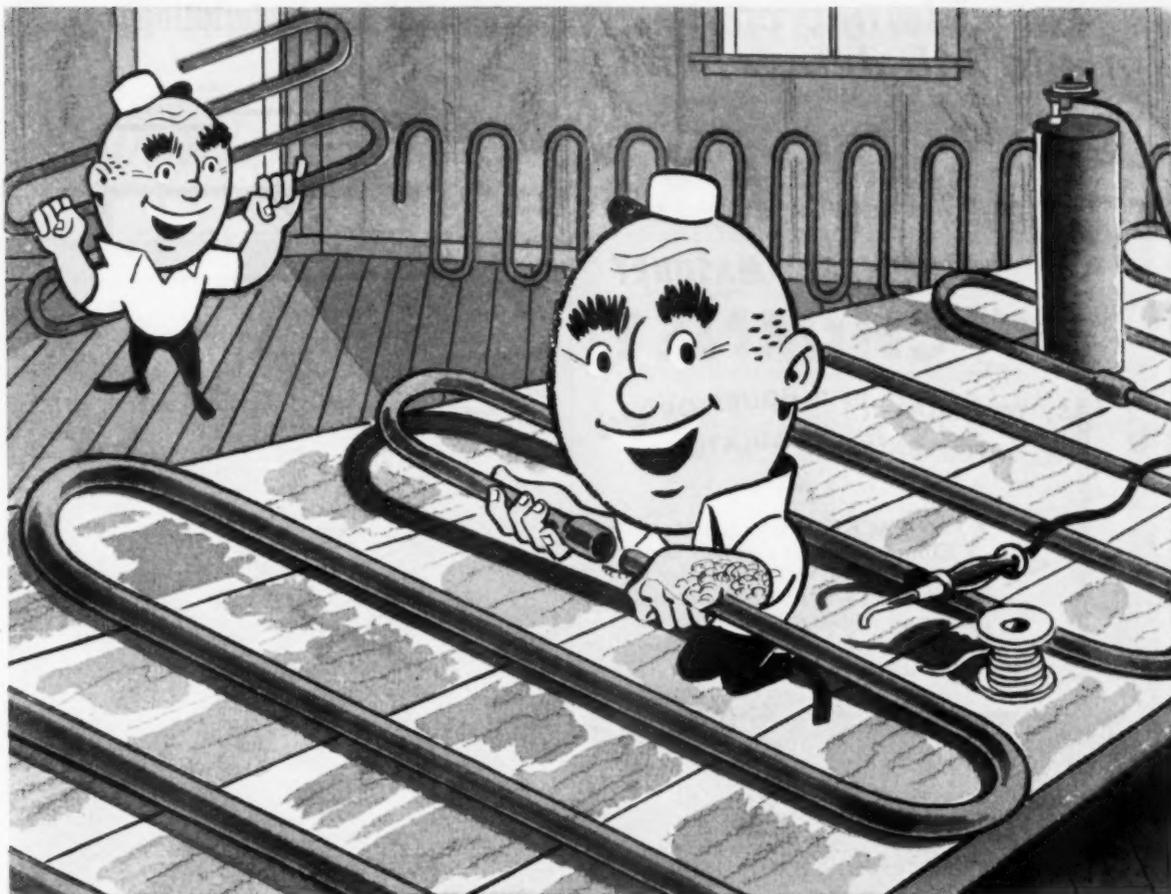
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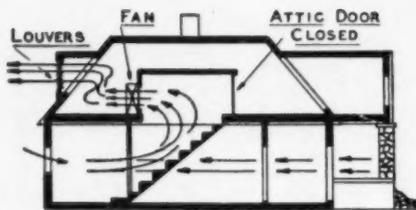
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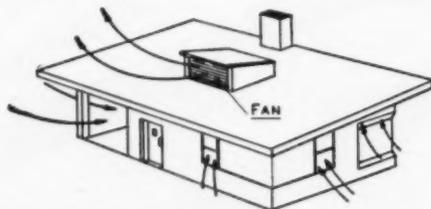
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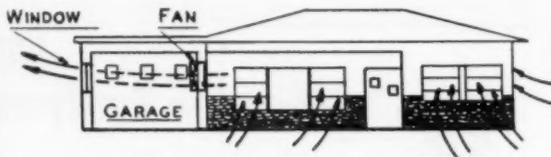
Fan Installed Over Stairway

Homes which have a stairway to the attic are often enclosed as illustrated above. The fan is mounted over an opening in the enclosure, eliminating the necessity for a ceiling shutter or grille. By keeping the door to the attic closed, air is drawn through open windows in rooms below, exhausted into the attic, and forced out through attic discharge openings.



Fan Installed in Louvered Pent-house

Flat-roofed buildings usually require cooler fans more than any other type of structure since heat radiates from the roof directly into rooms below. A penthouse of either wood or metal may be constructed over a centrally located ceiling opening. Fan may be installed either vertically or horizontally, exhausting directly outdoors through a louvered opening. Ceiling shutters are available for either horizontal or vertical installation.



Fan Installed in Attached Garage

Attached garages often prove a desirable place to locate the home cooler fan. This is particularly true in modern homes with roof-line ceilings or butterfly roofs and without basements. The fan is mounted in the garage, outside the house wall opening with a suitable grille on the room side of the home. By building a housing around the fan frame, an automatic outside shutter may be mounted in front of the fan to close the opening when the fan is not being used.



Fan Installed in Basement Window

When the usual attic or roof installation of a home cooler fan is not practical, the basement may provide a suitable place for installing the fan. If basement windows are large enough, the fan may be mounted directly on the window frame or a suitable opening made and equipped with an automatic outside shutter.

Courtesy Emerson Electric Co.

AMERICAN BUILDER

B & G Hydro-Flo Heating OFFERS ALL THESE

Extra Advantages

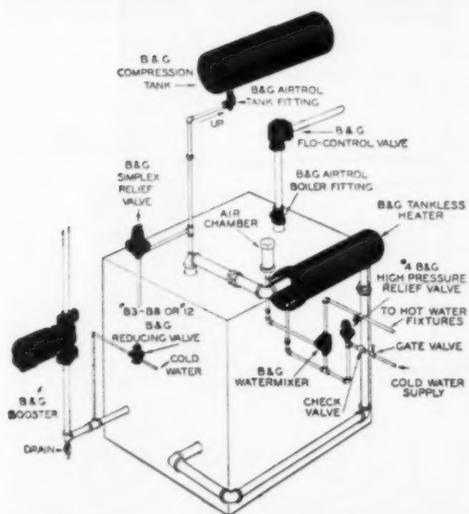


The family in this illustration is enjoying four comfort advantages of B & G Hydro-Flo Forced Hot Water Heating.

First, *radiant sunny warmth!* Second, the area around the low picture window is comfortably heated. Third, room air temperature from floor to ceiling and wall to wall is virtually uniform. And finally, the floor is warm.

Now add this! Regardless of how the weather changes, the temperature in this home will remain constantly at the comfort level. The *variable* water temperature of B & G Hydro-Flo Heating permits close matching of the heat input with the heat loss... *assuring more comfort on less fuel!*

For the complete story, send for booklet "Capture the Sun with B & G Hydro-Flo Heating."



Typical B & G Hydro-Flo Forced Hot Water Heating installation with tankless domestic water heater.



Another extra advantage— snow melting!

The home or building with B & G Hydro-Flo Heating can be equipped with an auxiliary snow melting installation. Hot water from a heat exchanger connected to the boiler is pumped through pipe coils under the sidewalks, melting snow as fast as it falls. Another back-breaking job eliminated!

Plus year 'round hot water

The heavy domestic hot water load imposed by modern automatic clothes and dish washers is easily handled by a B & G Hydro-Flo Heating System. The Water Heater unit, heated by the same boiler that heats the house, provides ample quantities at low cost—24 hours a day—winter and summer.



BELL & GOSSETT

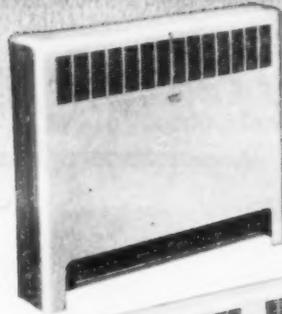
COMPANY

Dept. CX-11, Morton Grove, Illinois

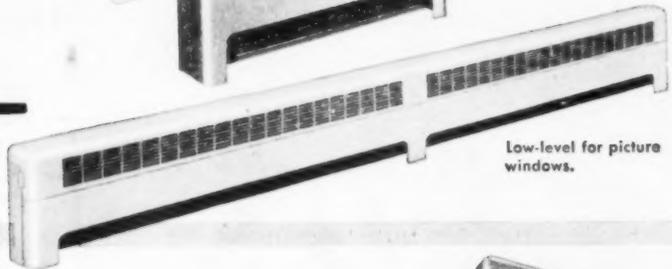
Canadian Licensee: S. A. Armstrong Ltd., 1400 O'Connor Drive, Toronto



CONVECTORS

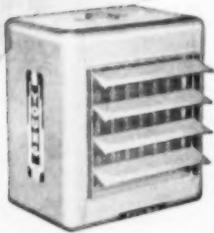


Standard free-standing, wall-hung, semi-recessed and fully recessed types.



Low-level for picture windows.

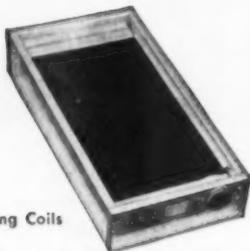
UNIT HEATERS



For Use With Steam or Hot Water

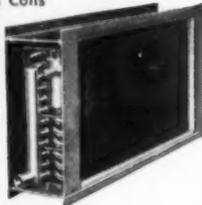
Gas-Fired

COILS



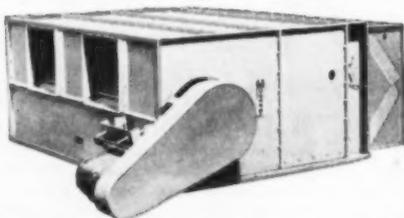
Heating Coils

Cooling Coils

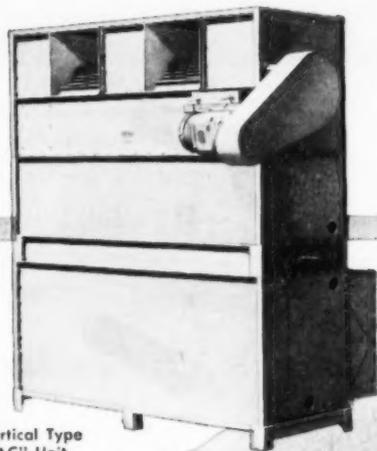


AIR CONDITIONING UNITS

Horizontal Type "YAC" Unit



Vertical Type "YAC" Unit



YOUNG
YOUNG RADIATOR COMPANY

DEPT. 703-D, RACINE, WISCONSIN

Factories at Racine, Wisconsin and Mattoon, Illinois
 Sales and Engineering Offices in All Principal Cities

Heating, Cooling, and Air Conditioning Products for Home and Industry.

Heat Transfer Products for Automotive and Industrial Applications.

(Continued from page 264)

Radiant Heating With Warm Air

Radiant heating with warm air is accomplished with a closed system utilizing air instead of water but channeling it through ducts from furnace-heating chamber and returning cooler air to the furnace, much as hot water is carried through the closed hot water systems.

It is assumed that air and water flow in much the same manner; consequently, with the first duct or tile channel supplied with warm air being the last to return to the furnace, grids or ducts are laid out to insure uniform air flow.

Most standard forced warm air furnaces can be used, except that filters and automatic humidifiers are unnecessary. Floor ducts can be tile, brick baffles, or other inexpensive materials. For economical and comfortable operation, systems should be designed for floor temperatures of 85 degrees F. maximum.

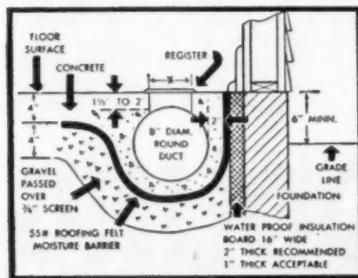
One important consideration is heat loss off the end of the slab. Insulation should be provided here as well as below the floor ducts to prevent heat loss and moisture and vapor accumulation.

Calculations necessary to install such a system include heat loss, furnace bonnet temperature and entering air temperature at channels, C.F.M. of blower and static head against which it is to discharge.

Perimeter Warm Air Heating

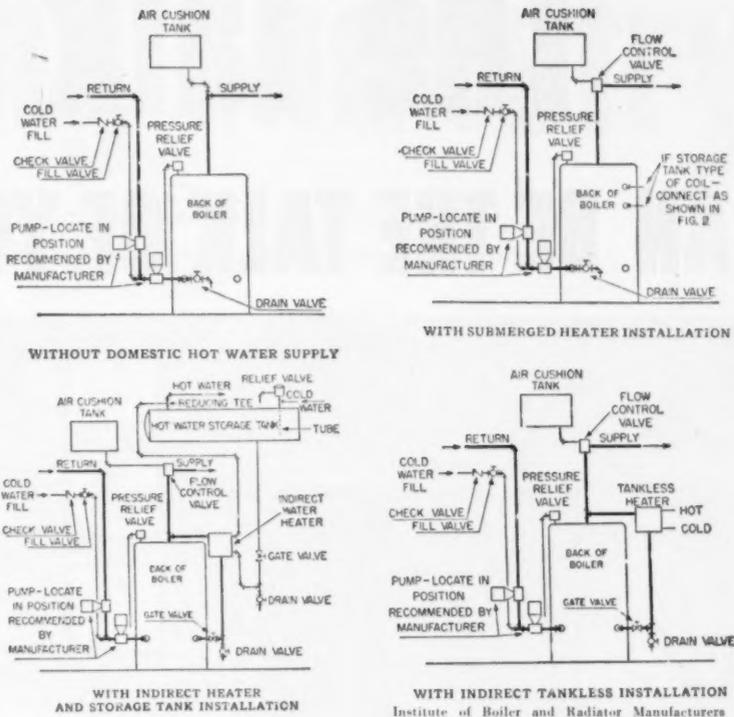
Perimeter warm air systems heat homes comfortably by adding enough warmth to replace the heat which is lost at the points where it is lost. The heat is directed particularly at outer wall areas which, with windows and doors, are responsible for most heat loss. In fact, outside walls in the typical one-story house account for 30 per cent of heat loss, doors for 16.4 per cent and windows for 32.6 per cent making a total of 79 per cent at these three points.

The National Warm Air Heating and Air Conditioning Association has prepared a series of definitions and



Cross section details of construction units for properly installed perimeter duct

typical boiler connections . . .



In all cases, supply should be connected to front tapping in top of boiler.

descriptions of various types of perimeter warm air heating. These include:

Crawl Space Duct System. With a home built over a crawl space, the system is suspended from floor joists. Branches from furnace plenum or extended plenum end in registers placed below windows and along outside walls.

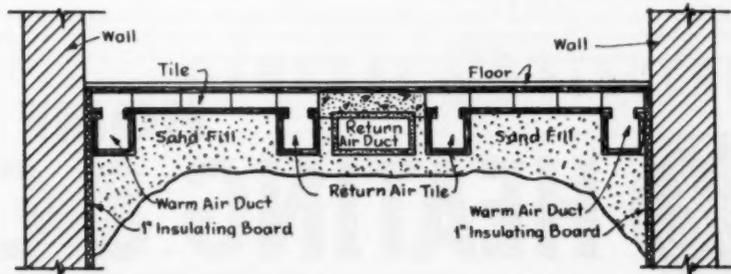
Loop System. For homes built on concrete slab set directly on the ground, warm air ducts embedded in the slab follow the outer wall of the building in a continuous loop supplied by feeders from the furnace plenum chamber. Registers are below windows. Floor surfaces radiate some heat also.

Crawl Space Plenum System. The entire crawl space is used as a warm air supply plenum. Stub ducts from furnace plenum chamber direct air currents to window registers.

Radial System. Houses with either crawl space or slab construction can use this system, which has individual ducts from furnace chamber reaching each window or wall register.

Lateral System. This layout places the furnace at one end of the building, in the center, with an extended main channel or duct running the length of the building down the middle. Every few feet, tile ducts branch off at right angles to both sides and conduct air to wall registers running the length of the building.

(Continued on page 286)



SECTION DRAWING showing detail of floor construction and tile duct system. Although this floor is designed for tile, there are other common materials that may be used

The Talk of the CAN BE THE TALK OF YOUR TOWN!



G-E YEAR-ROUND AIR CONDITIONER

HERE IT IS—the new, all-new, *really small* G-E Year-Round Air Conditioner—exactly as seen by the thousands of enthusiastic home builders who thronged the G-E exhibit at the 1953 NAHB Show in Chicago. Builder after builder told G-E representatives it's just what the industry ordered! Heating and Cooling from a single, small packaged unit they can locate anywhere.



HOME HEATING & COOLING

WITH **AIR WALL*** SYSTEM

Building Industry

G. E.'s new Year-Round Air Conditioner uses as little as 8.2 sq. ft. of floor space—with over 190 model choices—for every size home and every climate!

THE AIR CONDITIONER BUILDERS ASKED FOR!

Hottest news at the 1953 Builders' Show—the new, all-new G-E Year-Round Air Conditioners are big, exciting news wherever new homes are being built. That's because this sparkling new unit was built to satisfy builders—and their customers! Builders have a wonderful new way to speed home sales, plus a unit with G-E dependability that cuts costs and saves space. Homeseekers get the perfect answer to their long-expressed desire for automatic summer cooling and winter heating in the entire home.

SMALLER THAN YOU'D BELIEVE POSSIBLE! No. 1 hit with builders is G-E's compactness. You save valuable dollars in floor space! Most popular size takes only 8.2 sq. ft. of floor space; all sizes, even the largest, are only 55" high and 30" deep. You get full capacity cooling and heating from a unit you can tuck away anywhere—closet, utility room, crawl space, garage, or basement. You'll save on installation and handling too! Units are light, can be carried through an ordinary door.

FOR ANY SIZE HOME—ANY CLIMATE! G. E.'s line features complete flexibility! There's a unit to fit your home as designed! No need to design homes around the unit. Over 190 models to choose from...choice of fuel—oil or gas...choice of power supply. Works well with conventional ducts, or get extra benefits with G-E's unique Air-Wall System. G-E engineering provides just what you need!



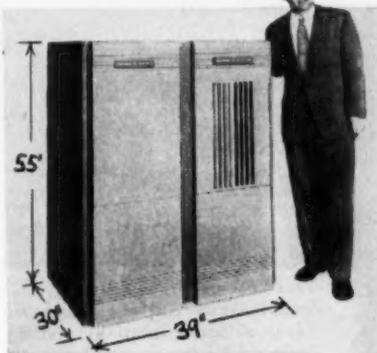
G-E Air-Wall System gives extra benefits! Perfect for both heating and cooling! Many construction savings possible with this pre-engineered, space-saving, small-duct system. Same registers deliver both cooling and heating, eliminating high-wall outlets. Air is spread upward—never blasted straight out. Blends beautifully with any setting, allows full freedom of furniture and drapery arrangement. No carpet-cutting required.

FOLKS ENJOY LIVING WITH A G-E! It's handsome, with an attractive two-tone finish that enhances the beauty of any decor. It's whisper-quiet—for the whole cooling system is hermetically sealed in steel and spring-mounted internally to eliminate vibration. It's fully automatic. At the flick of a finger, you get cool, dehumidified air through the entire home in summer. In winter, wonderful, economical warmth! You're assured of dependability with G. E. Every cooling mechanism is factory-sealed and backed by G. E.'s generous 5-year Protection Plan!

G. E. HELPS YOU MERCHANDISE YOUR HOMES! G. E. is interested not only in selling air conditioning, but in helping you sell your homes! We're ready to cooperate with you in local advertising, publicity, and model home promotion with the most complete line of home-selling aids in the business!

G. E. OFFERS A COMPLETE LINE of furnaces and boilers for oil and gas, warm air, hot water, steam or vapor—all designed to give economical comfort—all backed by G. E.'s reputation for dependability.

Heating and cooling from single, small, factory-packaged unit! All models only 55" high, 30" deep. Width varies from 39" to 74" depending on capacity. Over 190 combinations to choose from. Cooling from 2 to 5 tons. Gas heating from 48,000 to 168,000 BTUH output. (Types of gas: natural, mixed, mfd., LP and LP-air.) Oil heating from 60,000 to 155,000 BTUH output. Installation anywhere in your homes is simple, fast. Unit uses as little as 8.2 sq. ft.!



GENERAL  ELECTRIC



General Electric Company, Air Conditioning Division, Sec. AB-18, Bloomfield, New Jersey

Please send me free booklets on Year-Round Air Conditioning

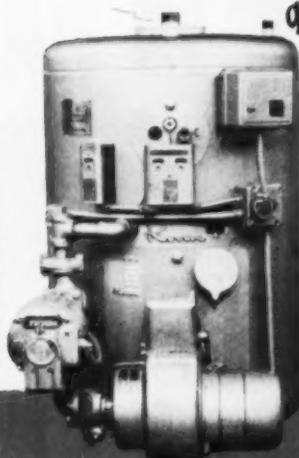
Please have my G-E dealer tell me the complete G-E story

NAME.....
 TYPE OF BUSINESS.....
 ADDRESS.....
 CITY..... COUNTY..... STATE.....

*Reg. Trademark of General Electric Co.

**speedy
INSTALLATION**

quick as
hello and
goodbye



means more
Value
for your
customers—
more
profit
for you

WITH A

VENKO GAS or OIL-FIRED
PACKAGED UNIT

by **Koven**

- SAVES INSTALLATION TIME** — comes fully wired and equipped
- SAVES HANDLING TIME** — shipped in easy handling, protective crate which won't warp in national competition
- SAVES SERVICING TIME** — only 2 parts to remove
- SAVES SPACE** — compact — rugged — beautiful
- ECONOMICAL HEAT AND HOT WATER** — 3 sensitive controls

Venko permits you to feature greater comfort and lower operating cost. At the same time, it eliminates hours of costly labor by coming completely equipped for speedy installation with burner, circulator and controls in place ready to operate. Further, Venko's crate, designed to fit through a 30-inch door, enables one man to handle the entire unit. Don't by-pass profit. Check and see how Venko can enlarge your sales picture.

NATIONALLY ADVERTISED

Built to fit the modern home

WATERFILM BOILERS, INC.
a division of **L. O. KOVEN & BRO., INC.**
154 Ogden Ave., Jersey City 7, N. J.
Plants: Jersey City, N. J. • Dover, N. J.

Now you can Choose
AIR-KING Ventilating
Fans ...

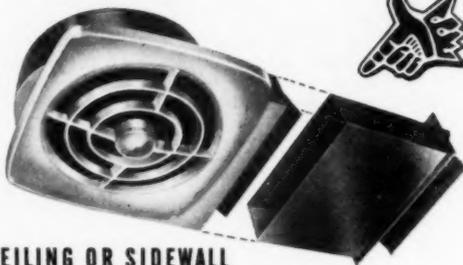


for every purpose
— in any size
and price range

wall switch controlled

low cost model **AUTOMATIC SIDEWALL**

Now available at the same price as pull chain models! Weatherproof outside hood protects against ice, snow, wind and rain—encloses scientifically counter-balanced, exclusive "Flutter-Free" shutter that automatically opens and closes when fan starts and stops. **Wall Switch controlled**—single or three speed (extra). Unscrewing of center grill knob removes grill for easy cleaning. Motor and blade completely removable by merely loosening two wing nuts. In 8-inch and 10-inch models for walls 4½" to 28" thick. Sparking white or chrome finish. **Full 5 year guarantee.** WF8C, WF10 and WF10C...priced as low as \$27.55



FOR CEILING OR SIDEWALL

- Only 3½" deep over-all
- Blower-type blade

Most attractive, powerful, versatile kitchen fan available. New blower-type pressure blade maintains high air exhaust volume in long ducts. Mounts in ceiling or sidewall. Grill removes by merely unscrewing center grill knob. Outside frame will never warp or rust. Model CF8C especially recommended where low cost is a deciding factor. In White Enamel or Chrome finish. Available with 3-Speed Control switch (extra). **Full 5 year guarantee.** CF8C, CF10N and CF10NC...priced as low as \$27.95 complete with Wall Cap.



ECONOMICAL PULL CHAIN MODELS

Where wall switch is not desired, this powerful, economical pull chain model is highly efficient. Eliminates wall switch installation cost. Outer frame will never rust or warp fan housing. Grill easily removed by merely unscrewing center knob. Motor mounted on one bracket—motor and blade completely removable by loosening just two wing nuts. Available in 8" and 10" models; white enamel or chrome finish for walls 3½" to 16" thick. **Full 5 year guarantee.** KF8N and KF10N...priced as low as \$27.55



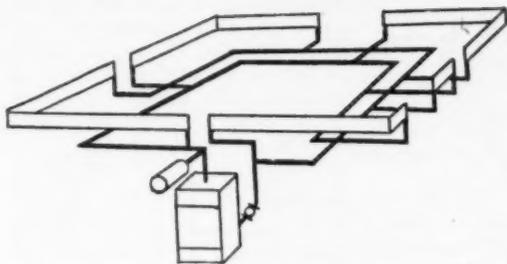
Listed in Sweet's Catalog or ask your Wholesaler.

Complete catalog available by writing to

BERNS MFG. CORP. 3050 N. ROCKWELL ST., CHICAGO 10, ILL.



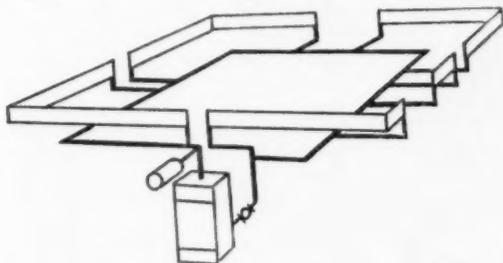
baseboard heating systems



(Burnham Corp.)

Two-pipe forced circulation hot water system

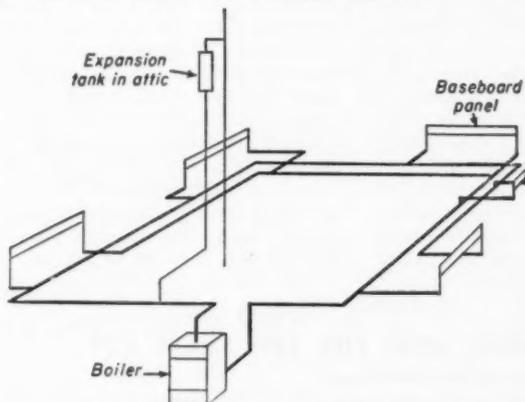
Two pipe, forced circulation hot water systems of baseboard heating require separate supply and return mains. Each baseboard panel circuit is more or less the same length. Temperature and friction losses are roughly equal. Careful layout can hold the additional piping required by these systems to a minimum.



(Burnham Corp.)

One-pipe forced circulation hot water system

One pipe, single circuit, forced circulation hot water systems are ideal for small homes with low heat loss rate. One pipe, double circuit, forced circulation systems are usually required for larger dwellings. The separate circuits are supplied by a trunk which runs from the boiler to the supply main and has Btu carrying capacity equal to the combined circuits.



Two-pipe gravity-fed hot water system

Two pipe, gravity fed, hot water systems require larger piping than forced circulation systems and operate at lower temperatures. These systems are normally vented to the atmosphere, and steam or vapor will form when the water reaches boiling point. As a result, there may be excessive water loss if the system is operated at above 200° F.



Yours
for the
asking



... this new, authoritative handbook — based on the latest research in gas appliance venting

When you install gas burning appliances, you'll want this useful handbook containing complete, up-to-date information on gas venting practices plus many helpful installation tips. The findings presented are based on extensive engineering research recently completed by the Metalbestos Division, William Wallace Company, with the assistance of Stanford Research Institute.

Here are some of the subjects' covered:

- **Fundamental Rules of Venting** Amply illustrated throughout — and indexed for convenient reference — this handy pocket-size booklet will be an invaluable aid to anyone who specifies, sells, installs or services gas burning installations.
- **Determining Correct Vent Sizes and Capacities**
- **Choosing the Location of Vertical Vents**
- **Rules for Venting Various Types of Appliances**
- **Vent Installation Tips**

Send for your free copy today! No obligation.



METALBESTOS DIVISION
WILLIAM WALLACE COMPANY · BELMONT, CALIF.

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Please send me with-

out cost, _____ copies of VENT INSTALLATION HANDBOOK.

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COMPANY _____

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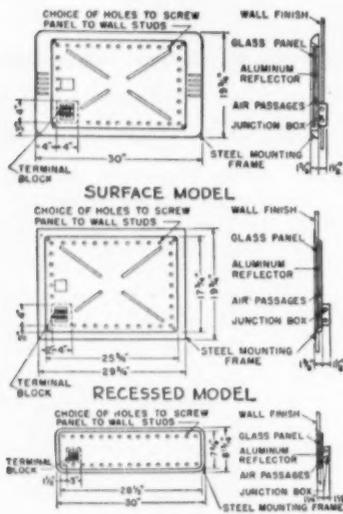
STATE _____

(Continued from page 281)

Glass Wall Panels

One of the newer developments in radiant heating has been the use of glass wall panels. The units consist of rectangular glass panels $\frac{1}{4}$ inches thick with an aluminum grid fused to the back of the glass. The glass is almost impossible to break. An aluminum reflector is placed between the glass panel and the back of the mounting frame. Electricity passing through the grid raises the temperature of grid and glass panel to as high as 340 degrees F. Temperature differentials cause air to circulate through vents at the top and bottom of the panel, thus heating by a combination of convection and radiation. Thermostats provide automatic operation.

Tests indicate that such units, properly installed, will operate efficiently, and can be used economically where the kilowatt rate is two cents or less. In houses heated by other means, individual panels can be useful for spot-heating of bathrooms and similar locations. They are also useful in commercial installations.

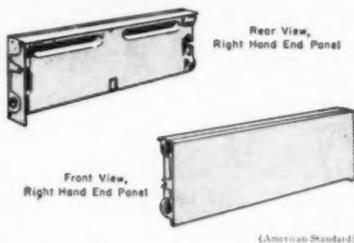


BASEBOARD MODEL.
ABOVE THREE TYPES of electrical radiant glass panels with details of construction and insulation

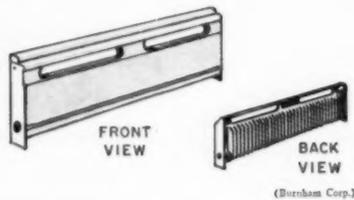
Baseboard Heating

Baseboard heating, which furnishes heat both by radiation and convection, can be installed as a complete system or as an adjunct to other heating devices. A high percentage of heat from baseboard panels is distributed by radiation, which reduces rising warm air currents and the wall-streaking common with ordinary radiators.

Baseboard panels can be used effectively with one-pipe hot water systems, two-pipe forced hot water,



Above: Type "R" cast iron baseboard panel. Below: Type "RC" cast iron baseboard panel with fins at back to increase heat transmission



two-pipe gravity hot water, and two-pipe steam systems. They cannot be used with one-pipe steam systems because of venting and condensation problems.

Baseboard panels come in three basic types, each of which requires that substantial wall areas be well insulated wherever the panels are placed. Convector types consist of finned tubing or pipe within a baseboard style metal shell. These may either be single or double core and the shell may have dampers built into it at grill or openings. Type R panels are cast iron, water backed, without fins. Type RC is cast iron but has fins

attached to the back and slots at the top to aid in convection.

Some of the advantages of baseboard heating include fuel economy, lower temperature differentials, cleanliness, fitting into decorative schemes easily, added floor space, lower maintenance costs, fittings and piping easily accessible, and satisfactory comfort.

Air Conditioning

Air conditioning is the control of temperature and humidity; it also includes the control of air motion and distribution, and cleans the air. The simpler type of air conditioning for homes involves the use of attic fans of various types, including home cooling fans with plenum chamber (suction box), which cool the house in summer by providing proper ventilation. Ceiling ventilators are also in this class.

Winter air conditioners are furnaces which send forced air, heated, humidified and filtered clean to each room.

Year-round air conditioners for homes are units which provide: (1) summer cooling, (2) dehumidification for summer temperatures; (3) winter heating; (4) humidification for winter temperatures; (5) air cleaning—a filtering out of dust, pollen, soot, and lint the year 'round; and (6) air circulation with ventilation—a draft-free flow of clean air, providing uniform temperatures.

Self-contained air conditioners are package units which give summer cooling, dehumidification, filtering (also air circulation and ventilation when installed with an outside connection). They are designed for individual rooms and can be used with duct work or installed directly in the space to be served. Self-contained units are also available which give year-round air conditioning for individual room areas, heating as well as cooling.

Several manufacturers now have available small capacity air conditioning units adaptable for installation in small, low-priced houses.

CLEARANCE IN INCHES REQUIRED FOR SAFETY. VENT PIPE AND SMOKE PIPE.

(From National Fire Protection Association and Underwriters.)

TYPE OF ADJACENT MATERIAL	GAS FUEL				COAL OR OIL	
	Furnace or Boiler		Water Heater—Space Heater Floor Furnace		Metal Shield 1" from ceiling	Without metal shield
	Metal vent	Type B vent	Metal vent	Type B vent		
Exposed Woodwork	6	1	9	3	12	24
Wood Lath and Plaster	6	1	9	3	9	18
Incombustible Lath and Plaster	1	1	1	1	6	9
Masonry or Concrete	1	1	1	1	1	1

Courtesy Surface Combustion Corp.



*April
Showers
every day
in the
year!*

For a refreshing shower with crystal-clear water and full-pressure... your home should have hot and cold water lines of Chase Copper Water Tube and Fittings.

Chase Copper Water Tube delivers a full flow of water. It can't clog with rust... it resists corrosion. Whether you're building a new home or replacing old pipe, use durable copper. For long life, at low cost, it's a far better buy than rustable pipe.

Ask your architect, builder or plumbing contractor about Chase Copper Water Tube. It's available through Chase plumbing and heating wholesalers served by 23 Chase warehouses across the nation. Chase Brass & Copper Co., Incorporated, Waterbury 20, Conn.

Chase



The Nation's Headquarters for
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subsidiary of

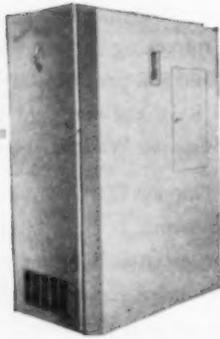
KENNECOTT COPPER CORPORATION

ANOTHER CHASE QUALITY STORY

This compelling ad is one of a series telling the Chase quality story to 15,872,000 readers of the Saturday Evening Post and other national magazines. It sells your clients on the quality of your services when you recommend Chase Copper Water Tube and Fittings.

CHASE BRASS & COPPER CO., WATERBURY 20, CONN., Warehouses and Sales Offices at: — Albany† Atlanta Baltimore Boston Chicago Cincinnati Cleveland Dallas Denver† Detroit Houston Indianapolis Kansas City, Mo. Los Angeles Milwaukee Minneapolis Newark New Orleans New York Philadelphia Pittsburgh Providence Rochester† St. Louis San Francisco Seattle Waterbury (†sales office only)

**BURNHAM
PACEMAKER**



A BOILER CAN SELL OR UNSELL A WELL DESIGNED HOME

Check the advantages of these two Burnham leaders. You can specify either with complete assurance. Both are the product of 80 years of experience in making fine boilers.

PACEMAKER*—Here's the oil-fired boiler that hit the jackpot of popularity because its high quality and fine performance belie its low competitive price. Its double combustion chamber and vertical flue travel over hundreds of heat grabbing fins, its large direct heating surface make it a highly efficient heating plant. It's made of cast iron for long, trouble-free service.

YELLO JACKET—The quality and performance of this all-fuel boiler are unbeatable. Its low fuel consumption is a direct result of its exclusive Burnham double combustion chamber design. That means long vertical, lateral and horizontal fire travel over hundreds of heat-hungry fins. Dependability, long life and safety are other factors that make this very popular boiler a heating plant you can be proud to sponsor. * Reg. U.S. Pat. Off.



Both boilers available with attractive two-tone flush or extended jackets. Both can be equipped with all copper coils for year 'round domestic hot water supply, either tankless or storage type. Mail the coupon for full details. Rated in accordance with L&R rating and testing code.

**BURNHAM BOILERS WEAR LIKE IRON,
BECAUSE THEY ARE MADE OF IRON**



**BURNHAM
YELLO-JACKET**



**Burnham
Corporation**

Irvington, New York
FIRST IN THE MANUFACTURE
OF BASEBOARD HEATING

BURNHAM CORPORATION AB-43
Irvington, New York
Please send full information and ratings for

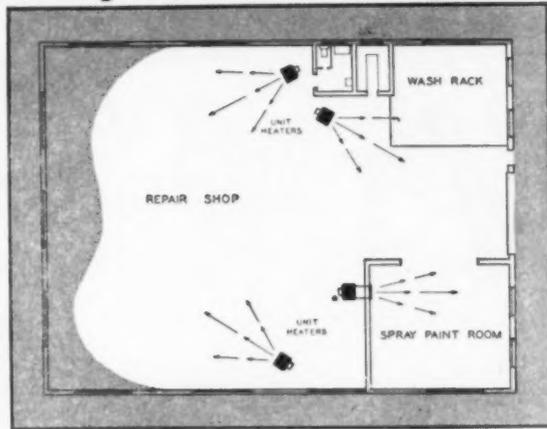
PACEMAKER YELLO JACKET

Name

Address

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

heating commercial buildings

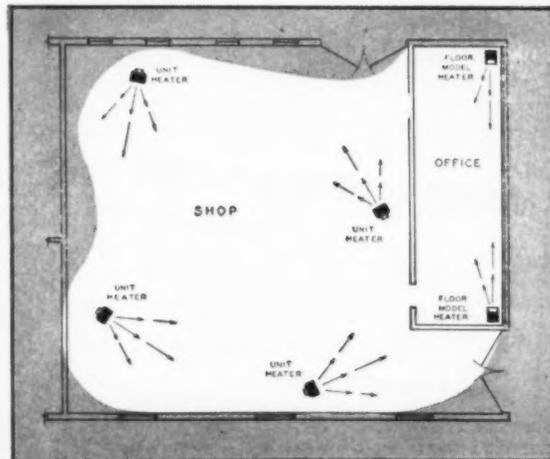


Heating commercial buildings requires consideration of the size and type of building, its functions, space requirements and limitations, installation costs and maintenance costs, as well as operating problems. For any small commercial structure, the heating plant should be calculated to cost roughly 10 per cent of the total cost of the building; otherwise, heating may prove inadequate.

The simplest structure to be heated is the small monitor building occupied by a neighborhood service business. Floor space is usually at a premium, and heating must be economical and not take up space. For this purpose, floor furnaces, unit heaters, or radiant panel constructions have proved desirable.

Another type of one-story commercial building has its space divided typically into showrooms, offices, and workshops—for example, commercial garages. Direct-fired unit heaters, or combinations of unit heaters with self-fired radiators can be used. Forced air heating will give satisfactory results, as will central steam and hot water systems with radiators or convectors. Radiant panels installed in the floors will also give good service.

The third main type of small commercial building is the multi-story multiple purpose building with first floor used for offices or warehouse space, with offices or living quarters above. This type often encounters the problem of different tenants trying to regulate heat in their own quarters by turning off radiators, partially closing them, opening windows and wasting heat. Two-pipe steam and both one and two-pipe hot water systems usually prove most effective.



Janitrol Data

AMERICAN BUILDER

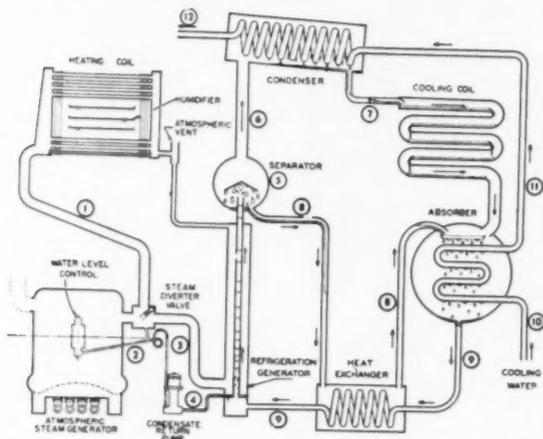
"ALL-YEAR" AIR CONDITIONER

Heat is provided for the absorption refrigeration unit in the form of steam at atmospheric pressure, produced by the compact steam generator. Refrigeration is produced by the "absorption" principle utilizing heat as the motivating force.

Dehumidification is accomplished by passing the air stream over the refrigerated coil surface which is sufficiently cold to extract moisture simultaneously with dry bulb reduction. Surface dehumidification offers positive moisture extraction in balanced relationship with cooling capacity.

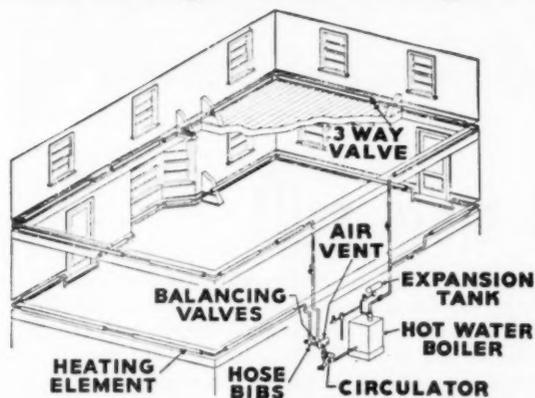
The entire refrigeration unit operates under a vacuum at all times. The absolute pressure within the generator and condenser is somewhat higher than in the evaporator and absorber.

Simplicity of operation and control are the fundamental features which this type of system embodies. There are no moving parts within the refrigeration unit.



Courtesy Servel Company

mainless perimeter loop . . .



(Warren Webster & Co.)

Mainless perimeter heating (series loop) system in conventional two-story house—piping is held to a minimum

Mainless perimeter heating with series loop system eliminates the basement main and is particularly suitable for concrete slab construction of basementless homes, but is equally useful in conventional small structures. Basement main is eliminated by connecting baseboard panels in series so that there is no need for piping imbedded in the concrete slab. When additional radiators or convectors are used in conjunction with this system, they are either connected in series with the baseboard panels or are connected to the "main" by two run outs. Manufacturer's instructions for this arrangement should be followed carefully.

APRIL 1953

Murray presents its new DELUXE LINE

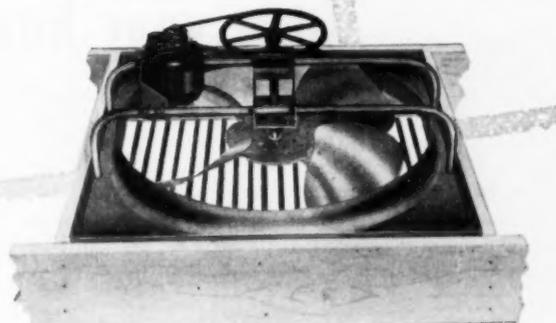
THE WINNER SETS THE PACE

A step ahead of the entire fan field in anticipating the demand of the booming fan market, Murray announces the addition of its new and exclusive DeLUXE models to the line of attic and industrial fans.

- Only Murray's DeLUXE line offers install-em-and-forget-em advantage—sealed, life-time-lubricated ball bearings in both fan and motor.
- Only Murray's DeLUXE line offers a full 10-year guarantee.

WRITE FOR NEW CATALOGUE

New catalogue on complete line of DELUXE and Standard industrial and attic fans and window fan line



Murray Ventilating
& Window Fans
COMPANY OF TEXAS, INC.
ATLANTA, GA.

H. C. BIGLIN COMPANY, INC., 177 HARRIS ST.
ATLANTA, GA.

BullDog *Pushmatic*® Electri-Centers

**SYMBOL
OF THE
MODERN**



Give your homes more sell!

Builders tell us that prospects frequently judge a house by a single modern, efficient feature. A BullDog Pushmatic Electri-Center—in which automatic push-buttons replace old-fashioned fuses—is an important feature that will help swing many a sale for you.

Your customers are quick to appreciate the safe, simple-to-operate electrical protection of BullDog Electri-Centers. They're impressed when you say, "No

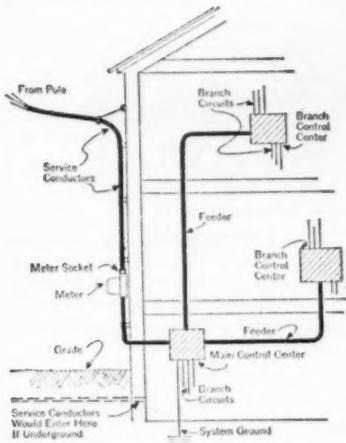
more fiddling with fuses!" A simple push of a button restores service after a short or overload. BullDog Electri-Centers can be installed anywhere; can be painted to match any color scheme.

You'll find that BullDog Electri-Centers will help sell your homes, too. Write today for free Bulletin PM-360. BullDog Electric Products Company, Dept. AB-43, Detroit 32, Michigan.

© BEPCO

BULLDOG
ELECTRIC PRODUCTS COMPANY

service . . .



Westinghouse Data

SCHEMATIC ELECTRICAL DISTRIBUTION system showing typical location of control centers near centers of load or power use. Such arrangement makes branch circuits shorter, gives reduced voltage drop, and more efficient operation of electrical equipment at lower expense. Easier installation makes lower initial cost possible

Floor Area Square Feet	Size of Service Conductor in Amperes	Capacity of Conductor in Amperes	Rating of Service Equipment in Amperes	
			Circuit Breaker	Fused Switch
Up to 1000	6	55	50	60
" " 1500	4	70	70	70
" " 3000	2	95	90	100
" " 4000	1	110	100	100

Above recommendations are based on three-wire service voltage with between 110/220 and 120/240 volts.

Circuit Purpose	Size of Conductor	Capacity of Circuit in Amperes	Rating of Protective Device		REMARKS
			Fuse	Circuit Brkr.	
Lighting Outlets	#14 Min.	15 Min.	15	15	1 circuit for ea. 500 sq. ft. of floor area
Convenience Outlets	#14 Min.	15 Min.	15	15	1 circuit for ea. 500 sq. ft. of floor area
Kitchen & Dining Room Outlets	#12 Min.	20 Min.	20	20	50 per cent of kitchen and dining room outlets to be connected to some circuit
Laundry Range	#12 Min.	20 Min.	20	20	115/230 v. circuit
Water Heater	#12 Min.	20 Min.	20	20	230 v. circuit
Clothes Dryer	#10 Min.	25 Min.	25	25	115/230 v. circuit
Heating Unit	#14 Min.	15 Min.	15	15	
Dishwasher & Waste Disposal	#14	15	15	15	
Home Freezer	#12	20	20	20	115 v. or 230 v.
Work Shop	#12	20	20	20	

Provide special circuits for appliances not listed in above table.

WIRING, LIGHTING, FIXTURES, AND ELECTRICALLY OPERATED DEVICES

Service Entrance

Distribution Centers

Branch Circuits

Outlets and Switches

Home Plan Wiring Layouts

Electrical Fixtures

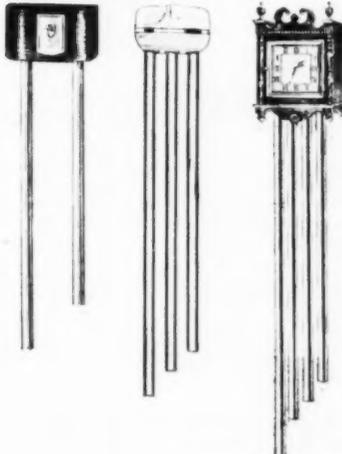
Electrical Devices



PLAN 1

RANCH TYPE HOUSE

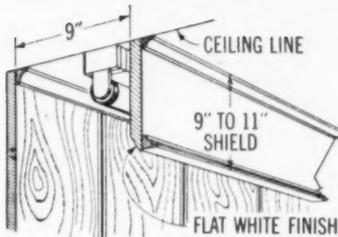
door chimes . . .



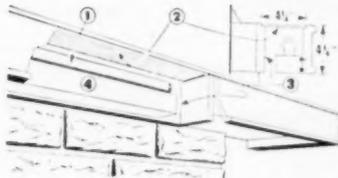
Courtesy Natone, Inc.

Modern design in two-door chimes shows a few of many possibilities in selection of chimes to fit home decoration theme. Brass finish tubes provide different tone combinations. 4-tube model at right serves three doors, has volume control and electric clock

concealed lighting . . .



Cornice shield shown above may be of various materials, in design in keeping with the architecture and decorative theme of the room. It should be from 6" to 10" deep, run the length of window or wall, with returns at least 6" in length from wall to inner surface of shield



1. 40-watt fluorescent lamp
2. fluted, frosted glass
3. cavity painted white
4. metal channel strip for wiring, ballasts, and radio interference filter

General Electric Co. Data

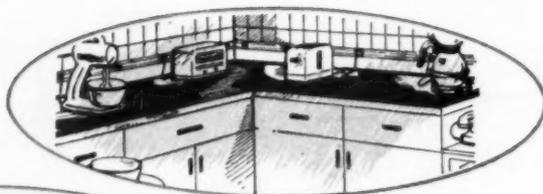
Valance lighting fixture for fireplace mantel provides friendly glow of light below mantel and diffused lighting through frosted glass shelf for pictures or other decorations on wall above mantel

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.

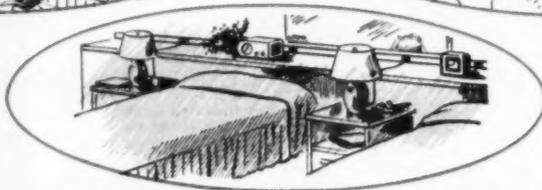
SALES SPARKER IDEAS with "PLUG-IN" STRIP



LIVING ROOM—Type CF-3 (switch controlled) "Plug-In" Strip provides a complete baseboard of outlets spaced 18" apart. Every outlet provides dual service—switch controlled at doorways or constant service. Allows absolute freedom for furniture rearrangements.



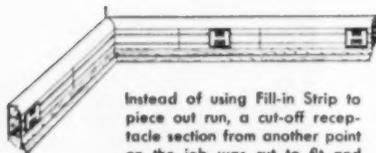
KITCHEN—Type CF 2 (constant service) "Plug-In" Strip provides a spread of outlets every 6" along the kitchen work centers. Every appliance has its very own plug-in!



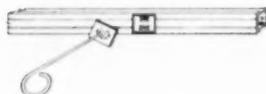
BED ROOM—An important room for electrical living. "Plug-In" Strip behind the bed provides plenty of outlets for lamps, radios, clocks and heating pads.



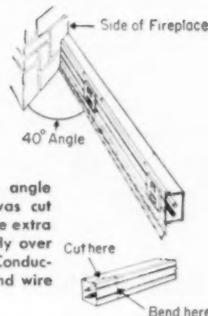
TIME-SAVER TIPS ON "PLUG-IN" STRIP INSTALLATION



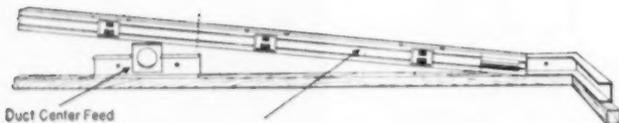
Instead of using Fill-in Strip to piece out run, a cut-off receptacle section from another point on the job was cut to fit and jumpered in.



Improved outlet "masker" keeps paint from plugs. (Made on the job by soldering copper rod handle on to a cut out piece of scrap tin.)



To meet this acute angle situation the base was cut back as shown and the extra capping bent squarely over for an end closure. Conductors were cut back and wire nuts applied.



Strip actually laid in position and pencil marked for a cut to fit situation. This eliminates possibility of measuring error.

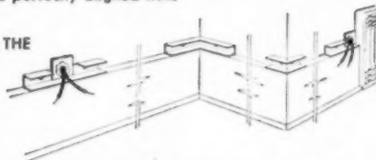


Wood footer is not nailed into position until center feed base is secured and "Plug-In" Strip with clips is slid into position. This eliminates difficult driving of clips into a tightly secured footer. Finally, footer is toe nailed, drawing the whole assembly into a tight and perfectly aligned trim.



Tell your electrical contractor you want "Plug-In" Strip. It costs no more than ordinary wiring, but pays off in more sales.

INSTALLING THE STRIP AND FITTINGS



Connect circuit feed, with suitable connector, to base of Center Feed Junction Box and secure base in position. Install Elbow Bases and any necessary bridging End Junction Boxes.

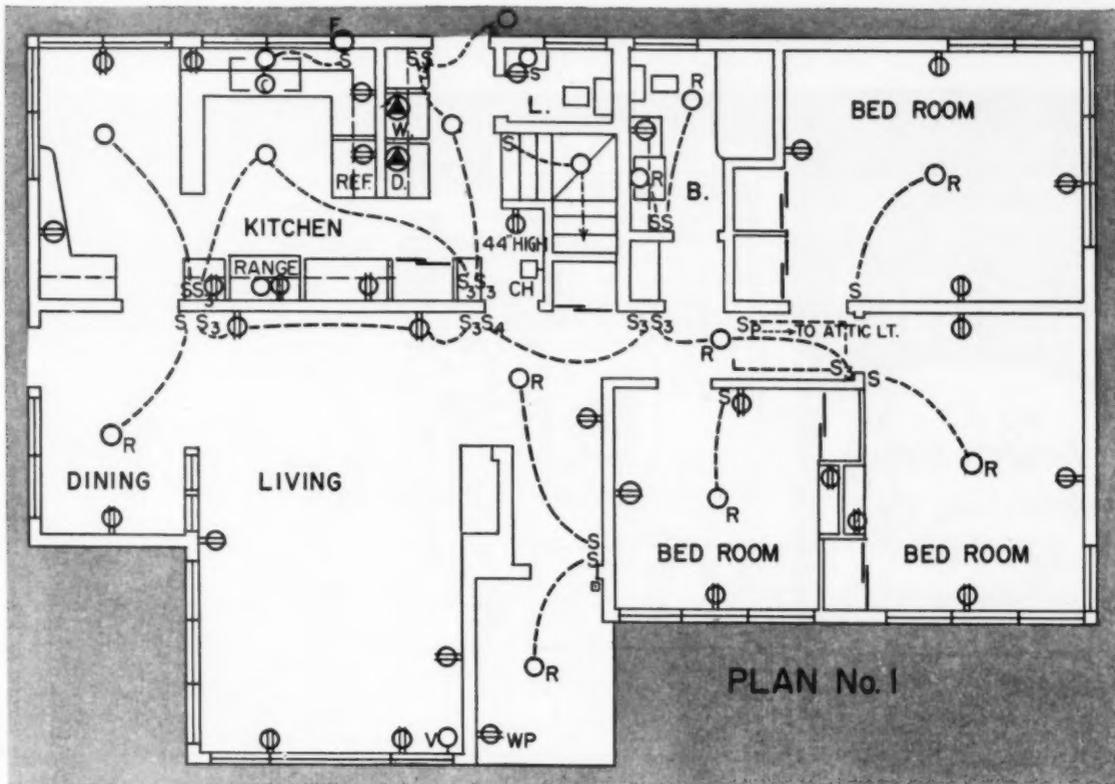
EVERYTHING IN WIRING POINTS TO

National Electric Products

PITTSBURGH, PA.

3 Plants • 7 Warehouses • 34 Sales Offices





PLAN 1
RANCH TYPE HOUSE

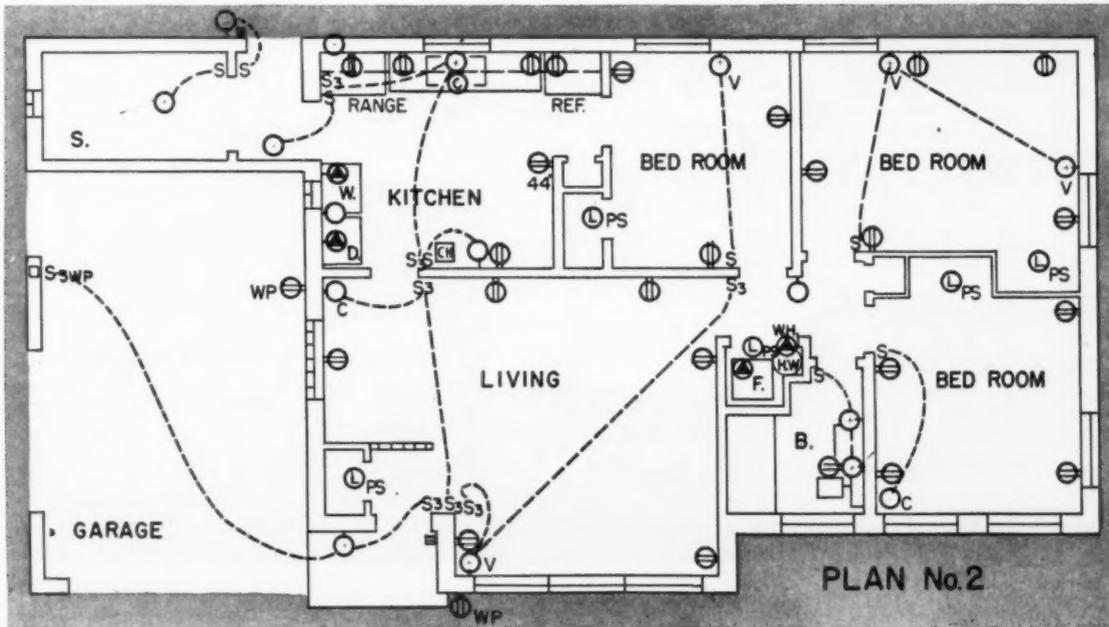
Recommended Service: 3—#2 wires with 100 amp. entrance equipment. Basement wiring includes 5 lighting outlets, 1 convenience outlet near furnace, and 1 furnace outlet on separate circuit. Branch circuits include: 3 general purpose #12 2-wire circuits for lights and conv. outlets in living rooms, bedrooms, etc.; 2 appliance lines for conv. outlets only in kitchen, dining room, #12 2-wire; 4 individual circuits #6 3-wire for range, #10 2-wire to dryer, #12 2-wire to washer and furnace; 3 spare terminations for expansion later.

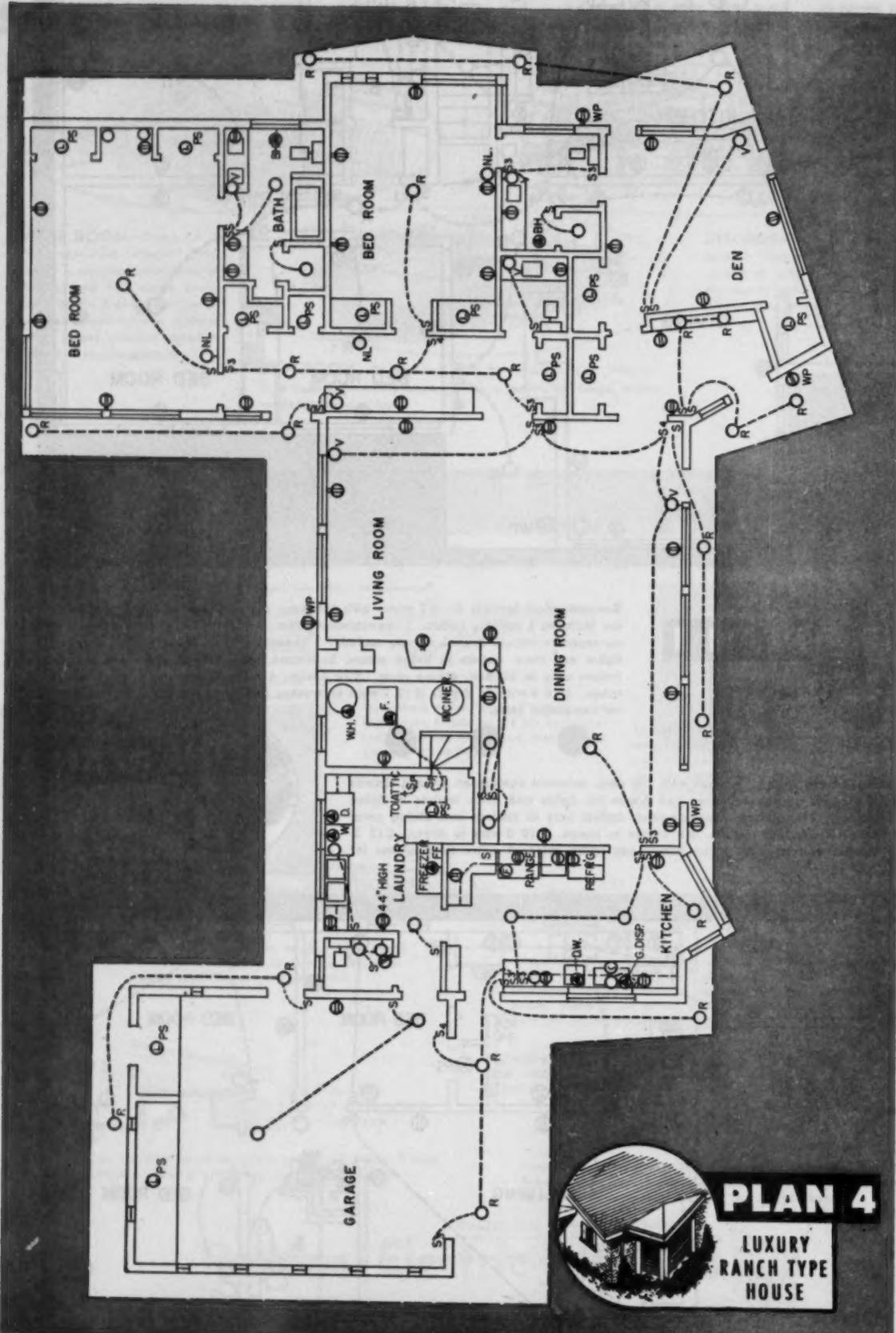


Recommended Service: 3—#2 wires with 100 amp. entrance equipment. Branch circuits include: 3 general purpose circuits #12 2-wire for lights and conv. outlets in living room, bedrooms; 2 appliance lines for conv. outlets only in kitchen and dining area, #12 2-wire; 5 individual circuits, #6 3-wire to range, #10 3-wire to dryer, #12 2-wire to washer and furnace, water heater per utility rules; 3 spare terminations for expansion of system.



PLAN 2
RANCH TYPE HOUSE





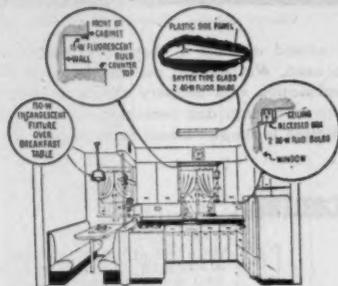
PLAN 4
LUXURY RANCH TYPE HOUSE

Recommended Service: 3—#0 wires 125 amp. fuses or circuit breakers. Branch Circuits: 6 general purpose, #12 2-wire, for lights and convenience outlets; 3 appliance branches, #12 2-wire and for conv. outlets in kitchen, dining rm. and laundry only; 10 individual circuits including #12 2-wire for washer, food freezer, furnace, dish-

washer and waste disposer, #12 3-wire to bath heaters, #10 3-wire to dryer, and #8 3-wire to range. Two spare terminals allow for expansion of system as family's electrical needs grow. Load is balanced throughout.

Recommended wiring and diagram by National Adequate Wiring Bureau

THE KITCHEN is one of the most important work areas to be lighted in a house. All work surfaces should have a shadow-free high value of illumination. The use of tubes in coves, troughs or behind concealed strips injects a newness in work-shops of the home that even a coat of paint could not have attained. The central lighting fixture will give general illumination, but additional light is necessary over sink, stove, or work surfaces. In the modern kitchen, as in no other part of the home, is found a variety of electrical appliances, wiring devices and electrical



outlets. Consequently, more fluorescent lighting has been used in kitchens than in any other room. Good utilization of the long, slender characteristics of fluorescent lighting is evident in this planned kitchen. According to recent surveys, better than seven per cent of the nation's kitchens are lighted today by fluorescent tubes, and over 65 per cent of the women questioned expressed a preference for this

type of lighting. Located over the sink is a recessed fluorescent reflector with glass cover and using two 30-watt fluorescent tubes.

BATHROOM: Recessed vertical fluorescent units are good in this bathroom because the mirror is mounted flush with the wall. Where cabinets cause the mirror to extend from the wall an inch or more, surface mounted units on each side or around the mirror are more appropriate. An RS sunlamp controlled by a wall



switch provides sunrays. Vapor proof ceiling fixtures are installed in tub and shower areas. They may be recessed or surface mounted units matching a larger center ceiling unit. Unless the bathroom is less than 60 square feet, a center ceiling fixture should be used.

PLUGMOLD

2000 with SNAPICOIL

... is the
EASIEST WAY
to give your buildings
MULTIPLE
CONVENIENCE
OUTLETS!



FACTORIES



OFFICES



STORES



SCHOOLS



HOMES

Easier, Faster, Cheaper to install in any building — new or old!

Plenty of electrical outlets is a feature that ranks right at the top of desirable points in any building — more electrical devices come into use every day and the need for outlets is greater!

PLUGMOLD 2000 provides a double outlet every 30 inches, in a continuous run—closer spacings are available wherever needed. Plugmold is readily installed in any building — factories, offices, stores, schools, hospitals, residences — it is surface mounted, which means no tearing out of floors or walls in existing buildings. Plugmold 2000 is also available in 3-foot & 6-foot factory-wired sections.

Plugmold makes any building a better building . . . get the full Plugmold story and the new free Plugmold 2000 book . . . write today!

KOHLER ELECTRIC PLANTS

Independent Source of Electricity

Save time and cost

Move jobs faster with electricity wherever the work is done—save expense and bother of temporary power line hook-ups. Portable, low-cost model operates saws, drills, grinders, pipe threaders and cutters, other tools. Develops 1500 watts AC. Engineered throughout by Kohler. Rubber-tired two-wheel cart available. Other sizes 500 watts to 30 KW. Write for folder 14-K.



Model 1.5M25, 1500 watts, 115 volt AC. Manual control. Weight 130 lbs. Also 115 volt DC weighing 101 lbs.

Kohler Co., Kohler, Wisconsin. Established 1873

KOHLER OF KOHLER

PLUMBING FIXTURES • HEATING EQUIPMENT • ELECTRIC PLANTS
AIR-COOLED ENGINES • PRECISION CONTROLS

WIREMOLD

Makers of

PLUGMOLD—multi-outlet systems

WIREMOLD—electrical raceways

PANCAKE—overfloor raceways

THE WIREMOLD CO.
Hartford 10, Connecticut

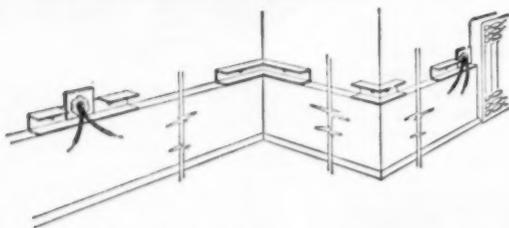
wall heater . . .



Market Electric Products Data

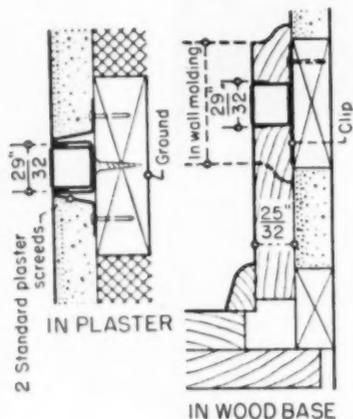
Auxiliary electric heater for wall installation produces both infra-red radiant heat and fan-forced hot air. Box is installed like any outlet box, with front edges flush with plaster. Box is mounted on cross pieces nailed to studs. No special framing is required. Locate 10 to 12 inches above the floor.

INSTALLING THE STRIP AND FITTINGS



Connect circuit feed, with suitable connector, to base of Center Feed Junction Box and secure base in position. Install Elbow Bases and any necessary bridging End Junction Boxes.

wiring with plug-in strip



Place "Plug-in" Strip against the wall in proper position on the baseboard. A downward thrust on the Strip slides it firmly into place. The screw holes in each end of the base may also be used for mounting.

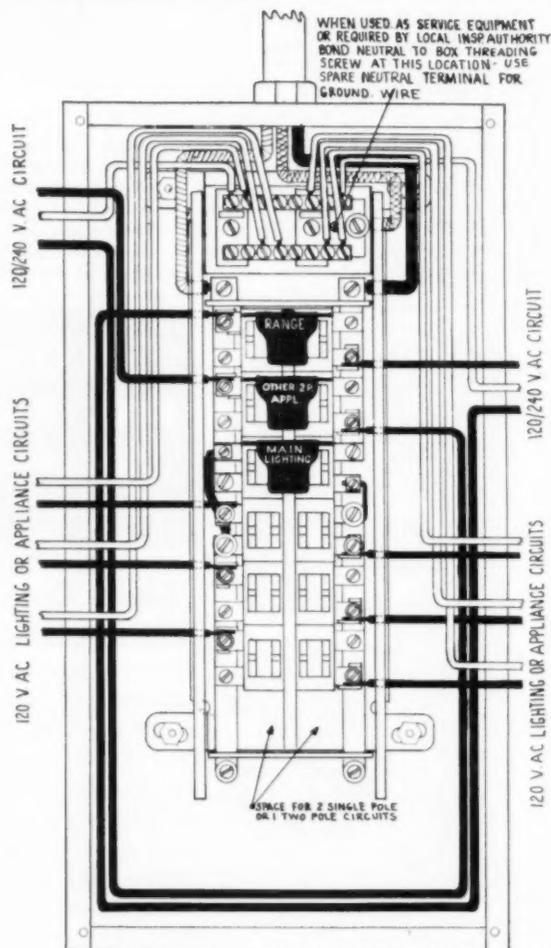
National Electric Products Corp. Data



Valance Lighting, Courtesy Moe Light, Inc.

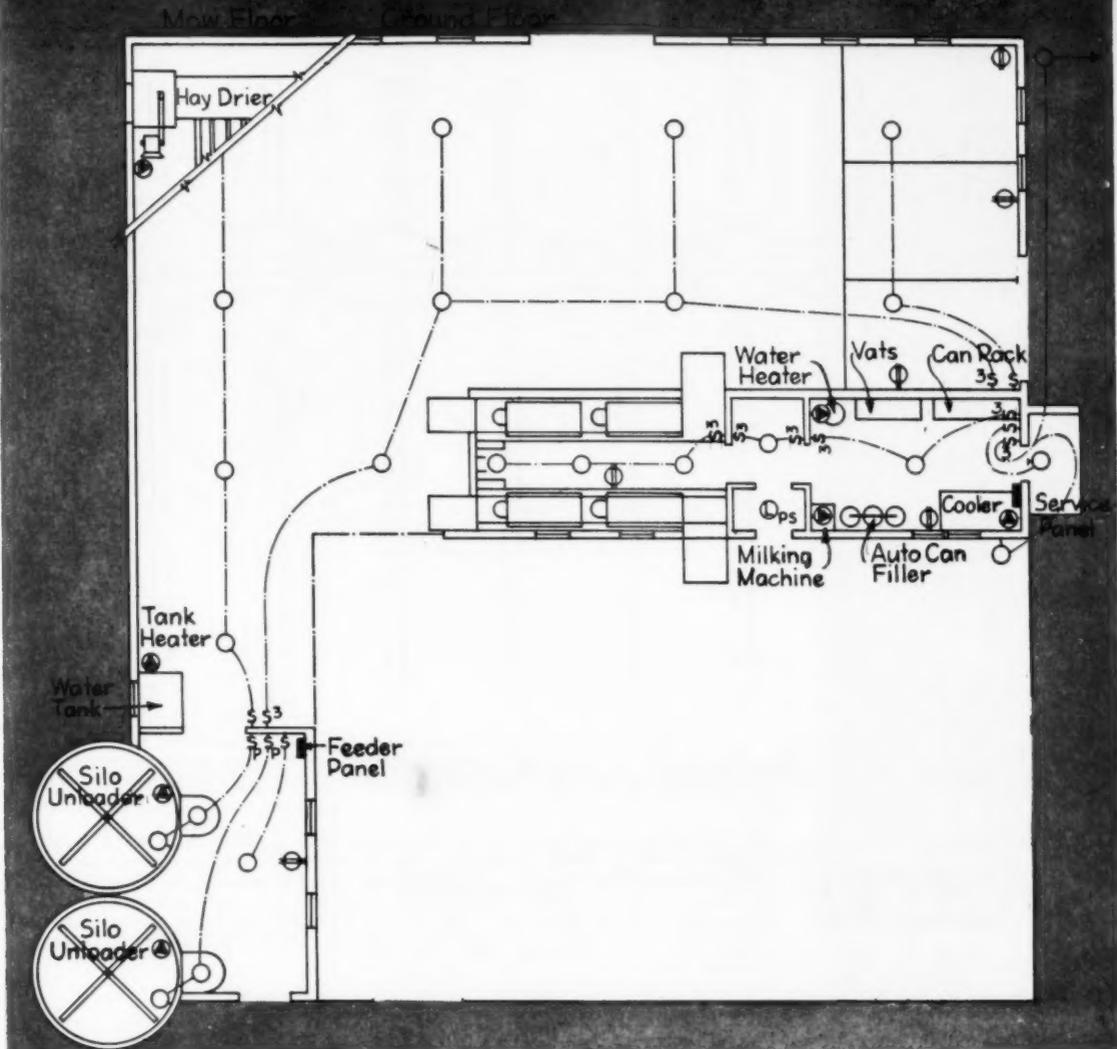
Valance installations above windows should extend at least 4" beyond windows at each end, farther if heavy draperies are also used. Wall-to-wall use as shown is becoming increasingly popular, especially in combination with drapery effects. Standard decorative valance panels are available in both traditional and contemporary designs, with matching traverse and curtain rods. Installation is simple: mount on wall and plug into nearest electric outlet.

distribution center . . .



Bulldog Electric Products Co. Data

Twelve-circuit distribution center shown above is recommended for use in larger homes. Panels are split bus type with a main to control the lighting circuits. Above the main, 120/240 V. AC units are generally used for range, dryer, and similar heavy appliance applications. Panel has space for additional circuits as electric needs grow. Unused circuits may be covered with filler plates until required.



Recommended wiring and diagram by National Adequate Wiring Bureau

Recommended: Service, 3—#0 wires—1—100 amp. & 1—60 amp. switches; or, 1—100 amp. & 1—40 amp. circuit breakers. Feeder, 3—#8 wires. Branch circuits from service panel are: 3 general purpose circuits to lights and convenience outlets, 115 volt, #12 wire; 3 individual circuits #12 wire 230 volt to milking machine, water heater and can cooler; 1 individual circuit #8 wire 230 volt to hay dryer. Circuits from feeder panel include 1 general purpose to lights and convenience outlets; 3 individual circuits to stock tank heater and silo unloaders.



Planned Lighting

Lighting is an important consideration while the design of the home is in the blueprint stage. The placement of lighting sources where particular functions are being performed may satisfy a lighting problem in quantity but not quality. Provisions should be made for flexible schemes to prevent excessive contrasts of brightness for good visibility and eye comfort. Architects and designers realize the value of lighting as a medium of design and are using it for decorative purposes as well as utility.

One of the strongest selling features of a new home is often its

kitchen. Modern equipment and well-planned designs frequently influence the decisions of buyers who are looking for time and effort-saving advantages in their new homes.

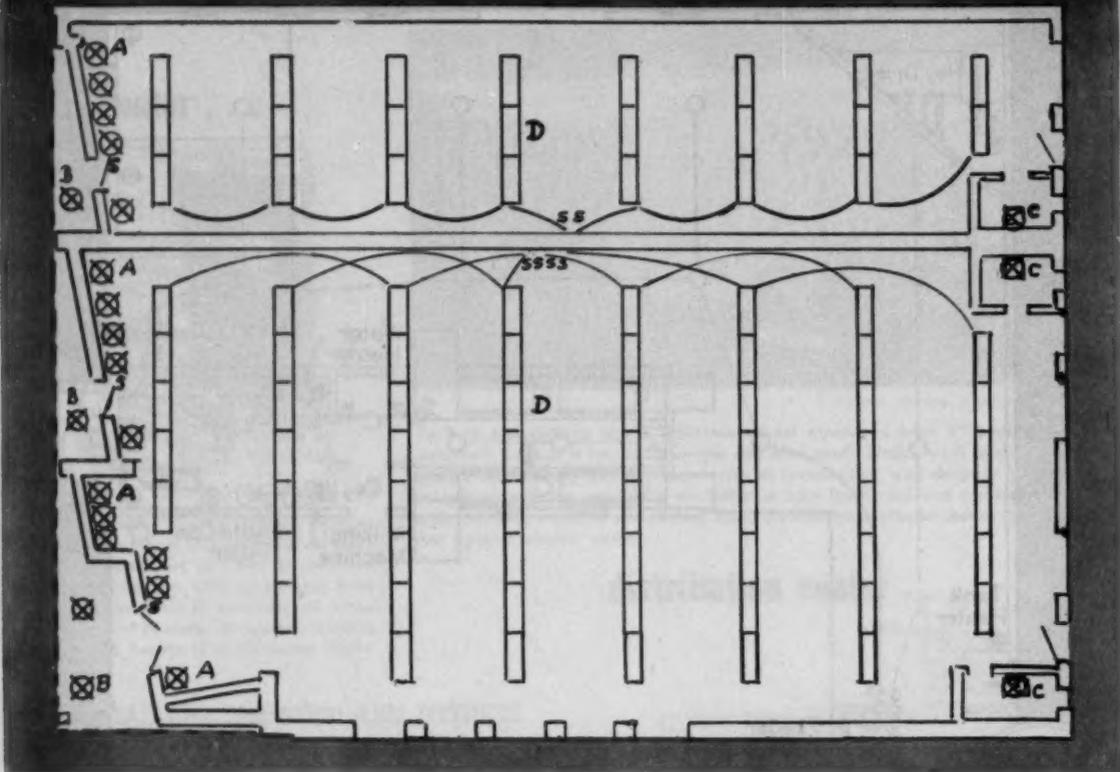
Growing public interest in still another modern, energy-saving kitchen aid, planned lighting, when lighting equipment is chosen and installed according to new tested recipes, offers the builder new opportunities to increase saleability with a minimum of effort and expense.

Present widespread public interest in planned lighting has aroused many builders to include these advantages of modern lighting techniques in demonstration homes.

In surveys based on visitors' preference, ballots solicited at builders' demonstration showings in both Dayton and Cleveland, Ohio. Kitchens with planned lighting were outranked only by lighted valances in living-dining room areas.

As one builder observed, once people have seen and experienced a kitchen with planned lighting, they realize that this is one of the advantages they can't afford to overlook in choosing a home.

To create a bright, efficient, streamlined well light-planned kitchen, lighting must be functionally arranged to assure desirable amounts of light for kitchen tasks.



Recessed lighting plan by the Kirlin Company

Fluorescent indirect lighting layout for modern store building provides for 40 foot-candles average intensity in sales area and 130 foot-candles in show windows. Marquee and windows are planned to have incandescent lighting, recessed flush, controlled by a time clock switch. Units for marquee and main store areas are of wide distribution type; show-window fixtures give concentrated distribution. All boxes installed prior to plastering or finishing wall surface. On plan: "A"—300W; "B"—300W; "C"—100W; "D"—2, 40W.



LAUNDRIES can be light, pleasant work areas. Simple lighting units located over working areas for good visibility will appeal to most women. The lighting in this laundry will make tasks easier, increase efficiency and reduce nervous fatigue usually associated with washday. It will also bring out scorch marks so often unseen until the article is used under day-

light. Ironing scorches, burns and spots are readily detected under light from the daylight fluorescent lamp. Good lighting, therefore, becomes a gain and an economy when used in laundries. Generous amounts of light are provided by using an industrial type two-lamp fluo-

rescent reflector (two 40-watt daylight tubes) in the ceiling. Additional fluorescent tubes are located under the cabinets for illuminating the tub and washing machine area. Well-planned laundries, such as this one, are important features in the new houses of today.

alarm system hook-ups . . .



INDUSTRIAL TYPE UNIT
2 40-W FLUORESCENT
TUBES—GLASS BOTTOM

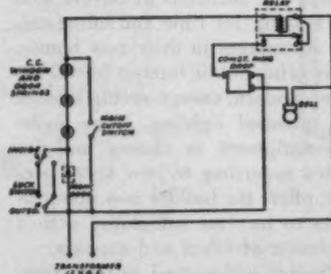


UNDER CABINET
LIGHTING



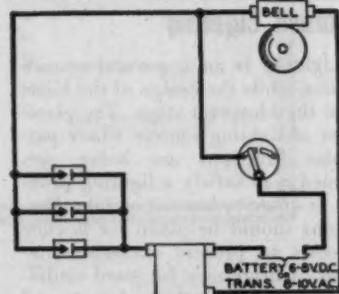
A. C. CLOSED CONTACT BURGLAR ALARM SYSTEM

USING LOCK SWITCH ON FRONT
DOOR AND MAIN SWITCH TO CUT
OUT ALL CLOSED CONTACTS . . .



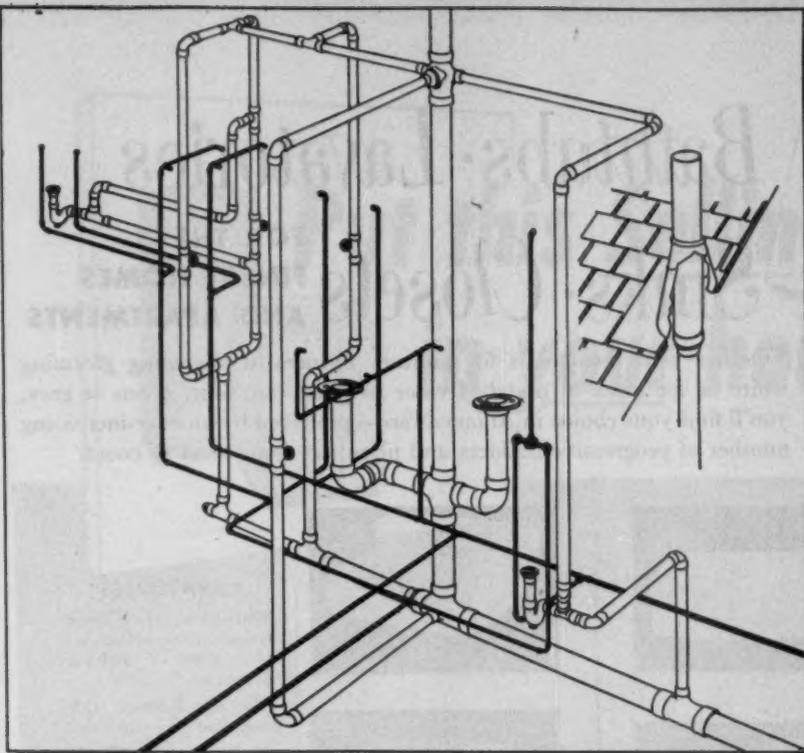
Two burglar alarm wiring layouts suggested for use with tin foil ribbon for protection of windows and doors. Normally, the foil ribbon is placed around glass as

OPEN CIRCUIT SYSTEM



Edwards Company Data

a border and soldered at each end to wires to form part of circuit. With closed circuit, breakage of glass breaks ribbon and opens circuit. Best secured with "liquid glass" and coated with shellac.



American Brass Co. Data

Three-inch copper tube with cast fittings will build into a 4" stud partition, eliminating need for normal 8" plumbing wall. Many plumbing codes permit 3" house sewer and 3" soil and vent stack, with stack increased to 4" before passing through roof as shown in detail if danger of frost build-up is present



THE requirements for adequate plumbing in a house will vary. A two or three person family can get along very well with one bathroom. Larger families, or people who do much entertaining, will find that two baths, or a bath and powder room combination are not merely desirable but necessary.

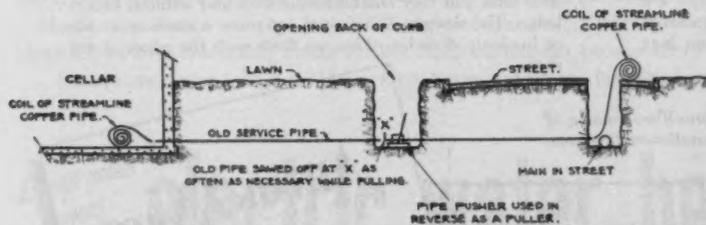
Minimum needs require a bathroom with tub and shower facilities, a kitchen sink, laundry facilities, and

at least one outside hose connection. Only in the lowest-cost homes should the kitchen sink and laundry facilities be combined, or should the tub and shower combination be replaced by a shower only.

In one-bathroom houses, a good arrangement is to place the tub in one compartment and the toilet and lavatory in an adjoining one, thus permitting double use of the room.

(Continued on page 302)

REPLACING OR INSTALLING NEW WATER SERVICES



Courtesy Mueller Brass Company

Method shown suggests excavation at the main with old service disconnected. Second excavation back of curb makes place for pipe jack to operate. New pipe service is attached to old line with adapter, and reverse action of jack pulls out old line and installs new in one operation. Old pipe is cut off in short lengths as it is drawn through

PLUMBING, FIXTURES and ACCESSORIES

Plumbing and the House

Adequate Plumbing Requirements
Layout for Convenience
Installation Economies
Future Changes or Additions

Good Installation Practices

Workmanship
Plumbing Codes
Testing
Maintenance

Water Supplies

Materials, Underground and Interior
Arrangement for Economy and Performance

Drainage

Materials, Cast Iron, Clay Tile, etc.
Arrangement—Importance of Drainage

Bathroom Fixtures

Tubs
Lavatories
Closets
Showers
Cabinets and Accessories
Good Design

Kitchen and Utility

Room Fixtures

Sinks
Water Heaters
Water Softeners
Laundry Trays

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.



Bathtubs • Lavatories

Sinks • Closets

FOR THE
FINEST HOMES
AND APARTMENTS

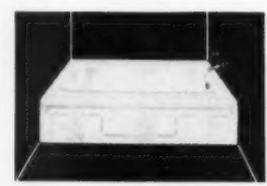
Whether your demand is for sanitary fixtures in glistening gleaming white or for units of matched color in pink, tan, blue, green or grey, you'll find your choice in AllianceWare—preferred by an ever-increasing number of progressive builders and plumbers from coast to coast.

BATHTUBS

5-foot recess tubs of porcelain-on-steel each with an integral wall guard flange on three sides that prevents water leaks between the tub and the wall.

Also a 42" "Junior" recess tub that has great advantages as a shower receptor.

All AllianceWare bathtubs are available in white and five colors.



LAVATORIES

Wall-hung shelf back lavatory of porcelain-on-steel with or without overflow.

Flat rim lavatory with deep and generous bowl for tile or linoleum installations.

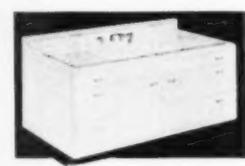
All AllianceWare lavatories are available in white and five colors.



CLOSETS

Close-coupled combinations—one a reverse trap, the other a wash down—the types most popular in today's construction. Each style assures positive, quick flushing.

Available in white and five colors.



DELUXE SINKS

Porcelain-on-steel formed from 14 gauge. These sinks have double bowls or single bowls. Sliding drain boards are optional on some models. May be mounted on standard sink cabinets. Several models may be installed on legs without cabinet.



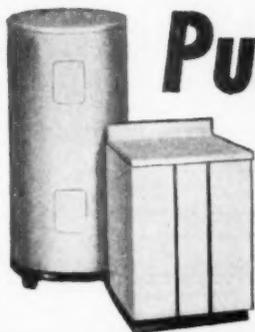
FLAT-RIM SINKS

Single bowl or double bowl, with and without faucet ledge. Also sink and tray combinations with and without faucet ledge. The design of these sinks permits a continuous tile or linoleum drainboard to run flush with the edges of the rims.

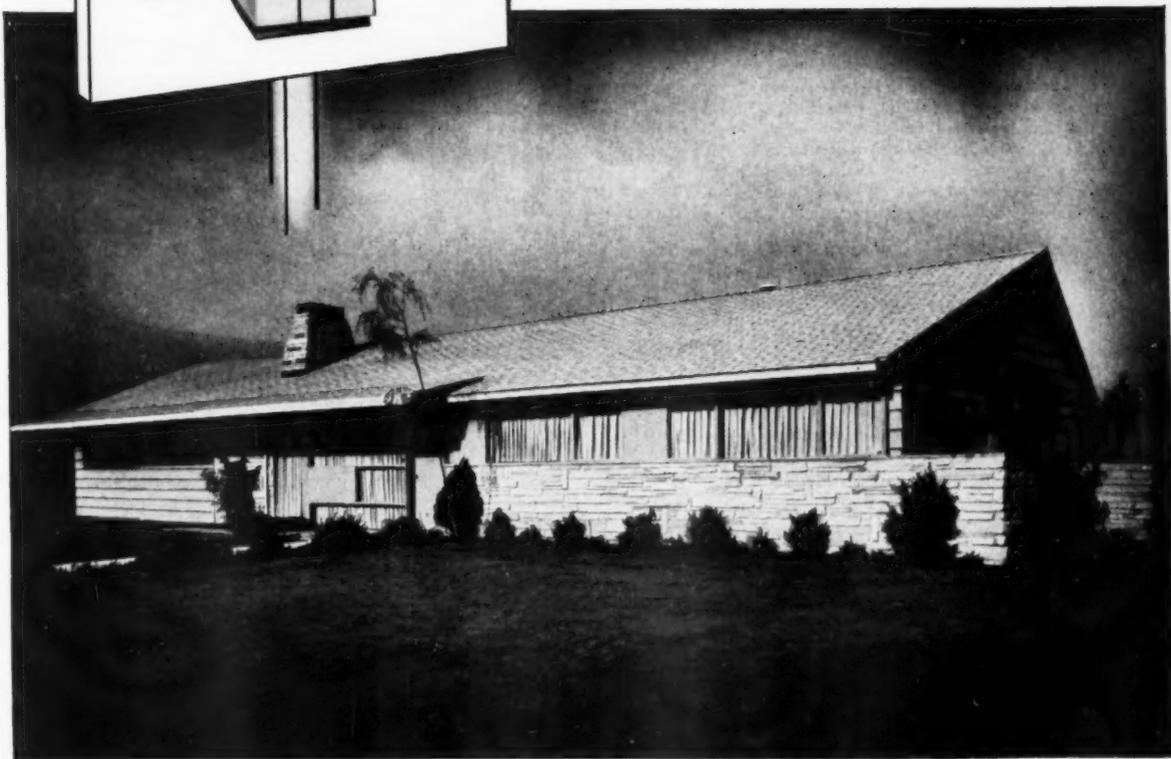
Write for the complete AllianceWare catalog of detailed specifications and installation diagrams.

ALLIANCEWARE, INC. • Alliance, Ohio
Bathtubs • Lavatories • Closets • Sinks





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Builders are good businessmen. They are very sensitive to what the public wants. So when you find them including one particular type of equipment all over the country—in large homes and small—you can be pretty sure it's what people want. The builder of this house, for example—Mr. Al La Pierre of Seattle, Wash.—says: "Completeness is the key to a full life in Season-Master homes, and to make them complete I include *Electric Water Heaters*."

Here's why: *Automatic* hot water. Cleanness of operation. Economy of operation, due to short hot water lines and fully insulated tank. Easy installation, because there's no flue or vent . . . the modern water heater for the modern house—of course, it's *Electric!*

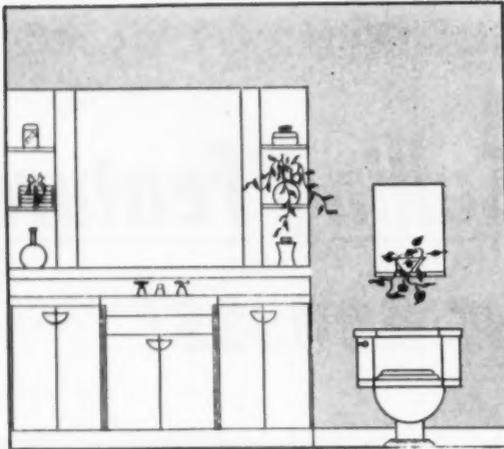
↖ This attractive Season-Master model home (in the \$12,000 price class) is in Mountlake Terrace, Seattle, Washington. Its kitchen is designed for all-electric equipment. The builder, Mr. La Pierre, says, "*Electric Water Heaters* are an important feature of a well-planned house."

Equip your homes with **electric water heaters**

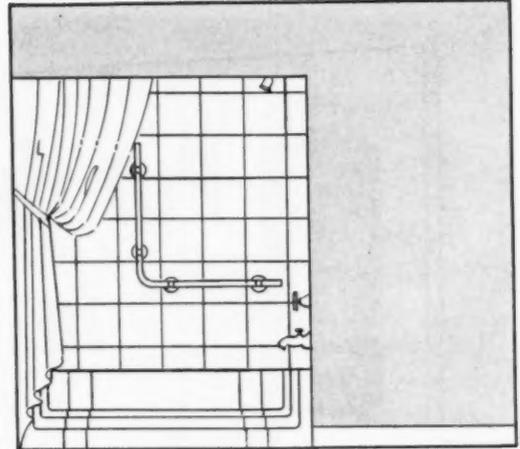
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Layout by American-Standard



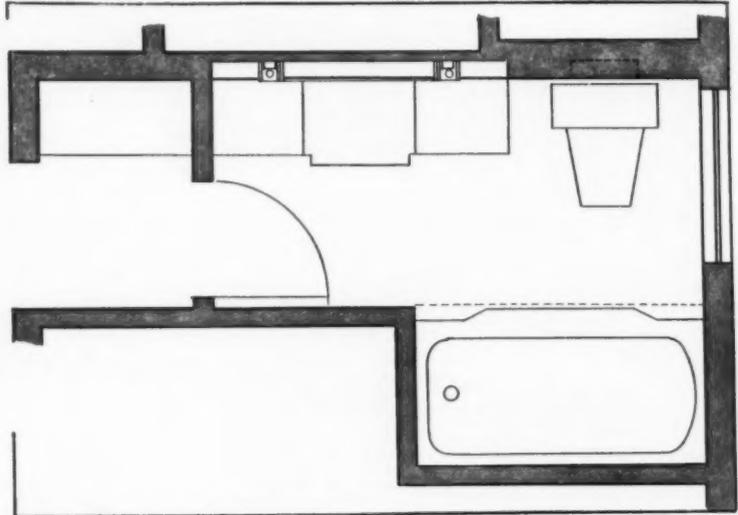
Bathroom layout suggests use of lavatory with dressing table cabinet, one-piece water closet of free-standing siphon vortex design, and cast iron bath tub with rim seat, low sides, and flat margin for bathing convenience. Note heavy-duty safety grab-rail built into wall around tub

(Continued from page 299)

Installation Economies

For most economical installation, rooms having plumbing should be placed close together to avoid long runs of pipe. In a one-story house, the bathroom can be placed next to the kitchen or utility room. In a two-story house, the bath can be placed over the powder room, and the kitchen over the laundry and basement toilet.

The popular ranch-type of house commonly has the kitchen and utility room at one end or at the center of the house, and the bath at the other end. In such cases, kitchen and utility room should have a common wall, as



should the bath and powder room.

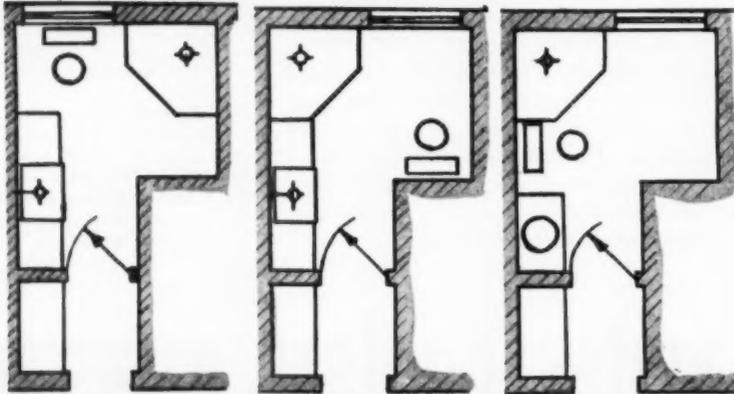
Water Supplies

The water-supply system should deliver water to the fixtures at the rate it is needed. Water pressure, pipe

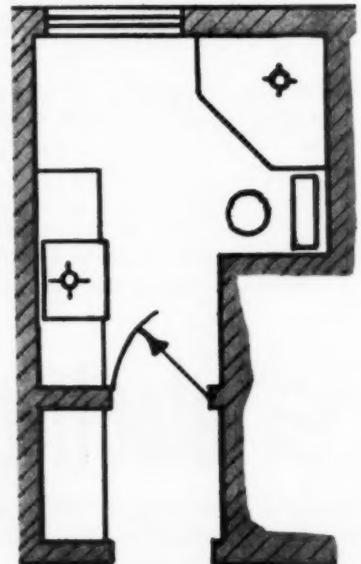
size, the number of fixtures in use at any one time—all are factors in determining the water needed.

Water is brought into the house from the city main or well, in under-
(Continued on page 307)

shower stall installations . . .

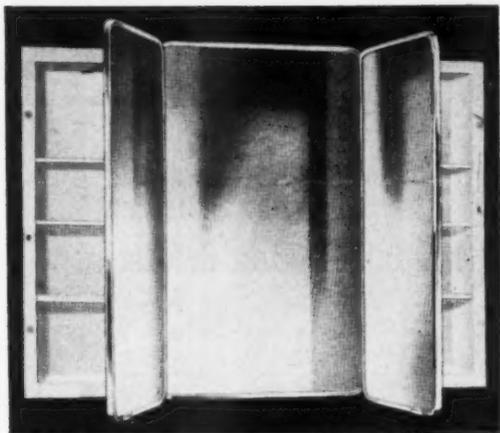


Suggested use of corner shower and elimination of bathtub gives more spacious feel to small bathroom. Such showers require no special framing-in for support. Drain is connected to 2" pipe and P trap, and valves to hot and cold water lines. Galvanized bonderized steel walls may be finished in various colors. Receptor is semi-flat terrazzo with black and white marble chips and white cement. Mixing valves and glass shower doors may be added to increase convenience



Bathroom layouts by FIAT

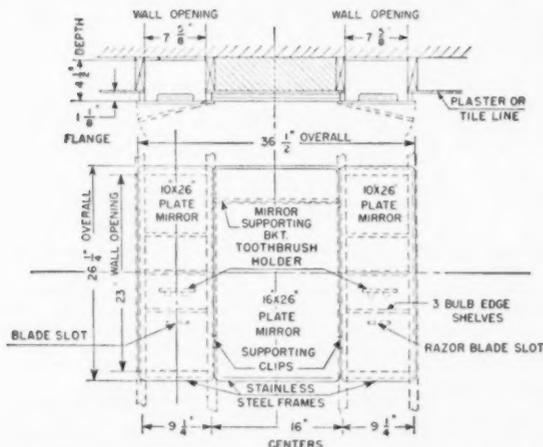
AMERICAN BUILDER



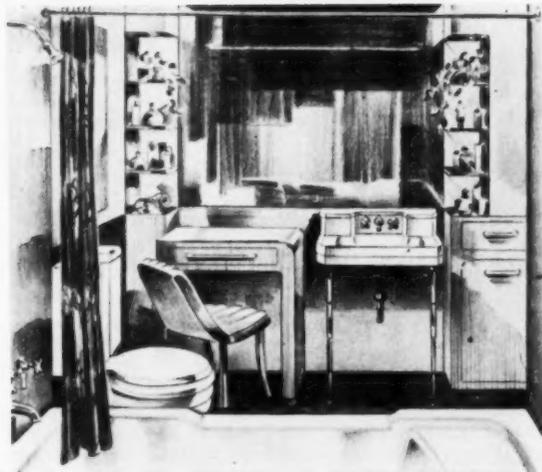
Courtesy Ideal Cabinet Corporation

wall cabinet installation . . .

Side cabinets in this bathroom wall cabinet open to provide "vanity" mirror arrangement. Plate glass mirrors hang on full length hinges. Each side cabinet has three adjustable glass shelves. Cabinet is made to fit conventional studs 16" o.c.



a space-saving arrangement . . .



Courtesy Eljer Company

Economical use of space is combined in this bathroom arrangement with full utilization of modern glass and ceramic materials

APRIL 1953

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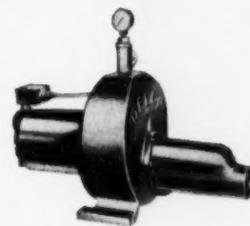
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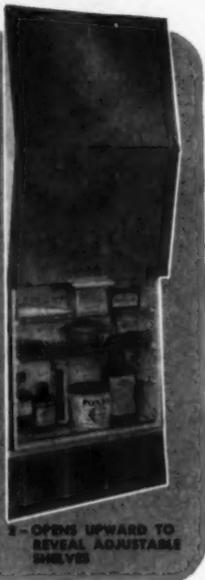
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1 - CLOSED POSITION

The New ...
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(Designed by Ornas & LaBarre)



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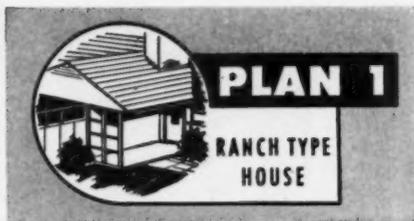
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Home buyers go big for this new-idea medicine cabinet . . . it opens upward, has a **locking poison shelf**. Write for picture folder to see how mother and daughter find new conveniences as "bathroom vanity" and full-length view . . . for the men "close-up" enlarged reflection for shaving . . . better bathroom safety 2-ways for children. Completely counterbalanced by spring tape for easy operation. New, unique, extra useful . . . and the **greatest step forward in bathroom medicine cabinets in years!** Priced for all homes. Folder gives installation data. Get it today!

TU-VUE MEDICINE CABINET CO.

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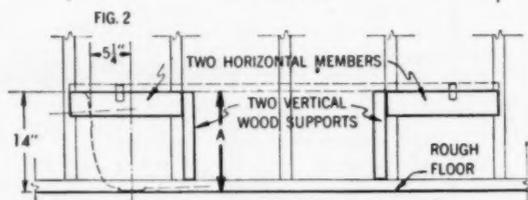
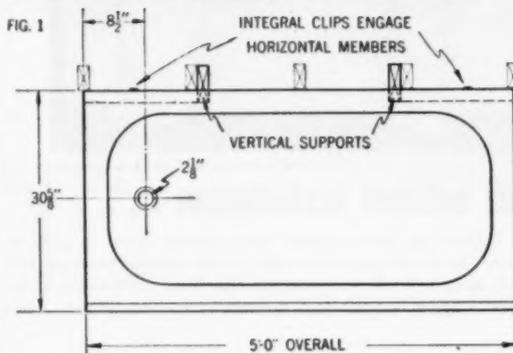
28697 MOUND ROAD • CENTERLINE, MICHIGAN



PLAN 1

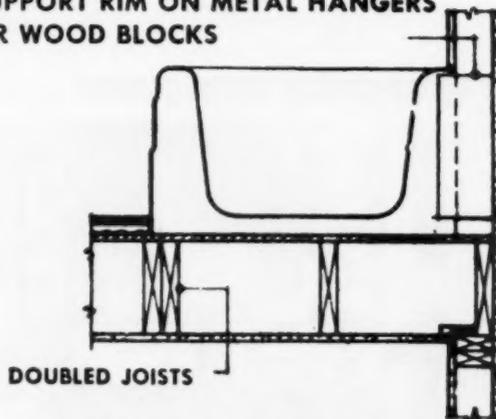
RANCH TYPE
HOUSE

bath tub installation details . . .



One source of trouble with recessed or built-in tubs is caused by shrinkage in building materials and settling of bathroom floor. This separates edges of tub from wall, permitting water seepage. Where wood frame construction is used, it is advisable to install tub hangers in the wall to support the tub on the wall structure itself and prevent this separation.

SUPPORT RIM ON METAL HANGERS OR WOOD BLOCKS



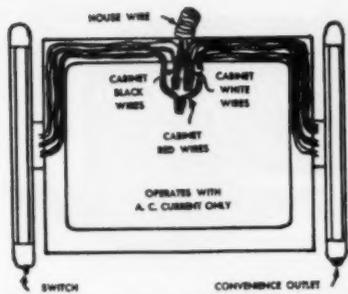
DOUBLED JOISTS

BATH TUB SUPPORT

Courtesy Alliance Ware, Inc.

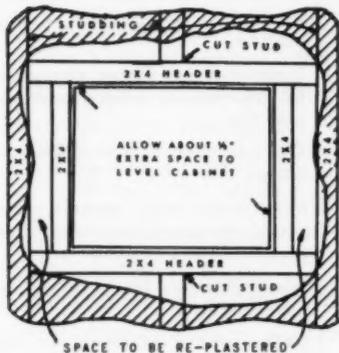
In installing bath tub, rough in according to manufacturer's specifications, locating vertical supports for back of tub as shown. FHA recommends vertical supports because of minimum shrinkage with the grain of the wood. Spike horizontal members to studs and drop tub in place after making sure it will fit. Be sure top of tub is level before completing plumbing connections. Cover tub to prevent damage until plastering and painting have been completed.

**how to install
bathroom wall cabinets . . .**

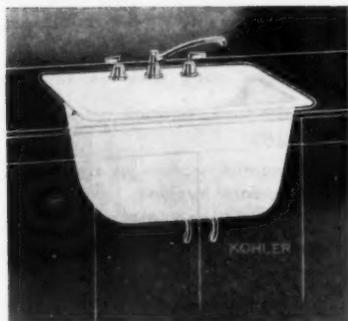


F. H. Lawson Co. Data

This recessed bathroom cabinet is made to fit standard 2"x4" studding, or deeper. Usual height of cabinet from floor is 63" from floor to center of mirror. Rough opening should be approximately 3/4" larger in width and height to allow for adjustments. Outer flange will lap wall opening when installation is complete.



House wiring should end at top center of opening. Knockouts are provided in top of junction box to facilitate connecting to house wires. Color coding corresponds to normal house wiring codes and should be followed.



Courtesy Kohler of Kohler

Enameled iron laundry tray has round corners to protect fabrics, swing-spout mixer faucet, provides attractive as well as efficient laundry facility. Designed for building into counters or cabinets, tray measures 24"x21" length and width, with 13" deep basin. Accessory metal frame makes counter installation easy.

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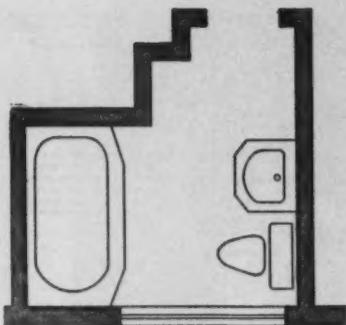
INTERNATIONAL SHOWROOM
101 Park Avenue, New York City

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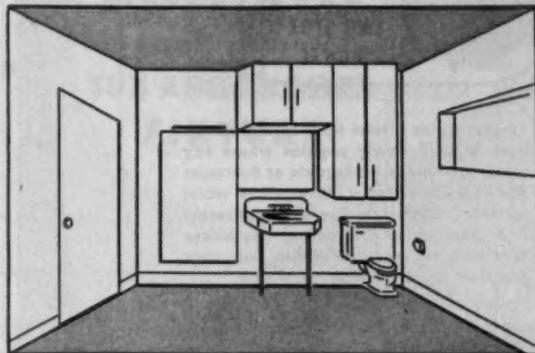
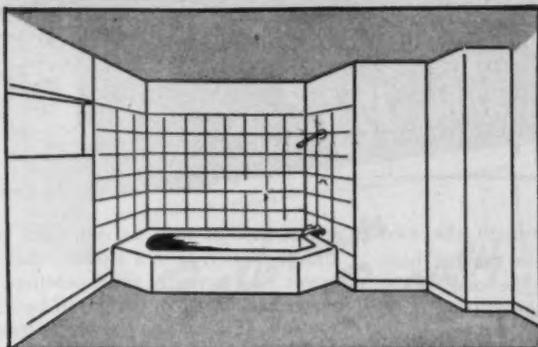
- Acid-resistant quality at no extra cost.
- Patented Safety Bottom bathtub, reducing accident hazard.
- Unnecessary dead weight eliminated from tub.
- Tiling-in flange—leak-proof seal, tub to wall.
- Under-tub framework—firmly positions tub, independent of wall support.
- Precision brass fittings engineered for minimum installation cost and long life.
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- Lavatories with tarnish-proof chromium plated legs and towel bars.
- Deeper lavatory bowls for greater water capacity.
- Uniform tub dimensions, insuring exact fit.
- Vertical front panel edges on tub, eliminating need for cutting and fitting wall tile.
- Water closets with anti-syphon ball cock of proved quality.
- Twin concealed front overflows and anti-splash rim on vitreous china lavatories.
- Integral soap dish on lavatory.
- Quiet-flush, positive action water closets.
- Elongated syphon-jet closet bowl for greater hygiene.
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- Attractive contours, smart styling, functional design for durable service.

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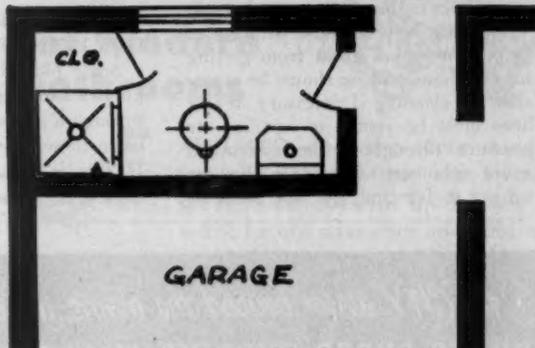
Additional storage facilities are provided in this bathroom with cabinet arrangement over lavatory and closet tank occupying no floor area. Enameled iron recess bath has built-in shower fittings, mixer, diverter spout, and shower head. Closet has rim flush, reverse trap construction. Glass, ceramic tile, or other utility surface material may be installed on walls around shower and tub

Layout by Kohler of Kohler



an extra bath in the garage . . .

Suggested here is utilization of the far end of the garage for a second bath, providing a shower cabinet, toilet, lavatory, and small storage closet. This location makes for convenient clean up of children as they come in from play, and of adults who come in from the garden or from other chores and need to clean up before tracking up the house. Shower walls are bonderized galvanized steel; receptor has slip preventing floor surface. It may be installed on a special base frame to contain trap and waste pipe, or it may set flush with finish floor



GARAGE

Courtesy Henry Weis Manufacturing Company, Inc.

(Continued from page 302)

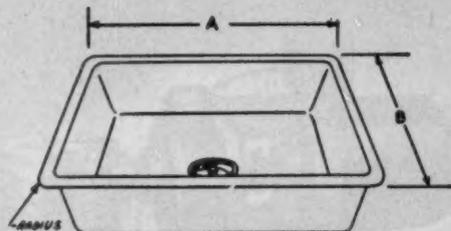
ground pipes, to prevent freezing and to protect the pipes. A 1-inch galvanized or lead pipe, or 3/4-inch to 1-inch copper tubing will usually provide adequate water under normal city pressure of 30-50 lbs. In cities, a "roundway" will be provided at the property line, at which the water may be shut off by a key passing down through a metal or fibre tube extending up to ground level. A shut-off valve must also be provided inside the foundation wall or in the utility room. The meter, if used, is installed at this point.

Access panels should be provided at the supply end of bathtubs, and other valves should be located in relatively accessible locations in case repairs are necessary. Air chambers should be provided for all fixtures to prevent "water hammer" when valves are suddenly closed. All piping should be at a slight pitch to permit draining down of the system to a low point if ever necessary.

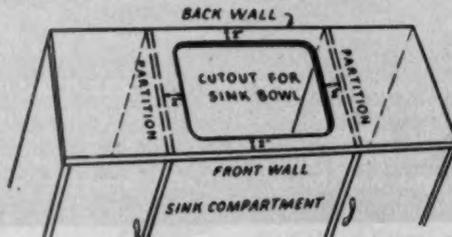
Drainage System

Water is forced through the supply pipes by pressure, but drainage of wastes is by gravity. Therefore, all

HOW TO MEASURE SINK BOWL AND CUTOUT



To determine the correct size frame for a sink bowl, three measurements are necessary. The length and width of the bowl, A and B in illustration above. These are OUTSIDE measurements; also, the OUTSIDE corner radius.



When locating cutout for the sink bowl, be very sure that the under-sink compartment is at least 2" wider and longer than the sink bowl to be used. This will allow the necessary 1" clearance on either side, front and back, for fastening the lugs. Use the vertical leg of the frame as a template for marking cut-out on cabinet top; place face up. This will give you proper cutout markings.

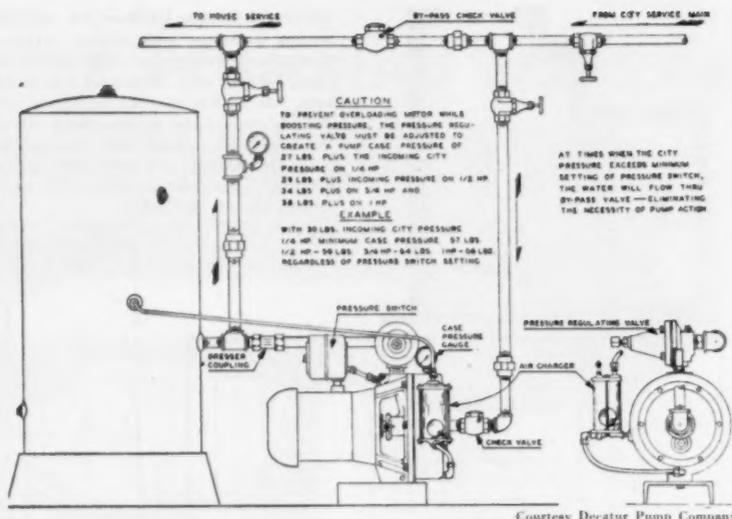
Courtesy Walter E. Selck & Co.

booster pump installation . . .



Booster water system such as that shown here is increasingly popular where city water pressure is inadequate or fluctuates during the day. Use of dishwashers, water softeners, automatic laundry equipment and other water consuming appliances may require pressure higher than that provided by city mains

drainage lines must have a pitch to insure proper flow so that wastes are carried out to the street or septic tank. Traps must be provided at all fixtures to prevent sewer gases from getting into the house. These should be accessible for cleaning if necessary. Waste lines must be vented to equalize air pressure throughout the system to avoid siphonage of traps. In climates subject to freezing, the vent stack or



Courtesy Decatur Pump Company

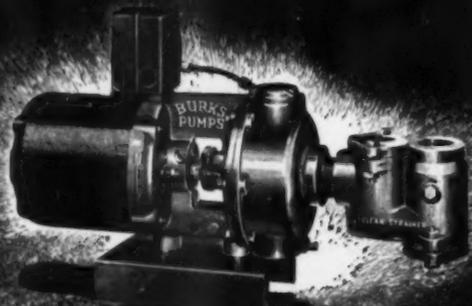
stacks extending through the roof must be increased to prevent hoar frost from stopping the vent, which could permit siphonage of traps.

Some plumbing codes require that kitchen and laundry wastes be passed through a grease interceptor or catch basin to separate out grease and oil. If this is required, separate waste lines must be provided.

Downspouts may be connected to the city sewer, or to a separate storm sewer, which reduces the possibility of water backing up in periods of heavy rainfall. If a common sewer is used for wastes and rain water, the connection of the downspouts to the city sewer should be made beyond the catch basin, and beyond a back-water valve, if this is used to keep water out of the basement. In extreme cases, it may be necessary to install a sump and sump pump to handle the problem of water backing up to basements because the sewers are too high in the street, or because of insufficient capacity.

Materials for the drainage system are often specified by local plumbing codes. The commonly used materials for house sewers outside the house are clay tile, fibre or concrete pipe, and cast iron. Tile is cheapest and most easily installed, but may crack with settling of the ground, permitting roots to get in the pipe and obstruct

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Courtesy Kohler of Kohler

"High style" cabinet lavatory is built of laminated wood in natural wheat color, with one-piece laminated plastic top in colors to match bathroom decorating scheme



*Bathroom
Beauty
by NATCCO of course!*

Model 1102FL
Illustrated

There's a reason why National Steel Cabinets are leaders. Architects and home builders know they are getting quality at a reasonable cost and each cabinet model has individual features that make it attractive for any home—whether it is the beautiful Ambassador Model 1000—or the Budgeteer Model 400.

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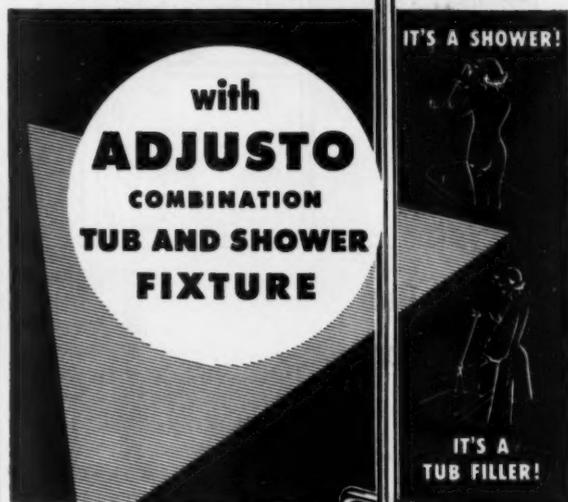
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CHICAGO 39, ILL.

APRIL 1953

SWING-DOWN



**for modern
bathrooms**



ADJUSTO does the same thing for the modern bath that the swinging spout faucet does for the kitchen sink—one fixture mixes hot and cold water for full stream or fine spray. Saves time and money in installation! Adds finger-tip convenience!

ADJUSTO can be installed after tiling and decorating is completed—eliminating danger of theft or damage.

Only one set of valves—no danger of back siphonage.

ADJUSTO gives a modern look to bathrooms—definitely helps sell houses.

SWING-DOWN FOR:

- Standing Showers Without Bathing Cap
- Sitting Showers
- Easy Shampooing
- ... and the children love it



ADD-ADJUSTO

It's easy to modernize existing fixtures into tub and shower with ADD-ADJUSTO Fits any standard tub filler.



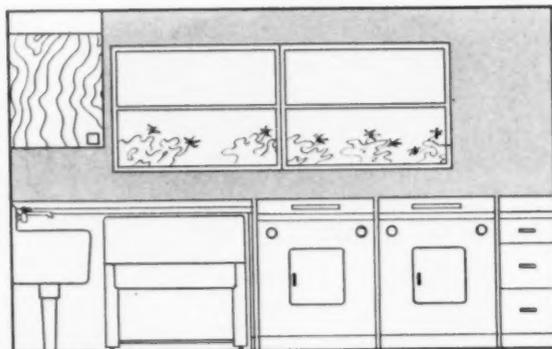
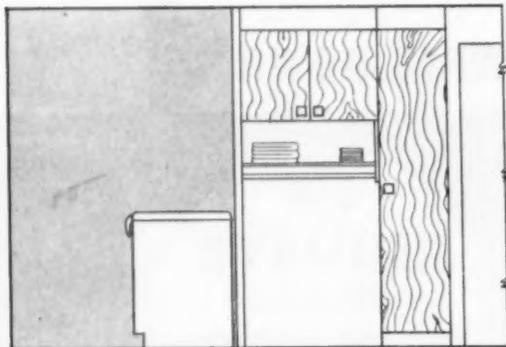
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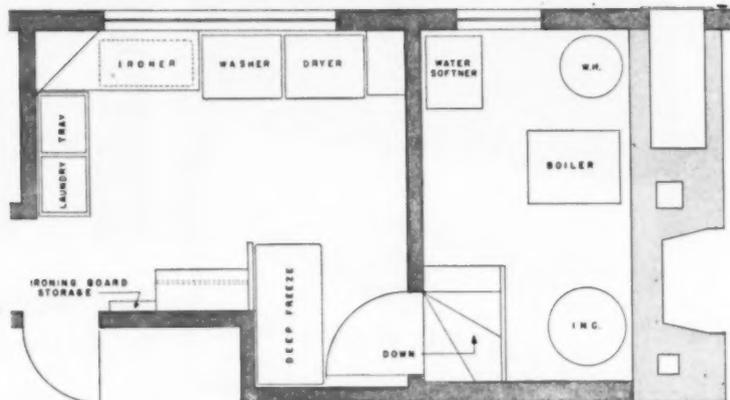
309



laundry and utility room . . .



Courtesy American-Standard



Laundry and utility room layout above suggests the use of gas-fired, fully automatic water heater, a storage type unit that is fast heating and well insulated. A draft hood prevents down

drafts or excessive chimney draft. The double compartment enameled cast iron laundry tray provides a generous washing and rinsing area

the flow. Cast iron is most expensive, but is permanent and trouble free.

Inside the house, piping for drainage may be of cast iron, clay tile, or fibre pipe for subfloor sewers, and of cast iron, galvanized steel or

wrought iron, or copper, brass, or lead for above-ground piping. Cast iron is most commonly used for 3-inch and 4-inch lines handling toilet wastes, while smaller sizes are galvanized pipe or cast iron.

Good Installation Practices

The plumbing installation will customarily be made by the plumbing contractor, who will be a licensed master plumber. While it is his responsibility to see that the installation is properly made, in accord with local codes and requirements and in a workmanlike manner, the builder should also see that the specifications for plumbing meet these requirements and that the work is installed in line with the specifications. The cutting of corners, such as installing used pipe or fittings, using standard instead of extra heavy soil pipe, supplying valves or faucets of lower quality than specified, etc., should be guarded against. The best insurance for a good installation is the reputation of the plumber doing the work.

Plumbing Codes

Because of the importance of good plumbing to good health, it is probable that no other phase of building construction is so rigidly controlled by code requirements. Variations, both minor and wide, will be found throughout the country, but the following provisions, in one form or another, may be considered typical of the requirements for good plumbing:



Courtesy Crane Company

Bath and shower installation provides convenient grab rail for safety as well as ample storage space for towels and other bathroom linens and accessories. Large mirror combines with natural wood paneling to enhance beauty of bathroom



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GLAMOROUS! Bathroom Beauty that fits any recessed tub!
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- **BE READY TO MEET THE DEMAND!** Have Gulfspray shower doors and tub enclosures readily available to your customers. Gulfspray is the "extra" they're looking for.
- **FEATURING:** smooth, overhead operation or piano-type hinges, scientifically designed drips (drain water back into tub or enclosure), heavy-gauge aluminum or stainless steel . . . and wide selection of clear or patterned glass.

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A low cost feature that adds "sell" to any home you build!

The Cascade is made of lustrous, jewel-like Plexiglas, successor to glass where appearance and safety are paramount . . . artistically fluted by FIAT to add sparkling splendor to any bathroom. The two rigid panels glide smoothly in aluminum track at the touch of a fingertip. Comes in Crystal Clear, Petal Pink, and Glamor Gold; fits any 5- or 5½-foot recessed tub.

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Bathroom Fixtures

Bathtubs are made either of cast iron or pressed steel, having a hard coating of porcelain enamel which is resistant to abrasion and corrosion. Present style is for an apron tub, having a skirt extending to the floor on all exposed sides and end. A roll rim, single-shell type of tub is made for economy installations, and is a great improvement over the old footed tubs. A great variety of styles are made; corner, recess, square, with or without seats, and either white or numerous colors. The 5-foot length of tub is usual, although 4½- and 5½-foot tubs are made. The square tubs occupy a 4-foot square space, and solve many otherwise difficult space problems. A special receptor type of tub permits either showers or sit-down baths and occupies a space only 42 by 31 inches. When used with a corner lavatory, bathrooms can be fitted into a space as small as 6 by 5 feet. However, most building codes specify minimum room areas, including bathrooms.

Lavatories

Lavatories are of two general types: the flat-top style, having the faucets on the same level as the rim of the fixture; and the shelf-back

model, having the supply valves on an inclined or vertical ledge. The flat-top style is most economical. Set about two inches away from the wall, it permits cleaning behind it, but the wall should be waterproofed against plaster damage. A variation has the faucets at rim level, but a straight back fitting against the wall for protection.

A new development in bathroom styling is the countertop lavatory. These are designed to fit into a counter top of linoleum, glass, laminated plastic, or other materials. Such an installation makes possible combining two lavatories in one counter top for greater utility; also, a dressing table may be added. Extra storage space or hampers below the counter are also a possibility.

Toilets

Three major types of water closets are in common use; the siphon jet, the reverse trap, and the washdown. The washdown costs the least and the siphon jet is the most expensive. The latter is preferred because it has a deeper water seal, a larger trapway, a more positive flushing action, and a much larger water area. The modern styling of siphon jet bowls adds to the appearance of the bathroom in which they are installed.

LUXURY in the MODERN BATHROOM

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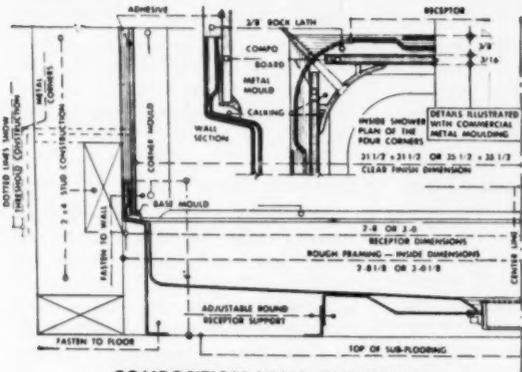
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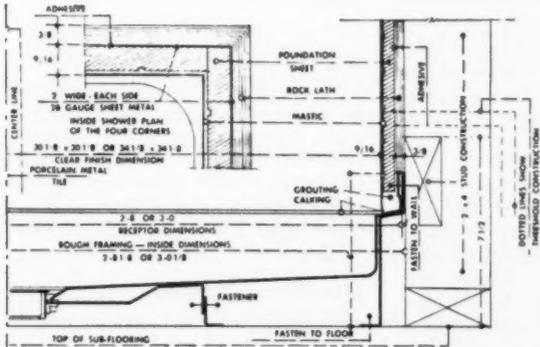
shower receptor installation . . .



COMPOSITION WALL MATERIALS

Constructed with a non-slip surface, this basic shower bath receptor is designed to fit into any custom-built shower installation. Reinforced for structural strength, the unit is sound-proofed and completely self-contained. It may be used with a wide range of wall materials including ceramic tile, structural glass, metal tile, glass block, and a wide range of composition materials

Courtesy Milwaukee Stamping Company



PORCELAIN METAL TILE

HOW MUCH WATER IS NEEDED?

Average Quantity of Water Required for Different Services Supplied by Water Supply Systems

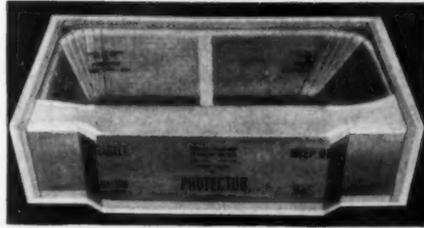
Each member of family	25 gallons per day
Each horse	10 gallons per day
Each dry cow or steer	12 gallons per day
Each milk cow	25 gallons per day
Each hog	3 gallons per day
Each sheep	1 gallon per day
Chickens, per 100	4 gallons per day

Approximate Flow of Water per Minute Through Average Fixtures

Shower Bath	5 gallons per minute
Tub Bath	10 gallons per minute
Lavatory	5 gallons per minute
Toilet Closet	5 gallons per minute
Valve Closets	30 gallons per minute
Kitchen Sink	10 gallons per minute
Laundry Tub	10 gallons per minute
Flowing Drinking Fountain	1 1/2 gallons per minute
Garden Hose, 3/4" nozzle	5 gallons per minute

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HAVE FIELD-TESTED and PROVED to the satisfaction of Federal Housing Authorities and tradesmen everywhere that PROTECTUB is the ideal product for the job. It's quick and easy to install and quicker to remove leaving a clean undamaged tub.

NOTE! When specifying or buying ask for genuine PROTECTUB by name.

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Lucke Leak-proof Bathtub 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 Bathtub Hangers you have no warranty worries.

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- No repair expense

FINE FOR SHOWER RECEPTORS, TOO

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

NAME

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

STREET

CITY ZONE

STATE

Any of these types of closet bowls may be used with any type of tank; one-piece, close coupled, or regular wall-hung tanks. The washdown closet, for economy, is made only with wall-hung tanks, but the siphon jet and reverse flush bowls may be made also with close coupled or integral tanks. The close coupled tank generally sets away from the wall and is bolted to the bowl. The integral tank is cast in one piece with the bowl.

Showers

An overhead shower will almost always be installed over the tub. The water and drain are there, and the additional cost of a diverter tub filler and shower head are negligible compared to the convenience of a built-in shower.

Shower valves may be part of the tub installation, where the diverter mixer faucet also controls the shower; a simple two-valve set-up leading to the shower head; a mixing valve, where one valve controls both the hot and cold water, or a thermostatic unit incorporating a mixing valve plus automatic temperature adjustment when the flow of either hot or cold water is changed by water demand elsewhere in the house.

Cabinets and Accessories

The medicine cabinet over the lavatory, standard for years, has developed into a wide variety of bathroom storage units. Cabinets for toilet articles are larger, have bigger and better mirrors, and are also usually fitted with lights for shaving or make-up. Both wood and metal constructions are used. Built-in holders for tooth brushes, shaving accessories and razor-blade disposers are common, and one unit even features a locked compartment for dangerous medicines in households having small children.

Kitchen and Utility Fixtures— Sinks

Modern sinks range in size generally from 42 to 96 inches in length, and have more than ample workroom if their size is chosen according to the family's needs. It is desirable to install the two-drainboard sink if space permits. The double bowl sink, having separate compartments for dishwashing and rinsing is preferred by housewives.

Drainboard sinks may be obtained in widths of 42, 48, 54, 60, and 66 inches. For sinks built into a counter top, a 24 by 21-inch bowl is about minimum, while a 30 by 21-inch size gives better work room. Double-compartment sinks for counter top installation are in 32 by 21-inch and 42 by 21-inch sizes. Cabinet bases of

wood or metal can be had for sink installations in lengths of from 42 up to 144 inches. Longer units include cupboards or drawers in addition to under-sink compartments. Special brackets and drip mouldings are available for mounting sink bowl units in any type of custom-built counter top.

Laundry Trays

Although there are available combination sink and laundry tray units which have two compartments, one for dishwashing and a larger one for laundry use, these are recommended only for reasons of greatest economy or space saving. Typically, a laundry tray will be provided in the basement or utility room, together with water heater and water softener in localities having hard water conditions.

Laundry trays are made of enameled cast iron, earthenware, or cement composition. One, two, or three compartments are supplied, with single compartment units being especially suited to installations in conjunction with automatic units.

Water Softeners

Water softener units are a necessity in many areas. Any water having more than three grains of mineral salts per gallon is considered hard enough to require softening. A softener is an added sales feature for a home, and will soon pay for itself in savings.

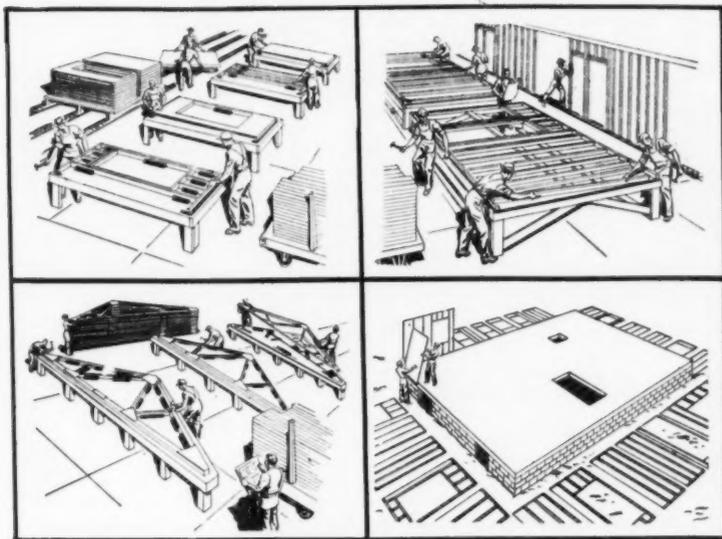
Hot Water Heaters

Domestic hot water may be heated either by units built into the house heating system, or by separate gas, electric, coal, or oil heating units.

Electric heaters have a relatively large storage capacity. The operating cycle assumes that water will be heated in the storage tank at night, during the time of low power demand on the utility company's facilities. The hot water is then held in storage in a well-insulated tank for the next day's use, and enables an attractive rate to be offered for the electricity used. Such units should be of ample capacity, so that more than average use of hot water will not require the use of electricity during the day at higher rates.

Gas hot-water heaters are supplied in sizes to handle the needs of all sizes of families, and with different tank and insulating materials. A 30-40 gallon storage capacity is suitable for the average family of three or four. Tanks are of galvanized steel, porcelain-lined steel, or monel metal, and are priced and have greatest durability in that order. Insulating material is generally glass wool or fiberglass.

prefabs ... go up in a hurry ...



Courtesy Pease Woodwork Co.

Shop operations in the production of panelized construction usually comprise (1) assembly of framework; (2) installation of necessary wiring, framing for fixtures, duct work, water pipes and similar equipment; (3) attachment of the framing of window and door openings; (4) fixing insulation and vapor barriers in place; (5) attachment of cover materials and window and door trim; and (6) painting and other finishing

Prefabrication offers today's builders an opportunity for profit, with a choice between construction of "complete" homes prebuilt in the factory, and the use of prefabricated structural members to be assembled on the site in conjunction with conventional building techniques and materials. The prewar economy buildings and the wartime Quonset hut have grown up, and so has the prefabrication industry, with dozens of firms selling homes and more than twenty who will provide a catalog from which may be selected stores, factories, offices, and warehouse buildings.

Opportunities for Profit

For the individual contractor or builder with minimum capital to invest, "complete" prefabricated homes offer unique opportunities for profit. Financial risk is reduced because of greater assurance of de-

livery, quality control of materials and finishes, low overhead for the builder, and minimum investment.

Field erection is fast and easy due to accuracy of dimensions and fit, and the use of standardized sizes of structural members. Houses can be placed under roof in one day with the consequent advantage of sheltered construction for the rest of the work. Erection costs are thereby reduced and volume construction made possible.

The builder also benefits from the sales promotion and advertising aids of the manufacturer, as well as from the research and advisory services of the manufacturer's organization. Even financing is offered by some manufacturers.

Economies—

Prefabrication makes economical use of building materials and manpower. Marked savings come

PREFABRICATED STRUCTURES and STRUCTURAL MEMBERS

Use of Prefabrication

Opportunities for Profit

Salability

Combination of Prefabrication and Conventional Building Methods

Prefabrication Construction Methods

Roof Design

Joint Design

Site Assembly

Erection Procedures

Sequence of Operations

Assembly of Panels

Metal Prefabrication

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.



Component parts of prefabricated home at left include: (1) Truss supports; (2) Roof sheathing; (3) Roofing paper (4) Asphalt shingles; (5) Gypsum board ceiling; (6) Wall framing stud; (7) Upson board with moisture barrier; (8) Fiberglass insulation; (9) Plywood sheathing; (10) Asphalt barrier; (11) Shakes or siding; (12) Box beams; and (13) Flooring

Courtesy P & H Houses Division, Harnischfeger Corp.



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Exceptional Quality • Conventional Construction
and Appearance • Architect Designed Homes
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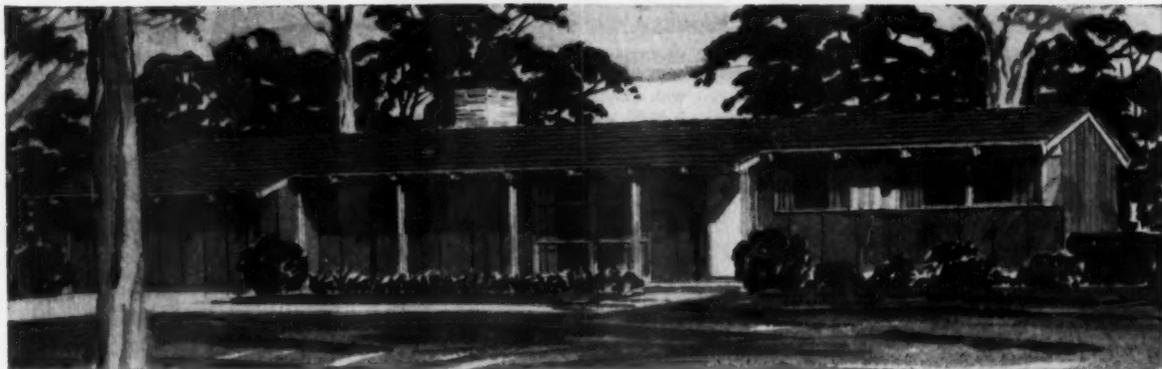
Attention Builders

We have openings in a number of localities for qualified builders. If you have sound financial resources and an established reputation for building well-designed, high quality homes, this is an exceptional opportunity for you. Write today on your letterhead.



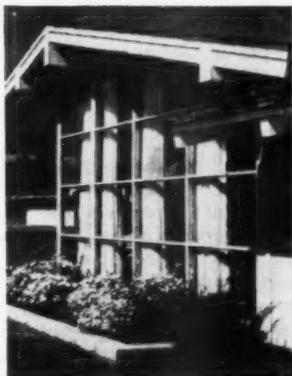
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See feature article in this issue which gives complete details on the **Scholz Designed** "California Contemporary" homes which sold out original project of 43 homes in 9 days and an additional 60 homes in 60 days in Toledo. These homes are being built for \$9 a sq. ft., an unmatched figure today in the Mid-West and are complete, including tile baths, woodburning fireplaces, thermopane, complete insulation, vent fans, hot water-radiant heat. This record is in the process of being duplicated in other cities. Midwest Millwork and Supply Corp. is now shipping these same units along with complete cost estimates,



engineered procedures, and cost-cutting techniques, to builders throughout the middle-west. Progressive builders can not afford to fail to investigate this combination of rock bottom controlled costs, building know-how and sales appeal.

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1 First step in erection of prefabricated basementless home. Crew stakes out ground area for slab. Pipes and conduits are put into position



2 Concrete foundation wall must extend below frost line. Depth varies with climate of location. Inside area is filled with 4 inches of pea gravel



3 Continuous water-repellent blanket of sisalkraft paper is laid over gravel and foundation to give vapor seal, keep cold and damp from slab



4 Fiberglass insulation is laid around rim. Entire surface is covered with wire mesh, and concrete is poured. Slab is insulated and vapor-sealed



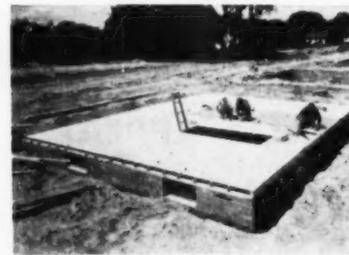
5 Finish coat of concrete is applied to entire area of floor slab. A smooth surface is provided to insure smooth floor when laid on slab



6 First step in erection of home with basement is installation of foundation walls with openings for basement windows in place



7 Second stage for home with basement is installation of either wood or steel posts, girders, and beams to give firm base for floor and walls



8 Laying finish floor for home with basement. Panelized sub-floor has already been installed. Finish flooring is laid on the job



9 Tractor trucks are loaded to conform with order in which panels and units will be required on the site. Care is taken to preserve finish of surfaces

Courtesy National Homes

fast site erection of prefabricated units...

through the planned engineering of prefabricated homes, mass purchasing and the more economical use of building products in the factory.

Further savings are achieved at the job site. The dealer-builder of prefabricated homes receives the exact amount of materials needed for each dwelling. He does not "over-buy" to assure that ample supplies will be on hand to complete his houses. Few materials are wasted.

Much of the work on a prefabricated home is completed in the factory where power machinery and line production methods reduce man-hours. In the field, these

homes are erected with one-half to one-third the site labor required for conventional building.

Salability

Manufacturers' attention to design, which now ranges from the traditional to contemporary styles, with the inclusion of personalized features, has gained increasing acceptance and popularity for the prefabricated house.

Individual taste preferences are satisfied in a wide range of interior finishes—plaster, gypsum board, or almost any other type of wall covering—and in flexibility of room arrangements. Variation in elevations, ornamental exterior details

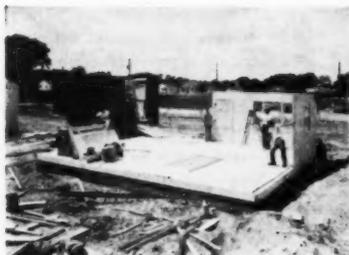
and floor plans removes the element of sameness which formerly marked many low-cost homes.

The assurance of delivery to the customer, the reputation of quality materials and construction, and the low-cost feature make these prefabricated models particularly attractive for FHA and GI financing. They carry a high rating for such government approval, and are therefore easily marketable.

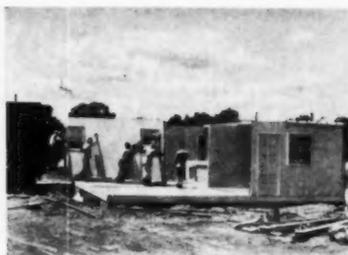
Combination of Prefabrication, Conventional Building Methods

For those who find it more practical to combine conventional on-site methods with prefabrication,

AMERICAN BUILDER



10 Trailer is backed up to one corner of home. Panels are erected directly from truck with no rehandling. First corner is being erected



11 Center bearing-wall in position with first ceiling sections temporarily located. Note room size panels with doors, windows, and trim already installed



12 Men here are raising exterior panel that will complete the rear wall of this home with full basement. Quality control in factory insures "fit" on the site



13 With all walls and ceiling sections in place, work begins on roof. Men are installing ceiling purlins. Note notched rafters at right



14 Carrying first roof section to its position. Notched rafters have been prepared to receive roof sections and speed erection



15 With first roof section in place, second section goes up to meet it. Factory equipment such as large tenon saw makes 23 notches in rafter at one time



16 With roof peak formed by two sections, roof moves rapidly towards completion. A total of only 3 or 4 hours puts the house under roof!



17 All roof sections are now in position and being nailed down. Pre-assembled gable ends will be moved into position next to complete roof structure



18 Shingling starts 3 to 4 hours after first panel is unloaded. Interior finishing, wiring, plumbing, landscaping, will require 10 days to two weeks

Courtesy National Homes

homes are under roof in one day...

there is an opportunity for profit in cooperation with an important member of the building industry—the lumber dealer. Without going into "complete" prefabricated construction, the builder can still take advantage of some of the money-saving features of prefabrication.

Prefabrication by definition requires the use of factory production methods, and individual builders may have neither the equipment nor the storage space to develop these methods. By arranging to serve an individual builder, or group of builders, the lumber dealer may use his facilities to prefabricate on a profitable scale.

Roof Design

Some units such as roofs are less adaptable to shop prefabrication in the form of panels than others and therefore rafters and roof boards may be pre-cut for site fabrication. The flat roof and simple gable roof are the most common prefabricated types. Pitched roofs can be designed for partial or complete prefabrication. Usually gable ends are prefabricated in sections for quick assembly at the site.

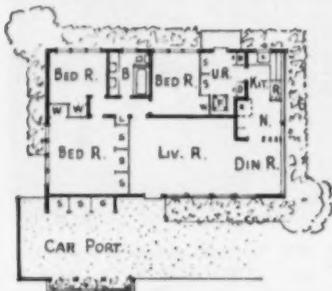
Design of gable ends is generally a simple matter of plywood or other sheathing fastened to studs with nails or glue. The roof is

often of stressed-cover construction. Plywood or other coverage is often fastened to rafters on one side only, and the roofing is applied on the site.

Joint Design

Joint design is especially important in prefabrication because it not only affects the strength of such structures but also governs to a great extent the degree to which parts are interchangeable and the ease with which the structure can be erected. Three types of joints are discussed here: (1) those between panels; (2) those connecting

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- dimensionally flexible—on a modular system. (Ask us for the details.)
- you, the builder, profit with the wholesale package—pre-cut, shell or complete—shipped direct to you.
- you gain through the Virginia Lee fully tested labor-saving, time-saving, money-making methods. You gain through faster turnover, more sales, less details, less invested capital. You avoid costly mistakes, unnecessary waste and endless red tape.



- these homes have proved salability.
- these homes are easy to finance—FHA and VA accepted.
- on the basis of a record you can check, we urge you to write, wire or phone to Dept. 11 for the full story.



VIRGINIA LEE HOMES, INC.
DEXTER HORTON BLDG., SEATTLE, WASH.
"The West's oldest packaged home manufacturer"

**7 reasons why
FORD HOMES
SELL!**

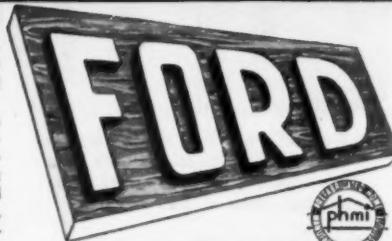
- 50 models plus special designs
- Choice of exterior treatment
- Quality materials and workmanship
- Complete Factory-Built panels
- Delivered direct to foundation
- Erected in less than 60 man-hours
- High appraisals, easily financed



Ford Homes are available in modern, or conventional style—flexible in design to assure quick sales and satisfied customers.

Triple profits—less labor—less sales effort—lower cost, faster turnover, less invested capital, no material chasing with Ford Factory Built Homes. Send for free catalog and dealer application or visit our plant.

Manufacturing franchise also available beyond Northeastern trucking distance.



Ivon R. Ford, Inc.
McDonough, New York

the walls and floors to foundations; and (3) those attaching roofs to walls.

(1) *Panel Joints*—A major problem of joint design is that of concealing the joint lines. This is in no way connected with the strength or durability of the structure but is of great importance from the standpoint of consumer preferences.

Exterior joints can be entirely concealed by attaching finish siding or some other coverage to the plywood or other sheathing at the site, but this increases cost. One treat-

ment is to emphasize the joints with covering strips. A common practice with houses of modern design is to bevel the edges of abutting panels, which results in a V-joint. Interior joints may be similarly treated or covered with wallpaper, or accenting moldings, or insert strips.

The problem of seam treatment at joints is eliminated when roomsize sheets of wallboard are used and rooms are so planned that joints between sections of walls are concealed by intersecting partitions. Conventional moldings are then used to cover corner joints at walls, ceilings and partitions.

*Low-cost * Ameribows Delivered Direct To Your Job!*

BY TRUCK
OR RAIL
ANYWHERE
IN THE
NATION!



EXCELLING
IN
STRENGTH,
DURABILITY,
ECONOMY!

* Ameribow—Glue-Laminated Bowstring



AMERICAN Roof Truss
1038 East 87th
Chicago

Build Profitably

in Today's Market . . . with NATIONAL HOMES!

According to leading housing authorities, 84% of all homes built this year will cost under \$15,000, and the demand is largely centered on "open planned" homes.

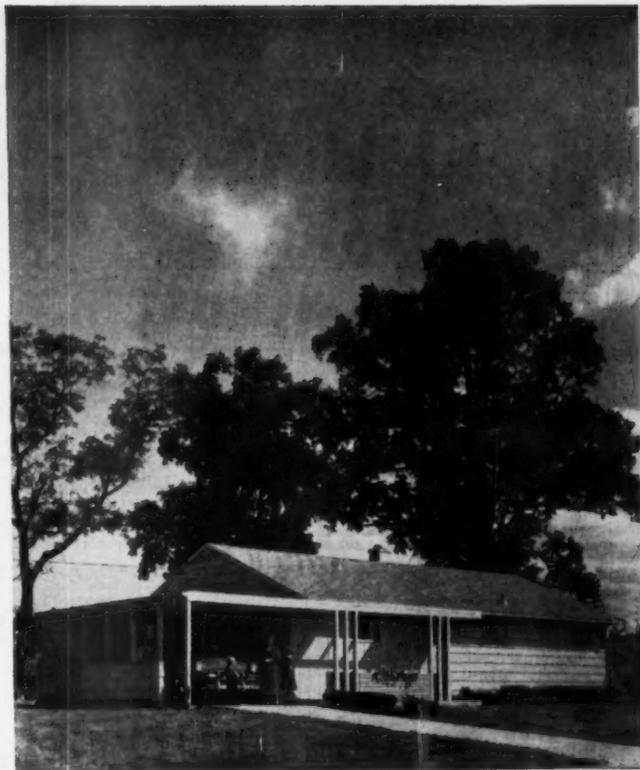
You can satisfy this market with *luxuriously-styled, functionally-designed, precision-made, reasonably-priced* National homes.

National Homes' 2, 3, and 4-bedroom sizes (some with bath and a half) range in price from \$7,000* to \$15,000.*

The MONTEREY (right) 3-bedroom house with rear living room, dual-purpose car port and many other great features, sells for about \$12,000 with liberal profit to the builder.*

As a National Homes' builder you buy all structural and component parts in a complete package from one reliable source . . . no inventory . . . no warehousing . . . no purchasing problems. Investigate National's profit opportunities today. Write or wire.

*Prices are subject to local variations



(Above) The CORNELL, National Homes' 3-bedroom house, sells for approximately \$8,000.*

(Below) The BRENTWOOD, National Homes' 2-bedroom house, sells for approximately \$7,000.*

Both come in a choice of smart exteriors. These lowest cost homes open a tremendous market in the low income group, with the legal minimum down payment.



Yearly Average with Nationals Exceeds 4-Year Total as Conventional Builder!

SAVAGE HOMES, INC., Utica, N. Y.

As a conventional builder, I put up 85 houses in the four years 1946-49. When you opened your Horseheads plant I took on the National line. Our first year we erected 50 units; the next year 98. For 1952, 110 Nationals. That's a yearly average of more National homes than our four-year output of conventionals!

W. C. Morse



National Homes' prefabricated panels and structural parts as they leave the assembly plant carry the Good Housekeeping guarantee seal and the Parents' Magazine seal of commendation as advertised therein.



**THE ONE SURE WAY TO
cut building time
and
payroll cost**



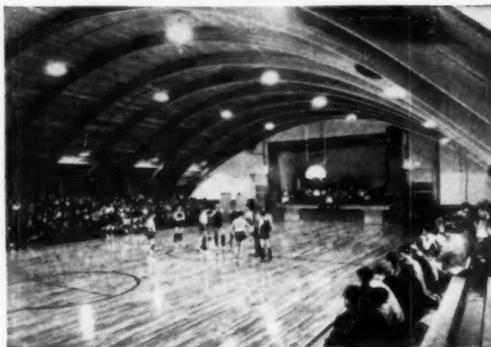
C. T. Hubbel Lbr. Co. Warehouse, Albany, N. Y.
Contractor: Rosch Bros., Albany, N. Y.

● The sooner you can get a contract completed, the sooner you can turn the job into cash . . . the sooner you can get started on your next building.

Rilco Glued Laminated Wood Arches and Trusses help you do just that . . . without hiring a lot of extra labor or adding specialists to your payroll.

Rilco structural members come to your jobsite ready to be assembled and swung into position. There isn't a sawcut to be made . . . not a bolt hole to be drilled. Every piece fits perfectly . . . and goes together fast. Your regular carpentry crew does the work without special tools of any kind.

There are standard sizes and types for practically any sort of building . . . and Rilco engineers will be glad to work with you to develop special designs for any specific structure. Write for money-saving details.



School Gymnasium at Bennett, Colorado

RILCO

**WORKS WONDERS
WITH WOOD**

Laminated **PRODUCTS, INC.**

2511 FIRST NATIONAL BANK BLDG.
ST. PAUL 1, MINNESOTA

**If you build houses
in this area . . .**



**YOU SHOULD KNOW ABOUT
HOME-WAY houses**

Featured in
LOOK

magazine, Feb. 10,
1953, as a product
of one of America's
25 leading prefabricators.

GOOD TERRITORIES OPEN for progressive builders who want to cash in on all advantages of prefabrication plus wide variety in prices, plans, features to meet every buyer's needs. High quality. Approved under modern building codes. Liberal advertising-merchandising program. Good profit margin. **WRITE FOR DETAILS.**

GBH-WAY HOMES, Inc., Dept. DB, Walnut, Ill.



Courtesy Richmond Builders, Inc.

The prefabrication industry has been highly successful in furnishing quality homes for middle and lower income families. One-story ranch type home above, with flat roof carport, arrives at site with exterior siding applied and prime coated, interior walls applied and finished, windows complete with weather stripping, screens and doors ready to install



Courtesy G B H-Way Homes, Inc.

Lenders like prefabricated homes because they know exactly what house will be like when completed, what final cost will be, approximately how long it will take to erect. Homes such as this semi-luxury ranch type with attached two-car garage are built with standardized panels, are ideally suited for later expansion as interior partitions are non-load-bearing and may be rearranged easily

More and More of America's New Homes are PREFABRICATED!

The principal problem, however, is to obtain an effective linkage of the component parts of the walls, partitions, floor, ceiling and roof. Methods include bolted joints between panels and at corners; joint between panels utilizing male and female studs; corner joint with cover of one panel overlapping edge of other; mullion joint; corner joint with mullion; joint consisting of plywood tongue fitted into groove between a pair of studs of opposite panel; spline joint in floor panels.

(2) *Joints Between Foundation, Floor and Walls*—Joints between roof and walls must of course anchor the entire building. A general practice is to join the floor to the foundation sill, which has been fastened to the foundation and the walls to the floor.

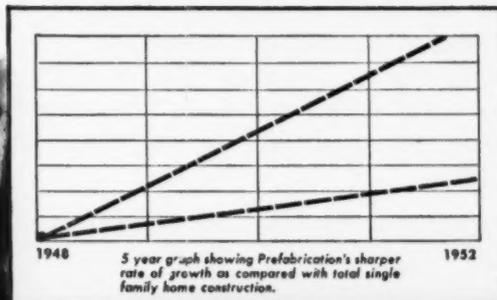
Other techniques used are: recessed foundation sill with wall panel overlap; sill plate bolted to foundation, conventional joist and floor construction, and prefabricated wall panel with base opening for electric wiring; and floor and wall panels clipped to foundation by means of channel fitted with flange for wall support.

(3) *Joints Between Roofs and Walls*—Joints between roofs and walls must function to resist both lateral and lifting forces such as high winds, and to resist outward thrust. A joint similar to that in the conventional pitched roof framed with rafters and joist can be applied to a prefabricated house. The roof rafters are pre-assembled with plywood coverage in sections and nailed to the ceiling joists at the building site.

Erection Procedures

Most prefabricators plan their assembly operations to get the outer shell under roof in a day or less. Everything that will contribute to speedy shell assembly, including the laying of base plates for wall panels, should be done beforehand to help speed shell erection. All equipment needed to move and lift panels into place and fasten them together should be at the site, ready for use. Careful planning of details, from the loading of the truck at the shop so as to permit unloading of panels in the order needed, to an orderly plan of erection of panels in sequence is strongly advised by experienced builders.

All parts can be numbered in sequence of erection and such numbers clearly stenciled before leaving the shop so that loading will follow an orderly pattern and confusion on the site be avoided.



Swing of Builders to Prefabrication Sets
New Records as Industry Celebrates

10th Anniversary

Responsible for the spectacular gains of Prefabrication is the fact that Prefabrication delivers the *utmost* for the building dollar. New sales records continue to be set in the Prefabricated field because Prefabrication provides permanent, attractive homes geared to comfortable living and meets housing needs quickly and economically. Furthermore, Prefabrication's modern methods result in greater savings, from economy model to luxury home. In 1953, as it celebrates its 10th Anniversary, the Prefabrication Industry is ready for its greatest year. Join this big swing to Prefabrication.

Today, write for FREE booklet, "Build Better, Build Sooner."



**PREFABRICATED HOME
MANUFACTURERS' INSTITUTE**

930 20th St. N.W.

Washington 6, D. C.



for project builders

Prefabrication is the answer to increased profits for the builder of large projects. Richmond Homes will prefabricate your entire project, using your own successful plans to create a variety of exterior elevations. You can build faster, at lower cost, with fewer headaches, when

you use Richmond Homes. Sections are shipped with BOTH interior and exterior finish applied. Richmond Homes are regarded by competent builders as the shining example of the finest in prefabricated homes because of conventional construction features and custom-built appearance. Investigate the tremendous profit possibilities . . . today!

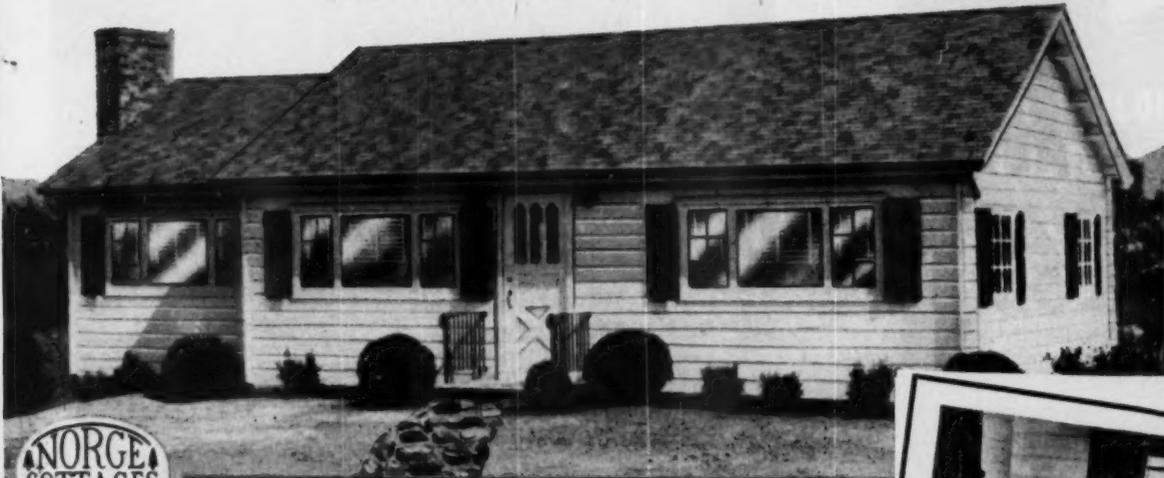


Our program, naturally, has certain requirements relative to the financial status and experience of the builder. If you feel that you can qualify, we would like to hear from you. Write, wire, or phone for complete information. New 1953 brochure now available.

RICHMOND
homes

RICHMOND HOMES, INC.
440 Northwest "K" Street, Richmond, Indiana

Dealers say: "Norge owners are real sales boosters!"



"We think the **Norge Home** has the maximum of good features—easily constructed, low labor cost, beautiful exterior as well as interior, and minimum upkeep. We are tremendously pleased in every respect with this house.

"The only insulation in the house is loose rock wool in the ceiling, and the heating has been very satisfactory during the coldest days that we have had—about zero. The total cost for oil from October to March was \$75.00."
—Brandon Haggy

"Each Building is a Standing Advertisement!"

The enthusiasm of Norge Home owners prompts letters, similar to one received from Norge dealer Robert Nicholson, of Oak Ridge, New Jersey. In part, Mr. Nicholson wrote: "We have sold over forty Norge Homes. It is a thrill to meet prospective home buyers who tell us how completely satisfied their friends are with their Norge Homes. Norge owners are real sales boosters, and each of the erected buildings is a standing advertisement."

Erected in Just Thirty-two Hours!

Norge dealer E. Burke Finnerty, of Haskell, New Jersey, who received a Norge franchise earlier this year, writes: "The elapsed time, from the moment the first bundle of lumber hit the ground, to the finished building, was thirty-two working hours. The crew of four men, who erected this Forest Hills model building, have put up a total of thirty-one buildings."

PATENTED INTERLOCKING SYSTEM!

The secret of the speed with which the *Norge Cottage* can be erected lies in the special manner of interlocking the various planks and boards. This unique and exclusive process is known as the Tregaard Interlocking System. The smaller cottages can be erected in a day, on pier or solid wall foundation, and no elaborate plans are required—only a few simple directions.

Write today for information relative to a Norge dealer franchise for your territory. A number of choice areas still open!

STURDY CONSTRUCTION

The tongued and grooved two-inch thick wall planks, with precision interlocking at both ends, assure maximum strength and rigidity. And the longer the cottage is up the stronger it becomes structurally. Because of the unusually sturdy construction, the *Norge Cottage* is an all-weather cottage.

NORGE COTTAGES, INC.

21 West Street, New York 6, N. Y.



A beautifully finished interior!

I am very pleased to advise that after making a thorough investigation of your Norge Home I find them as rugged and strongly built as any house of this type could be, and far superior to most. I particularly like the method of joining the walls as it presents an unusually strong and lasting assembly, and your method of constructing the roof, and your I believe you have a superior product.

Douglas Tuomey
*Douglas Tuomey Building Editor—Living Magazine—Government Building Inspector—author of nationally syndicated newspaper column.



Model Home of E. Burke Finnerty & Associates—erected in thirty-two hours!

Tregaard Interlocking Device Eliminates Nailing Throughout. (Patent No. 2588814)



NORGE "PRE-CUT" COTTAGES

LACLEDE STEEL COMPANY

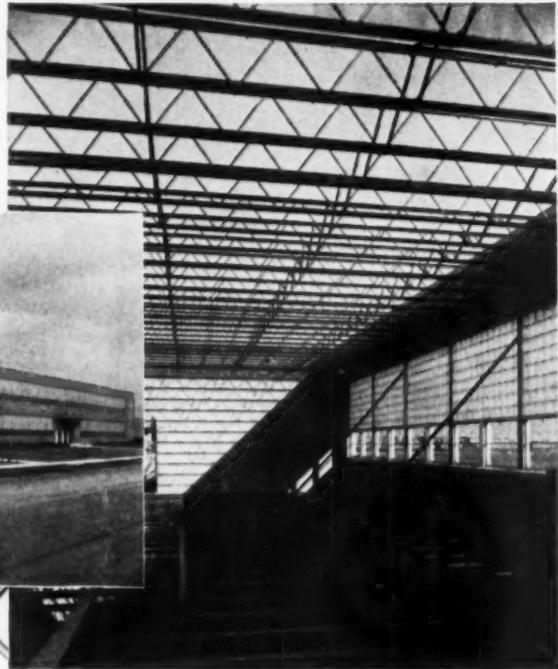
St. Louis, Missouri

Producers of Quality Steel For Construction and Industry.

FOR **STRENGTH ...**
ADAPTABILITY ...
ECONOMY ...



Lincoln High School in East St. Louis, Illinois
S. T. Pabst, Architect; Ferd Ganschmierz, Contractor



Specify these
Laclede Products
for your
construction
needs



... use **LACLEDE**
STEEL JOISTS

FASTER CONSTRUCTION—light,—easily handled—prefabricated to speed the job.

ADAPTABLE—Laclede Steel Joists combine efficient structural function with architectural versatility.

ECONOMICAL—Laclede Steel Joists assure you more room at less cost. Their high strength *plus* light weight provide substantial savings in foundation and framework. Utility conduits, pipes and lines are easily threaded through the open webs.

- Multi-Rib Reinforcing Bars • Steel Pipe • Laclede Steel Joists • Welded Wire Fabric • Form and Tie Wire • Round and Square Spirals • Conduit • Corrugated Steel Centering • Electrical Weld and Gas Weld Tubing.



Producers of Steel
for Industry and Construction

LACLEDE STEEL COMPANY

St. Louis, Mo.



METAL building products used in light construction are far too numerous to catalog or describe in detail in this article. Plumbing, heating, wiring, appliances and fixtures in bathroom and kitchen, as well as numerous structural parts of the home use metal, either because of cost, ease of handling, strength, wear resistance, or some other special property no other material possesses for the job.

STRUCTURAL MEMBERS

The American Institute of Steel Construction specifies twelve advantages to steel construction: strength, uniformity of material, endurance under stress and service load, toughness against shock, adaptability, versatility for design, fire safety, compactness in space, speed of construction, salvage value, economy of material, and service from a giant industry.

Framing

Steel joists and complete steel framing in light construction have been found economical by many builders. Panel assemblies with nailable steel framing members may be partially fabricated at the shop of the steel distributor. Shop prefabrication can be supplemented by site cutting

and final assembly. Assembling steel members on the site requires a power saw and portable welders. The nailable feature of the framing members makes it possible to apply other conventional materials to studs and joists with 8d nails.

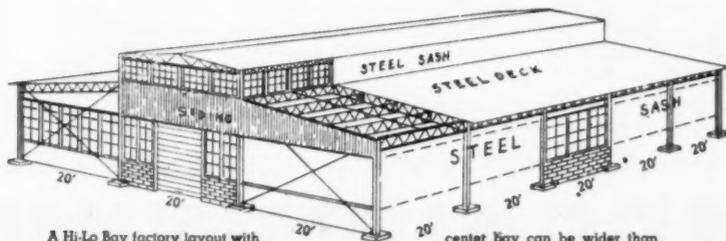
Insulating board sheathing may be applied directly to the studs for the exterior wall. Dry-wall construction is possible inside without furring because of the nailable feature of the studs.

A number of manufacturers are now producing a wide range of standard sizes and shapes useful in bridging, trusses, or as joists, many of which units are to a large degree prefabricated by the manufacturer, ready to use.

Columns and Posts

The familiar concrete-filled steel column has long been recognized as one of the strongest building members. It is fire-resistant, economical to install, and takes little space. These columns may either be fixed or adjustable, and may be filled with concrete by the manufacturer or on the building site.

These columns are available in diameters from 2¾ inches to over 12 inches, and lengths from 5 feet to 20
(Continued on page 334)



A Hi-Lo Bay factory layout with bays 20 feet long and 20, 30 or 40 feet wide. The width of the

center bay can be wider than the lo bays to meet property dimensions.

Courtesy, Macomber, Inc.

METAL BUILDING PRODUCTS

Structural Members

Framing
Bridging and Trusses
Columns and Posts
Reinforcing Rod and Wire

Functional Shapes

Gutters, Roof Valleys
Duct Work
Cornices, Edges
Beading

Metal Lath —

Partition Systems

Sheets and Panels

Ceilings
Roofing
Flooring
Siding

Special Doors

Access Doors
Cleanout, Ashpit
Basement Bulkhead
Chute Doors

Fireplace and Chimney Units

Metal Barn Equipment

Ornamental Metal Work

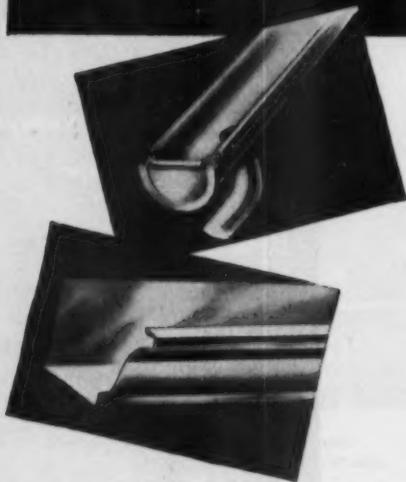
Fences and Gates
Grilles
Brackets
Railings

Louvres and Jalousies

Metal Trim and Mouldings

FOR MORE INFORMATION ON PRODUCTS ADVERTISED AND DESCRIBED IN THIS CHAPTER PLEASE USE ONE OF THE PREPARED INQUIRY POSTCARDS IN THIS ISSUE.

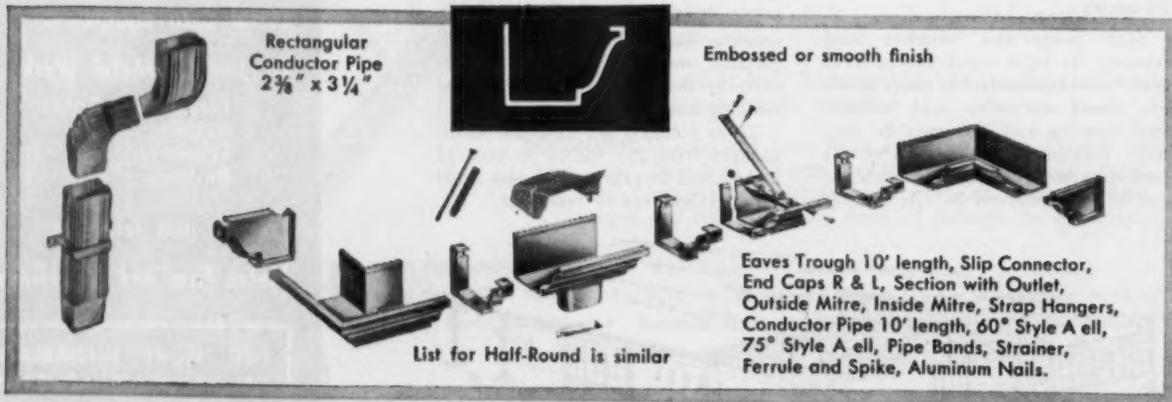
Gives you a selling edge on
competition . . . AT LOWER COST



5" Ogee and Half-Round Gutters
in smooth and stippled finish.
Also 6" Industrial Half-Round.

REYNOLDS *Lifetime* ALUMINUM GUTTERS AND DOWNSPOUTS

That bright edge around the house advertises you *as a modern builder*. And the figures show you're a *smart builder* . . . when you buy rustproof permanence at lowest cost, and save still further by easy slip-joint application without soldering. You do better for yourself and for your customer with the permanent, non-staining beauty of Reynolds *Lifetime* Aluminum Gutters and Downspouts. Complete with all fittings . . . check your supplier. For literature and application details write to Reynolds Metals Company, Building Products Division, 2003 South Ninth Street, Louisville 1, Ky.

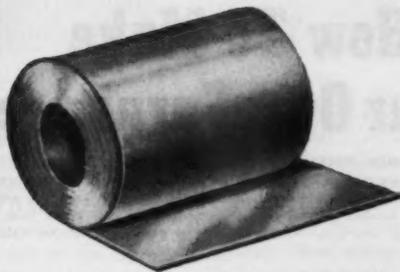


REYNOLDS ALUMINUM

The Rustproof Flashing
That Costs Less, Works
Easiest, Looks Best...



REYNOLDS *Lifetime* ALUMINUM FLASHING



Aluminum costs much less than any other rustproof flashing . . . but that's just the first advantage. It's also easiest to handle, form, cut. It looks best. And it cannot cause stains.

Check your supplier for types of Reynolds *Lifetime* Aluminum Flashing listed below. Once you've used this modern metal, you'll make it standard for all your flashing use. Write for literature. Reynolds Metals Company, Building Products Division, 2003 South Ninth Street, Louisville 1, Kentucky.

IN 50-FOOT ROLLS—14", 20" and 28" wide. .019" thickness (26 U. S. Std. Gauge).

IN FLAT SHEETS—28" wide, 6', 8', 10' and 12' lengths. Also all-purpose display carton of ten 18" x 48" sheets. All in .019" thickness.

No Rust, No Stain, No Deep Setting
or Puttying . . . when you use

REYNOLDS *Lifetime* ALUMINUM NAILS

Roofing nails, wood siding nails, common nails,
aluminum siding nails, cedar shake nails, wall-
board nails, gypsum nails, asbestos shingle nails.

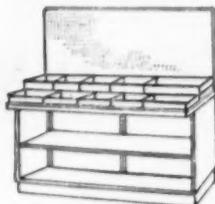


REYNOLDS ALUMINUM



MODERNIZE AT LESS COST IN LESS TIME WITH E-Z SHELVING

To install, simply bolt or screw Standards to wall or Standard to Standard for island displays. Place heel of bracket in groove of Standard. Insert single bolt; slide bracket to desired spot on Standard. Tighten bolt.



3 standards and 6 brackets make this hardware display counter.



6 standards and 12 brackets make this work bench.

CLAMP BITES INTO STANDARD — LOCKS BRACKET & STANDARD LIKE A VISE



HUNDREDS OF USES IN STORES, FACTORIES, GARAGES, HOMES, ETC.

"E-Z" Brackets and Standards are strong enough to carry the heaviest merchandise for hardware, building supply stores and lumber yard display rooms; or wall shelving, counters, island, table, and other type displays.

In addition to providing low cost, modern store fixtures for tools, paints and hardware, there is a quick sale and liberal profit on "E-Z" Brackets and Standards for Building Supply Stores and Hardware Stores selling to grocery, drug, and other type stores, factories, home builders, etc.

**A BIG SALES PRODUCER FOR
BUILDING SUPPLY STORES**

Write for "E-Z" Catalog pages showing many additional uses, installation plan book, and dealers price list.

Standard Steel Works
Dept. AB-1 NORTH KANSAS CITY, MO.



Coffman "Standardized"
ORNAMENTAL IRON



**Easy to Handle
Easy to Install**

"BIG PROFIT," says N. J. Dealer

"I used to be afraid to handle ornamental iron, so I sent my business to local iron shops. A year ago, I investigated Coffman 'Standardized' ornamental iron. When I discovered how easy it is to stock, the profit I had been missing, I started to include it on the material estimate sheets for our builders and contractors. We all learned that Coffman standardized ornamental iron is easier to install than a door or a window. Now all of us are making profit we previously overlooked! Now all of us are Coffman boosters!"

—R.H.J., Newark, N. J.

If you are not stocking Coffman porch posts or rails, you are missing easy profit! Investigate today! Remember there is a stock size Coffman post or rail to fit any porch or entrance.

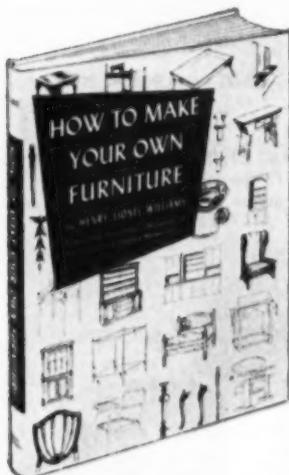
FREE: Write for descriptive catalogue on all Coffman products and complete information on our amazing free air mail blueprint service.

America's Largest Manufacturer
of Ornamental Iron

The **R. G. Coffman Co. Inc.**
© R. G. COFFMAN CO.

Dept. AB-4 ORLANDO, FLORIDA

AMERICAN BUILDER



YOU CAN MAKE THESE PIECES

Seamer, Pipe Box, Hanging Bookshelf, Standing Bookshelf, Cutlery Tray, Spice Box, Lamp Base, Sawbuck, Coffee Table, Lamp Table, Trestle, Dining Table, Iron Leaf Table, Hatch Table, Modern Tray Table, Loose Seat Stool, Five-Board Bench, Joint Stool, Wing Chair, Chaise Lounge, Modern Bedstead, Low Post Bedstead, Tu. Post Bedstead, Welsh Dresser, Closet of Drawers, Framed Desk, Corner Cupboard, Side Chair and Arm Chair.

AND THESE BUILT-INS, TOO

Recessed Bookshelf, Cupboard, Corner Cupboard, Door Flanking Bookcase, Three-Unit Counter and Cupboard, Closet and Dressing Table Above, Corner Seat, Closet—Bunk—Desk, Divan with Drawers, Twin Beds with Bookshelf Desk, Sofa with Bookcase and End Tables, Wall Angle Cabinet, Corner Counter with Drop Table, Bathroom Kitchens or Bar Counter, Double Bunks, Detached or Attached, Cabinet Table for Corner Beds.

10-Day FREE Trial

How To Make Your Own Furniture

WHY PAY HIGH PRICES FOR FURNITURE?

Make it yourself! Easy to follow, step-by-step directions in this big new book show you professional methods and tricks of the trade. Everything you need to know to make attractive, sturdy pieces for every room in the house. Have fun—and save up to 80% of the cost of store-bought articles! Gain a wonderfully relaxing hobby.

HUNDREDS OF PICTURES HELP YOU BUILD

Every job is explained in careful detail. Nearly 400 large, clear drawings show exact working procedure for each step. Professional methods given for setting up shop, choosing tools and equipment, selecting proper varieties of wood, cutting and joining operations, scraping, raising the grain, staining, varnishing, bleaching, toning, antiquing, designing furniture—everything you'll want to know.

This interesting, heavily-illustrated book has nearly two hundred big 8½ x 11 inch pages. It costs only \$3.95. You'll save five to ten times this amount on the first piece of furniture you make!

MAIL TODAY

Simmons-Boardman Books, Dept. AB453
30 Church St., New York 7, N. Y.

Please send me for a FREE working trial a copy of HOW TO MAKE YOUR OWN FURNITURE. If after 10 days I am not completely delighted, I will return the book and owe nothing. Or, I will keep the book and remit \$3.95 plus a few cents for postage and handling in full payment.

Name

Street

City, State

SAVE MONEY! Send \$3.95 with your order and we pay postage and handling. Same return privilege guaranteed. Your money refunded if not satisfied.

**Which driveway is one year old...
Which one is five years old?**



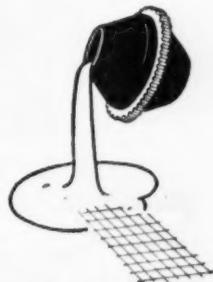
BOTH driveways are located in the same city, and subject to the same climate conditions. You would expect that the cracked and broken driveway had been built five years ago, and that the one with unbroken paving had been built recently. Actually the reverse is true. The one on the left was constructed five years ago *with American Welded Wire Fabric* reinforcement; the one on the right was built a year ago *without* reinforcement.

Here is dramatic proof in pictures of the value of welded wire fabric. In driveways, foundations, sidewalks, terraces—in any concrete construction which goes into building a house—the proportionately small cost of American Welded Wire Fabric reinforcement pays off big dividends in *long-lasting* service and good looks. American Welded Wire Fabric's small, evenly-spaced steel members bind foundations, walls and floors into a solid unit . . . eliminate the common causes of cracked plaster,

warped floors, sagging baseboards and other damages which detract from the dollar value of a home.

Now, more than ever, prospective home-buyers are demanding real value for their money. That's why the use of American Welded Wire Fabric can do much to assure quicker sales and satisfied buyers. It is easily handled, quickly laid. You can get U·S·S American Welded Wire Fabric in every locality from jobbers' and dealers' stocks.

If you'd like to receive illustrated folders, just drop a line to American Steel & Wire Division, Room 842, Rockefeller Building, Cleveland 13, Ohio.



AMERICAN STEEL & WIRE DIVISION, UNITED STATES STEEL CORPORATION, GENERAL OFFICES: CLEVELAND, OHIO
COLUMBIA-GENEVA STEEL DIVISION, SAN FRANCISCO, PACIFIC COAST DISTRIBUTORS
TENNESSEE COAL & IRON DIVISION, FAIRFIELD, ALA., SOUTHERN DISTRIBUTORS
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

EVERY TYPE OF REINFORCED CONCRETE CONSTRUCTION NEEDS

U·S·S AMERICAN WELDED WIRE FABRIC

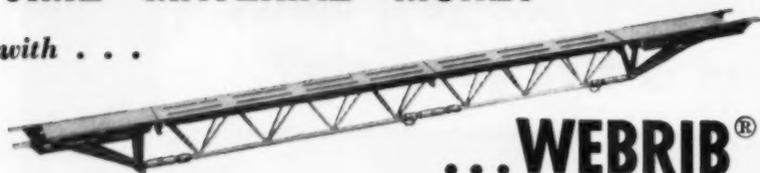
UNITED STATES STEEL



You will save

TIME • MATERIAL • MONEY

with . . .



...WEBRIB® HICO* SHORING GIRDERS

A Versatile Support for Concrete Forms

Adjustable. Turnbuckles provide convenient method of cambering to correct for deflection before or after concrete is poured. Special connections provide large curvature for arch centering.

Ease of Handling. Webrib HICO girders weigh only 25 lbs. per running yard; one man can easily handle one section. Two men can erect or dismantle shoring covering one thousand square feet in less than 40 minutes.

Clear Working Area. On spans up to 27 ft., there is no need for cranes or jacks. All weight of the newly-poured concrete is carried by the beams and walls, with no load on newly-laid floors below.

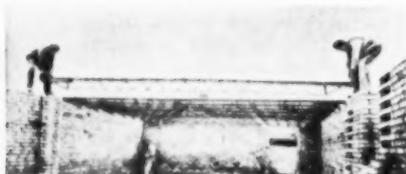
Durability. Webrib HICO girders have been re-used hundreds of times with no appreciable sign of wear.

An illustrated brochure showing Webrib HICO girders adapted to various types of concrete forms is available upon request.

Franchises available to qualified distributors

Patents Pending

*Trademark



Note ease of handling Webrib HICO Girders



Intermediate section 24"



Intermediate Section 37"



Intermediate Section 49"

Webrib Steel Corp. Dept. AB-1
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New York 5, N. Y.

Please rush further information regarding Webrib HICO girders.

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 Distributor

Name

Address

City State

WEBRIB STEEL CORP.

120 BROADWAY
NEW YORK 5, N. Y.

(Continued from page 329)

feet. Fitting in with modern demand for maximum usable floor area, these columns usually require from 1/6 to 1/8 the space that "H" column boxed pillars would need. They may frequently be concealed in the thickness of walls or partitions for a further gain in space saved.

Reinforcing Rod and Wire

Reinforcing rod and wire mesh play an important part in concrete slab construction. Most prefabricated concrete slabs and joists embody some form of reinforcing rod. Load-bearing walls of combined brick and concrete construction usually contain rods also, and site-fabricated concrete slabs for floors, as well as for driveways and walks, usually contain wire mesh fabric of some kind. Other kinds of wire mesh are used for reinforcing concrete siding and for reinforcing the mortar used in tying brick veneer to sheathing.

Steel rod is also used to anchor ends of joists to concrete or masonry supports. When they rest on steel supports, welding is preferable. Steel strap functions similarly in holding up pipe, conduit, and ductwork in many locations throughout the modern building.

FUNCTIONAL SHAPES

Metals commonly used in a wide range of functional shapes and designs include aluminum, steel, galvanized sheet metal, stainless steel, bronze, nickel-silver alloys, brass, and copper in various qualities. Some shapes are made by forming sheets into the desired shape; others are extrusions of heated metal through dies or molds to produce bars with the desired shape in uniform cross-section the full length of the stock.

GUTTERS-ROOF VALLEYS

Stainless steel, copper, aluminum, and ordinary galvanized sheet metal are all used to provide roof drainage. Copper has for years demonstrated its long-lasting qualities, and stainless steel and aluminum are not far behind. Trough design for strength is important. Pipes and elbows should have tight seams, either double-locked or welded. Styles of trough and pipe may be either round or box-type.

Advocates of stainless steel stress its high strength-weight ratio which makes possible use of longer sections and easier installation, with fewer joints and hangers.

(Continued on page 343)

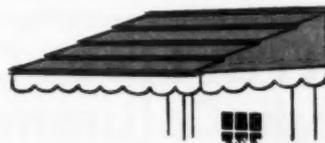
ADDS *Beauty* AND VALUE TO NEW AND OLD HOMES



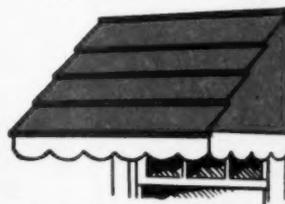
WESTWIND CANOPY — 50" wide, 32" deep, 13" high. With hanging plate, drain channel, hardware and instructions. Colors: green and white, red and white, blue and white. Shipped knocked down. Shipping weight 16 pounds.



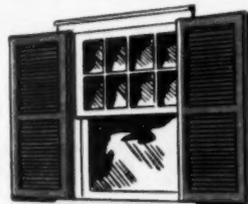
SLANT CANOPY — 48" wide, 32" deep, 9" high. With hanging flashing strip, brackets, hardware, and instructions. Colors: green and white, red and white, and blue and white. Packaged pre-assembled. Shipping weight 24½ pounds.



WEATHER-GUARD CANOPY — 13" high, 32" deep, two widths 48" and 54". With hardware and instructions for easy installation. Colors: green, red, or blue, with white scallops. Shipping weight 48" — 9½ pounds. 54" — 10 pounds.



WEATHER-GUARD AWNING — Drop 25½", projection 24", width 36", 42", and 48". With hardware and instructions. Colors are solid green, red or blue with white scallops. Shipping weight 36" — 7½ pounds.



FULL LOUVRE SHUTTERS IN THESE STANDARD SIZES
 14" x 39½" 14" x 43½" 14" x 47½" 14" x 51½"
 14" x 55½" 14" x 59½" 14" x 63½" 17" x 51½"
 17" x 55½" 17" x 59½" 17" x 63½" 17" x 67½"
 17" x 79½" 20" x 53½" 20" x 59½" 20" x 67½"
 In natural aluminum, prime coat or baked enamel.

FAWSCO ALUMINUM AWNINGS, CANOPIES, SHUTTERS

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Builders and contractors everywhere are raving about these economical all-aluminum FAWSCO home beautifiers that are installed so easily and quickly. All aluminum, with a baked enamel finish, FAWSCO canopies are unconditionally guaranteed . . . never rust . . . never rot. They give all-weather protection summer and winter. Select FAWSCO canopies from a variety of styles in any one of these colors: Green, Red, Blue, or White. Write for catalog illustrating the canopies, and other FAWSCO building products.

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STEEL JOIST DESIGN TABLES

TABLE OF STEEL JOIST DIMENSIONS

Steel Joist Type No. *	Main Dimensions		Web Diameter "d"	Top Chord Section	Top Chord — 2 Angles			Bot. Chord — 2 Angles			Weight Pounds Per Foot
	Depth "D"	Panel Max. "K"			Size In.	Area Sq. In.	"v" In.	Size In.	Area Sq. In.	"v" In.	
SJ 81	8"	1' 4"	1/2"	1	1 x 1 x 11	.410	300	1 x 1 x 11	.410	.300	3.80
82	8"	1' 4"	1/2"	2	1 x 1 x 13	.485	.300	1 x 1 x 11	.410	.300	4.15
102	10"	1' 4"	1/2"	2	1 x 1 x 13	.485	.300	1 x 1 x 11	.410	.300	4.20
103	10"	1' 6"	1/2"	3	1 x 1 x 16	.593	.310	1 x 1 x 13	.485	.300	4.85
104	10"	1' 6"	1/2"	4	1 1/4 x 1 1/4 x 15	.716	.370	1 x 1 x 16	.593	.310	5.90
123	12"	1' 8"	1/2"	3	1 x 1 x 16	.593	.310	1 x 1 x 13	.485	.300	5.10
124	12"	1' 8"	1/2"	4	1 1/4 x 1 1/4 x 15	.716	.370	1 x 1 x 16	.593	.310	6.10
125	12"	1' 8"	1/2"	5	1 1/4 x 1 1/4 x 19	.867	.385	1 1/4 x 1 1/4 x 15	.716	.370	7.05
126	12"	1' 8"	1/2"	6	1 1/4 x 1 1/4 x 23	1.040	.395	1 1/4 x 1 1/4 x 19	.867	.385	8.05
145	14"	1' 10"	1/2"	5	1 1/4 x 1 1/4 x 19	.867	.385	1 1/4 x 1 1/4 x 14	.660	.370	7.20
146	14"	1' 10"	1/2"	6	1 1/4 x 1 1/4 x 23	1.040	.395	1 1/4 x 1 1/4 x 19	.867	.385	8.50
147	14"	2' 0"	1/2"	7	1 1/4 x 1 1/4 x 28	1.243	.410	1 1/4 x 1 1/4 x 23	1.040	.395	9.65
166	16"	2' 0"	1/2"	6	1 1/4 x 1 1/4 x 23	1.040	.395	1 1/4 x 1 1/4 x 19	.867	.385	8.60
167	16"	2' 0"	1/2"	7	1 1/4 x 1 1/4 x 28	1.243	.410	1 1/4 x 1 1/4 x 23	1.040	.395	10.05

*Steel Joist Type Marking indicates depth of joist and top chord section.

Courtesy Laclede Steel Co.

TABLE OF STEEL JOIST DESIGN PROPERTIES

Steel Joist Type No.	Design Properties S. J. I. Standards			Maximum Span Developing Full Shear	Steel Joist Type No.	Design Properties S. J. I. Standards			Maximum Span Developing Full Shear
	Resisting Moment in Inch Pounds	Maximum End Reaction Pounds	Maximum End Reaction Pounds			Resisting Moment in Inch Pounds	Maximum End Reaction Pounds	Maximum End Reaction Pounds	
SJ 81	29,500	1,600	6' 2"	SJ 125	142,000	2,500	18' 11"		
82	52,500	1,900	9' 1"	126	175,000	2,700	21' 7"		
102	63,000	1,900	11' 0"	145	156,000	2,900	17' 11"		
103	82,000	1,950	14' 0"	146	205,000	3,100	22' 0"		
104	100,000	2,200	15' 0"	147	245,000	3,400	24' 1"		
123	92,000	2,200	13' 11"	166	232,000	3,200	21' 2"		
124	115,000	2,300	16' 8"	167	281,000	3,600	26' 0"		

Span determines design loads for spans shorter than "Maximum Span Developing Full Shear"; bending governs for longer spans.

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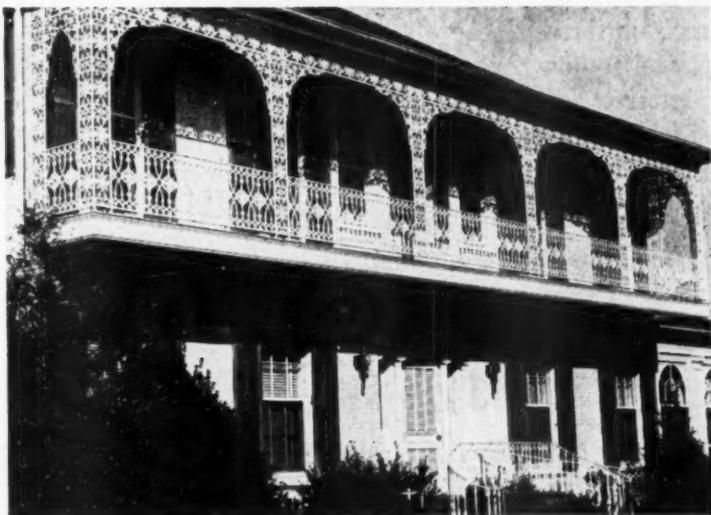
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KEYBEAD

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Plasterers, lathers, architects, contractors, builders and dealers will find Keybead an easy-to-use, easy-to-handle plastering help. It is recommended for use where strong, economical, "true" plaster corners are a requisite on the job.

Quick and easy to lath, Keybead combines open-mesh reinforcing with a precision-formed bead. The open-mesh design of Keybead permits plaster to flow through the steel wires and give a generous bond of plaster to lath—a solid plaster corner results. This thorough steel wire embedment combined with the true-formed bead makes strongly reinforced, crack-resistant plaster corners. And, to prevent rust streaks, Keybead is galvanized, too.

Keybead is made in 7', 8', 9', 10' and 12' lengths; 5" width providing 2½" wings, 18 gauge 1" mesh, packed in convenient cartons. Write for further information and prices.



*by the makers of KEYMESH and KEYCORNER
galvanized plaster reinforcing*

KEYSTONE STEEL & WIRE COMPANY

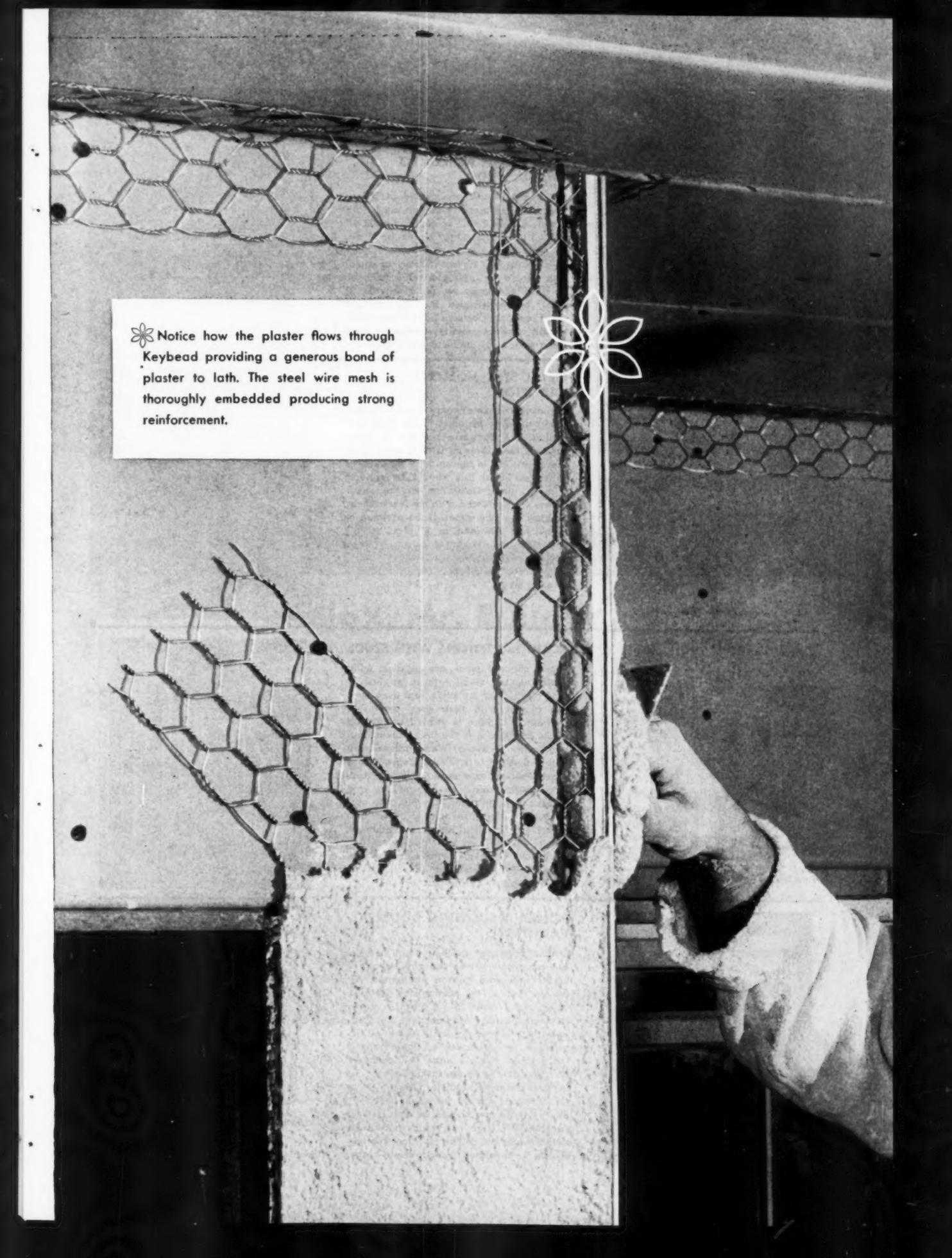
Peoria 7, Illinois

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FILES
2d 11a 3d
Ke Ke Kg



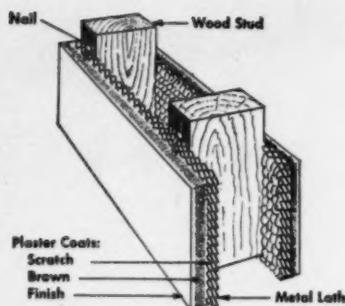
✿ Notice how the plaster flows through Keybead providing a generous bond of plaster to lath. The steel wire mesh is thoroughly embedded producing strong reinforcement.



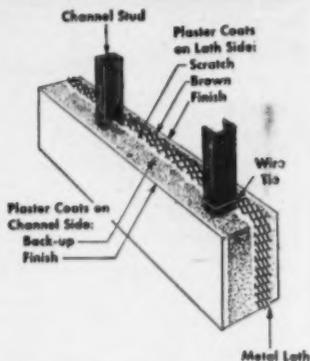
metal lath

METAL LATH NAILED TO WOOD STUDS

If the wood studs are spaced at 16" or less, diamond mesh or flat rib metal lath can be fastened with 4d common nails, 1" roofing nails with 7/16" heads, or 1" no. 14 gage wire staples. For studs spaced 24" apart, 3/8" rib metal lath or sheet lath should be attached with nails or staples 3/8" longer so as to provide at least 3/4" penetration into the vertical wood supports. Common nails, when used, should be bent over to engage at least three strands of diamond mesh lath.



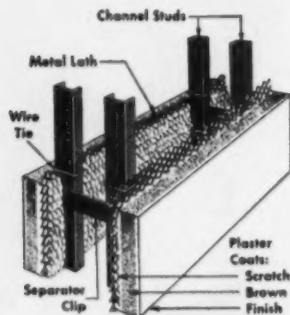
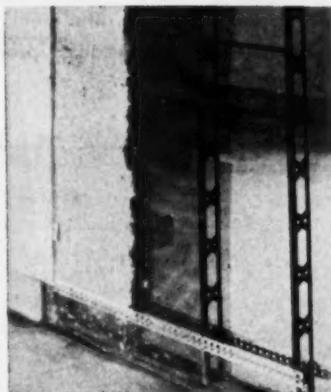
Metal Lath and Plaster on Wood Studs



Metal Lath and Plaster Solid Partition with Channel Studs

METAL STUD HOLLOW PARTITIONS

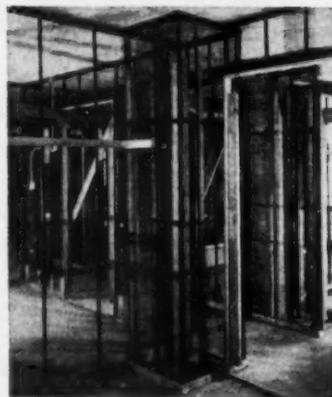
Prefabricated metal runners (often called track) are first fastened to the floor and ceiling. The studs are fastened to these runners, then 18 gage wire is used to tie the metal lath to the studs at 6" vertical spacings. Metal lath should be applied with the long dimension of the sheet across the studs and with the lower sheet lapping over the upper. If the partition is more than 10' long or 9' high, a 3/4" stiffening channel should be placed horizontally in the hollow space every 4' to 6' of partition height and wire-tied rigidly to each stud.



Metal Lath and Plaster Hollow Partition with Channel Studs

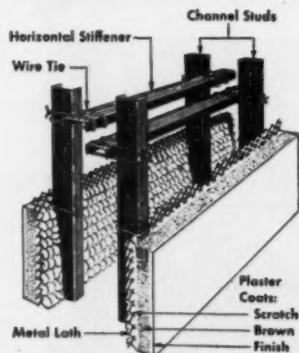
SOLID PARTITIONS WITH STUDS

When channel studs are used in solid partitions, the metal lath is applied to only one side of the studs, and the sheets are placed with their long dimension horizontal. Lathing is started at the top of the partition with the lower sheets lapping over the upper. Wood grounds are tied to the lath or studs with wire before plastering and are used to fasten cabinets, chair rails, wood paneling and fixtures to the partition. Conduit, pipe and backs of outlet boxes should be covered with a strip of metal lath and a minimum plaster thickness of 1/2". A complete line of shallow electrical switches and outlets is manufactured for use in solid metal lath and plaster partitions.

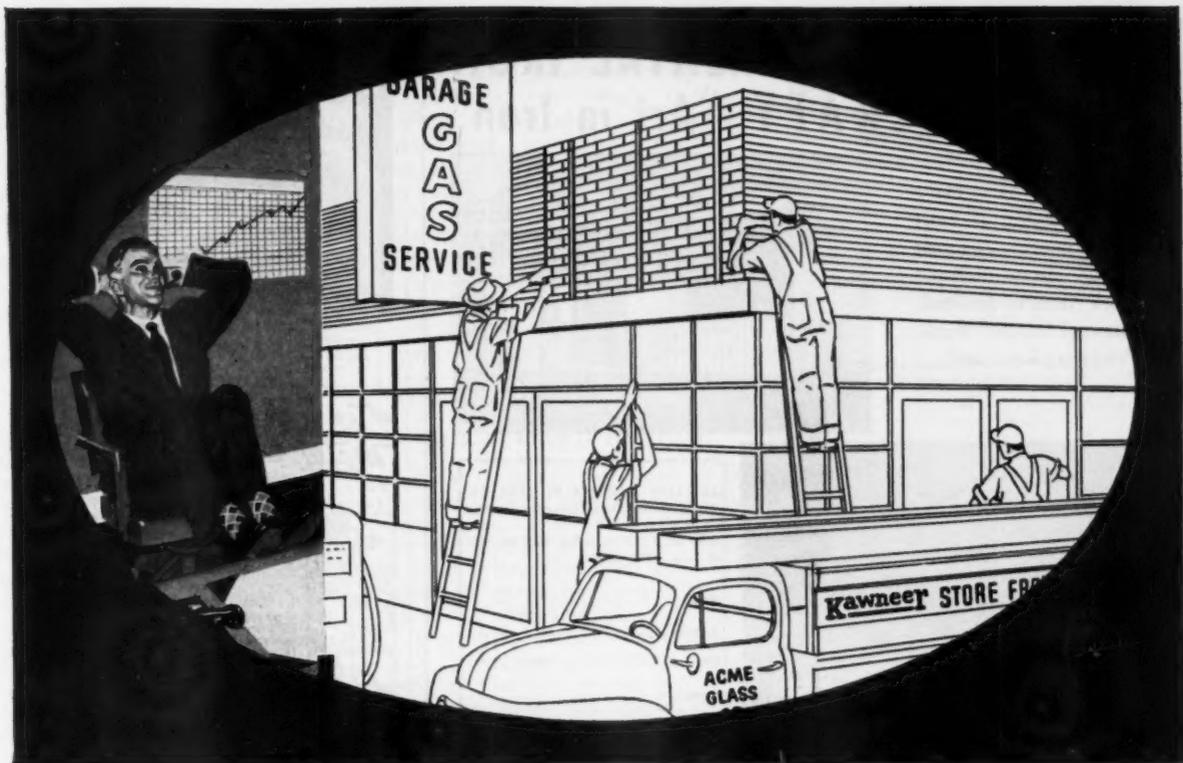


SOUND INSULATING DOUBLE PARTITIONS

Double partitions, as their name implies, are composed of two separate layers of metal lath and plaster supported by double rows of 3/4" channels or prefabricated metal studs. No spacers or cross-ties which in any way connect the channels or studs on opposite sides of the partition are permissible. Each half of the partition should have 3/4" channels tied horizontally to the inside face of the vertical channels or studs. These horizontal stiffeners should be used every 4', and at least two should be provided in partitions 9 1/2' high, or over. For maximum sound insulation, ceiling and floor runners should be insulated from concrete slabs.



Metal Lath and Plaster Sound Insulating Double Partition



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Another Kawneer Service Station example



BEFORE; left.
AFTER; above. Typical Kawneer Service Station modernization.



Kawneer Garage-Dealer application.

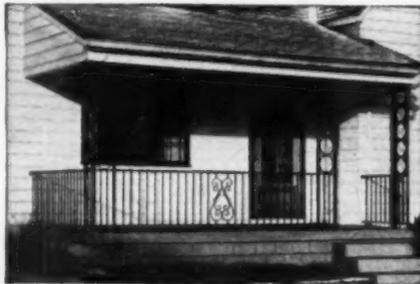


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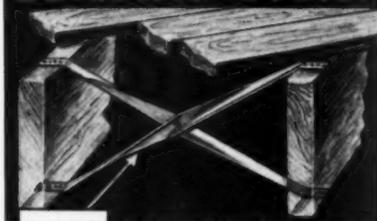
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It distributes a concentrated load to adjacent joists to prevent deflection of beams by the practical application of the principle of tension... it is flexible enough so that joists off required centers can be fastened just as securely as those precisely placed... provision for nailing meets requirements of all building codes... does not interfere with laying of subflooring... cannot separate from joists when under load or as lumber shrinks.

Chan-L-Cros is available in sizes for 8, 10, and 12 inch joists... suitably finished to resist rust. It is also recommended for construction of arched ceilings.

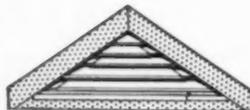
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CINCINNATI IRON FENCE CO.

INCORPORATED

AMERICAN BUILDER

(Continued from page 334)

Ducts and Pipe

Ductwork, pipe, conduit, and tubing are considered more in detail in the sections on heating, plumbing, and wiring the house. Nearly all types of structural metals are involved at some point, and manufacturers are constantly working with heating, plumbing, and electrical contractors to develop better products to serve these needs.

Cornices, Edgings

Architectural extruded metals may be bronze, brass, aluminum, nickel-silver alloy, copper, or other special alloys. As extrusions are wrought under pressure, they are usually free from blowholes and other defects common to castings, and have a high tensile strength. Extruded shapes can thus be used with thinner cross-sections, and finished with less labor.

Primarily, such shapes include opening frames, entablatures, cornices, bars, flutings, pilasters, caps, counter screens, hand rails, edgings and beadings of all kinds. Some manufacturers stock standard shapes for these purposes, and several will produce extrusions to the design of the architect on order.

Proportioning Gutters, Leaders and Outlets

Two main factors govern roofing drainage problems: (1) The greatest amount of rain which the roof will be required to take care of at a given time. (2) The actual area of the roof that is being drained.

In residential construction where an infrequent overflowing of the drainage system will not seriously damage the building, a smaller rain intensity value may be used in determining the size of downspouts and gutters. In larger stone buildings it is best to use the greatest recorded rain intensity in figuring, since an overflow may cause serious damage.

The general rule to follow is 1' square downspout area for every 100 square feet to be drained.

Types of Metal Lath and Accessories

Metal lath is of three basic types: diamond mesh (also called flat-expanded), rib, and sheet. Diamond mesh is metal lath slit and expanded from metal sheets into such a form that there is no rib in the lath. Rib metal lath has either a separately attached stiffening member or an unexpanded portion which leaves the plane of the lath at an angle and returns at the same angle, imparting

a certain rigidity. Sheet lath is simply slit or punched from metal sheets, usually galvanized.

Accessories used include a wide variety of small nose and bull-nose corner beads, base screed, concealed picture molding, and metal casing of various sorts. Special channels, hangers, and metal studs are properly considered as framing members rather than lathing accessories.

Through the years, many types of metal lath and plaster partitions have been developed to meet specific requirements. They can be described under three basic groups—hollow, solid and double partitions.

SHEETS AND PANELS

Metal sheets and panels for use in flooring, ceiling, roofing, and siding applications, are considered at length in other sections of this issue. There are, however, a number of special types of sheets and panels which should be mentioned.

One manufacturer, for example, has devised an interlocking panel which forms floor, ceiling, and joists in one operation, also allowing space for large pipes and ducts, and providing convection surface to coordinate with radiant heating coils. The upper surface is prime painted, ready for flooring, and the lower surface

may be left exposed for beam ceiling or may be covered with wire lath and plaster as desired. The same panels may be used vertically for partitions.

A number of manufacturers produce steel deck plates, some of which are designed to use either in forming floors or as steel forms for laying concrete floor slab. Some are also built with special acoustical properties. These all-steel panels and members have the advantages of low initial cost, flexibility in handling, ease of installation, and strength.

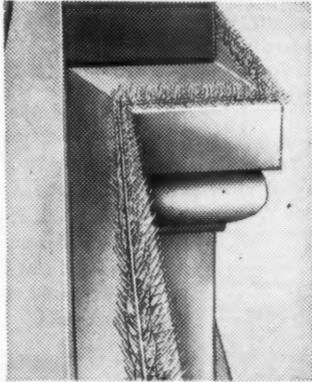
Table I - Area of Standard Size Leaders

Type	Area in Sq. In.	Nominal Leader Size
Plain Round	7.07	3"
	12.57	4"
	19.63	5"
	28.27	6"
Corrugated Round	5.94	3"
	11.04	4"
	17.72	5"
	25.97	6"
Square Corrugated	3.80	2"
	7.73	3"
	11.70	4"
	18.75	5"
Plain Rectangular	3.94	1 1/2" x 2 1/4"
	6.00	2" x 3"
	8.00	2" x 4"
	12.00	3" x 4"
	20.00	4" x 5"
	24.00	4" x 6"

Courtesy Chase Brass & Copper Co.

Use this chart in selecting the proper size and shape of leaders in gutter and downspout installation.

Nixalite
"No Alighting"
ENDS BIRD NUISANCE



BEAUTIFUL CLEAN BUILDING

Nixalite is so inconspicuous that the photographs reproduced had to be retouched to show where the Nixalite is installed.

Write for illustrated "Know How"

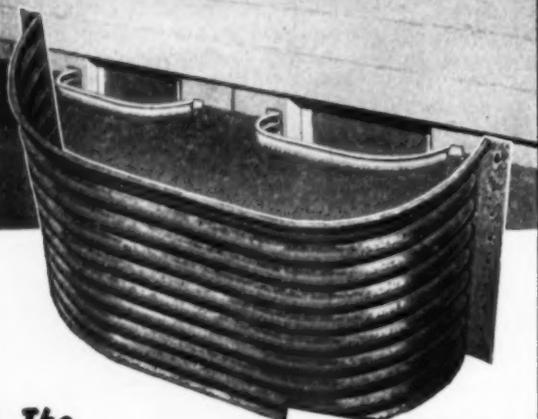


Manufactured by
Nixalite Company of America
115-119 W. 3rd St. Davenport, Iowa, U.S.A.

IMPERIAL

Lux-Right

HEAVY, CORRUGATED
STEEL AREAWALLS



The Nation's Best

A BUILDERS' ITEM that's a "must" wherever a house with a basement is built. Our heavy, galvanized corrugated steel window well wall has set the pace in manufacture and betterment of product since first offered in 1938. The ONLY steel areawall COMPLETELY Hot-dipped galvanized AFTER forming. Will outlast the house.

Two types: The Streamlined Straight, especially advantageous where space adjoining the house is restricted. Round type, for installation wherever projection into yard is not a factor. Both types in complete range of sizes to fit all standard window openings.

Each unit (one-piece, no attachments) has Hug-Tite Flanges for tight fit to foundation wall. Top edge rolled on all sizes, important for strength and stability.

We PAY
the FREIGHT
Anywhere
(12 units or more)

EASY TO INSTALL

SPEED of installation saves time, labor, money. No painting needed. You install each unit just as delivered. Never any cracking or crumbling.



Free illustrated folder shows sizes, proper way to install, and much other helpful information. See your distributor, building materials dealer, or write us direct.

AB3

SAINT PAUL CORRUGATING CO.

Expert Sheet Metal Manufacturers for 68 Years

SOUTH END WABASHA BRIDGE • SAINT PAUL 1, MINN.

Save Time and Boost Profits with Sink-Lok



U.S. PAT. NO. 2440741

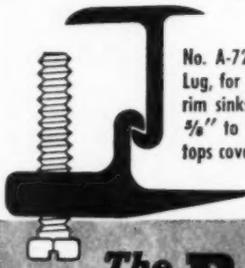
FASTER - EASIER - FOOLPROOF

Here's the sink frame that really clamps coverings into place to stay—seals out moisture—hugs the sink with a tight, permanent, fit. Coverings can't work loose or curl up!

Easier to install, too! Sink-Lok frames overlap edges of the covering a full quarter-inch. No close scribing, cutting or fitting of materials. No special tools needed. No mortising or rabbeting of the sink-well hole—just cut a straight-walled opening for the sink. The frame anchors in place from underneath the sink top—supports the sink itself in addition to sealing the joint between the covering and the sink. No bolts or screws through the counter top.

Sink-Lok Frames are available for flat-rim sinks of any size, with either round or square corners, for installation on wood or plywood sink-cabinet tops from 5/8" to 1" thick, covered with any material up to 1/8-inch thick. Also available for most vitreous china sinks.

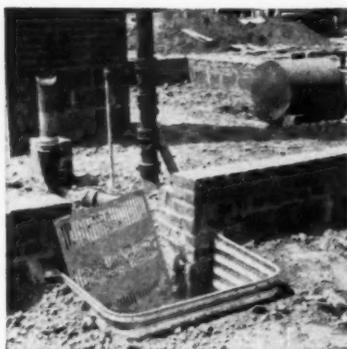
Write for complete information.



No. A-725 Frame and Lug, for standard flat-rim sinks installed on 5/8" to 3/4" plywood tops covered with ma-

terial up to 1/8". Also available in Model No. B-725 for 7/8" to 1" plywood tops, and in Model No. C-726 for vitreous china sinks.

The **B & T** Metals Co.
Columbus 16, Ohio



STEEL access panel to provide access to drainage pipe in basementless building. Installed with metal wall around area of panel

SPECIAL DOORS

While most kinds of doors are discussed in full detail in the section on windows and doors, certain special purpose doors are normally manufactured as complete "package" units made of metal.

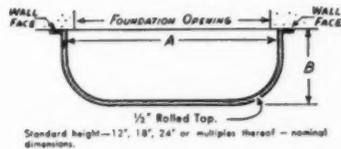
Access Doors

Access doors include roof hatches, ceiling hatches, floor hatches, and scuttles. Made of steel or aluminum, roof scuttles or hatches provide

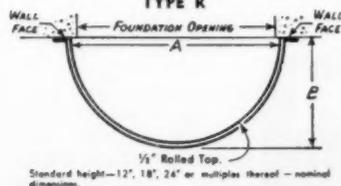


CORRUGATED window well. Several manufacturers provide round, oblong, and square types

TYPE S



TYPE R



Courtesy Brainard Steel Division

easily-installed, trouble-free access to the roof of the building. The only requirement is that a roof opening of the proper size be provided. The hatch is lined up over this opening and nailed or bolted to the rough roofing through holes provided in the flanges of the unit. They are watertight and fireproof and can be set up to lock from either inside or outside.

Heavy-duty compensating spring hinges are used in most types, and insulation is also built into the unit. Floor and ceiling hatches are made so that the door fits flush with floor or ceiling. Floor hatches in some instances have either smooth or patterned surface to prevent slipping.

Basement and Bulkhead Doors

Doors for use with either frame or masonry construction are available as package units which are attractive, designed for long life, and easy to install. Where the unit joins either frame or masonry, special flanges are provided to make a secure seal against rain and dirt.

Ashpit and Cleanout Doors

Installed in the bottom of chimney or stack for easy removal of soot and

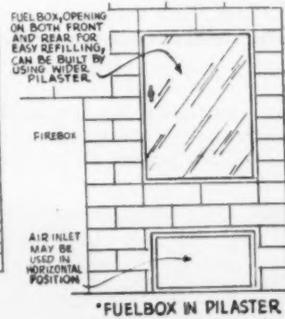
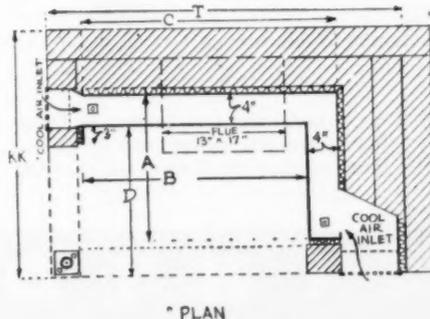
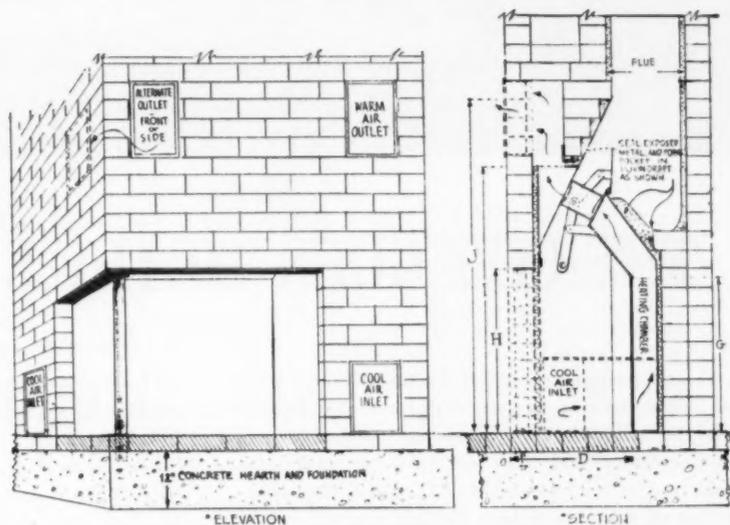
ashes, ashpit and cleanout doors in some instances are cast iron, but in most modern types are made of steel with welded parts and heavy-duty hinges to give long wear.

FIREPLACE UNITS

Old-fashioned fireplaces wasted heat, smoked up rooms, and caused discomfort in various ways. For the builder who has a fireplace included in his plans, there are several fireplace heating units which are designed by engineers to provide added comfort and efficient fuel consumption.

While not recommended as a substitute for heating plants in northern climates, efficient fireplaces can save fuel bills by providing heat during many cool weather days. Units which circulate the heat to every part of the room or house through ducts are available in designs that permit their use with a wide range of ornamental fireplace types.

Firebox, throat, and flues are designed for correct operation, and dampers, down-draft shelves, and smoke domes are all built into correctly fabricated units.



Above detail plates show installation and design of corner fireplace which will heat all of small house with proper arrangement of warm air ducts.

Courtesy Superior Fireplace Co.



THE CITY GOES TO THE SUBURBS...

... and particularly the department stores built of reinforced concrete. In addition to the beauty and flexibility of this type of construction, owners and operators find that fire insurance premiums and repairs are less and that the insulating properties of concrete reduce heating and air conditioning costs.

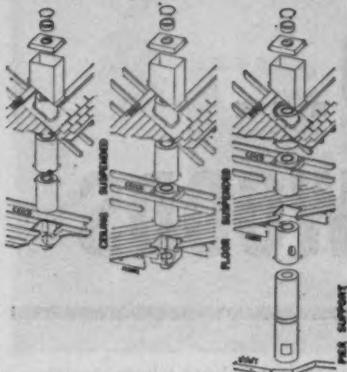
The trend in concrete construction is to reinforce

with welded wire fabric. For only fabric provides uniformly spaced steel members for proper load distribution and added strength. But be sure to specify your reinforcing fabric with the same care as you order your concrete mix. Specify Clinton Welded Wire Fabric. It meets all A.S.T.M. requirements and is available in proper sizes and weights for all reinforcing needs.

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 THE COLORADO FUEL AND IRON CORPORATION, Denver
 WICKWIRE SPENCER STEEL DIVISION, New York 22, N. Y.

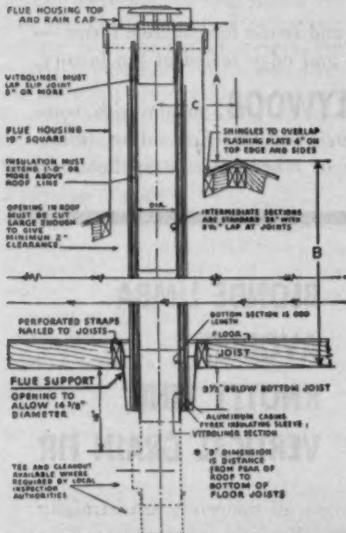
CLINTON
 CFI

PREFABRICATED CHIMNEY units can be used in place of lined brick construction. They can be suspended from the ceiling, the floor, or installed with pier support



Courtesy Van-Packer Corporation
To install complete chimney: (1) Nail chimney support in place. (2) Set each section and cement with acid-proof cement provided. (3) Nail flashing to roof, slide housing over sections, and cement rain cap in place.

TYPE "L" FLUE



Courtesy Condensation Engineering Corp.
Detail plate showing installation data and necessary specifications for typical prefabricated metal flue.

SHUTTERS AND LOUVRES, JALOUSIES

Modern door construction frequently utilizes jalousies or louvres, the primary purpose of which is to provide adequate ventilation in rooms, corridors, and closets. While jalousies or louvres are available with wood or glass slats, and one manufacturer at least is making glass jalousie-style windows, the greatest demand is for the metal jalousie unit for installation into doors. Made of furniture steel, aluminum, or other metals, and of almost any size, these units are shipped complete and ready for installation from several manufacturers.

ORNAMENTAL METAL WORK

Ornamental metal work includes ornamental castings, wrought iron pieces, gates, canopies, fences, railings, brackets, grilles, window bars, hand rails, trellises, lamps, ornamental stairs and doors, and posts. Perhaps the most common material is cast iron, although many pieces are now made of aluminum and bronze.



Courtesy J. W. Fiske Iron Works

Ornamental iron adds distinctive note to entrance of this classic Southern home.



Courtesy R. G. Coffman Co., Inc.

Install railing in three simple steps: (1) Build concrete forms to fit stock sizes of railing. (2) Set rail in forms, plumb and level. (3) Pour concrete.

THRU-the-WALL



VENTILATOR

Courtesy Air Control Products, Inc.

Ventilator installation for use with glass block panels or fixed-in-place glazing, provides interior register to control ventilation.



THE CITY GOES TO THE SUBURBS...
with



As in suburban branch department stores and all types of commercial and residential concrete construction, Clinton Welded Wire Fabric is a favorite with builders everywhere. Here's why:

Simple to Form and Shape. Clinton Welded Wire Fabric possesses the proper flexibility to make it easy to bend, form or shape right on the job. It is sufficiently rigid to hold its shape after forming.

Easy to Handle and Place. Both the heavy and light gauges of Clinton Welded Wire Fabric flatten quickly and easily from the roll.

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	San Leandro, Cal. 720 Williams St.



Courtesy Celotex Corp.

ALL types of flooring materials fall under one of three general categories: wood floors, resilient floors, or non-resilient floors. The majority of wood floors are made from woods botanically classed as hardwoods. Several excellent flooring woods fall into the classification of softwoods, but are from the harder species. For reference purposes, composition flooring materials are considered resilient flooring while those floors composed of concrete and stone products make up the non-resilient category.

Flooring Types

Strip flooring consists of pieces, available in varying thicknesses, cut in narrow strips and of uniform widths. Pieces are tongued and grooved at the factory.

Parquet or pattern flooring consists of equal short lengths, generally governed by multiples of the width, which are installed in geometric patterns such as herringbone, squares,

and rectangles. A parquet flooring is also available which consists of factory assembled blocks; sometimes referred to as block flooring.

Plank flooring consists of boards milled in random widths to produce the effect of early American heavy plank floors. Plank flooring is available with or without beveled edges; beveled edges being used when a more authentic early hand-hewn treatment is wanted. The Colonial wood peg fastening effect is simulated by wood plugs glued in holes on top of the counter sunk screws which fasten the planks.

Pre-Finished Hardwood Flooring

Some manufacturers produce flooring which is completely pre-finished at the factory. It is ready for use immediately after being laid. All species and types of hardwood flooring may not be readily available in this form; however, a producer equipped to



National Oak Flooring Manufacturers' Assn.

Subflooring is omitted in this method of installing strip oak floors in basementless homes built on concrete slabs. Flooring is nailed directly to screeds imbedded in mastic atop slab

INTERIOR WALL, CEILING, FLOORING & UTILITY MATERIALS

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Resilient Floors

Non-Resilient Floors

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*America's finest plastic wall tile
to promote, to install . . . for profit!*

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Available in 30 rainbow colors for perfect flexibility of design and harmony. TILEMASTER colors are molded all the way through! 16 molded tile pieces permit "all-tile beauty" — eliminate any need for substitutions or bent tiles.

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reasons why

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- 8 Meets (and exceeds) Bureau of Standards Specifications!
- 9 Manufactured by a foremost plastic tile manufacturer!
- 10 Plastic resilience withstands blows or sharp knocks!
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- 13 Accepted and endorsed by architects!
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Leonard Smith, Columbus, Ohio, Tile Contractor.

"We've been using Mosaic Clay Tile for years . . .

. . . won't use a substitute,
says Arden J. Millisor, Columbus, Ohio builder.

"The goodwill of our long list of satisfied customers was built in part by the fine performance of this quality floor and wall material.

"We find that Mosaic Clay Tile is one of the few materials which takes year after year soaking from shower and tub and remains unharmed. That's why we use it in all our bathrooms, from the most moderately priced houses on up.

"Believe me, we had to spend many good dollars for repair and replacement before we used Mosaic Clay Tile exclusively. Now, you couldn't sell us anything else.

"I've used Mosaic Clay Tile in over 500 homes, since 1924. When anyone asks me what I think about tile, I give them one answer—'see our customers, they'll tell you all you want to know.' Here's what one of our home owners has to say about Mosaic Clay Tile . . ."

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helps you SELL the job so it STAYS sold!

All signs point to a year of commercial, small industrial and recreational building. For such jobs, no other floor (and certainly no mere floor covering!) matches the advantages of Northern Hard Maple. When an owner is reminded how much a well-laid Maple floor adds to the structural strength of his building . . . When he's reminded that the beautiful walking and working surface of his Maple floor will probably outlast the building . . . When you point out the extra saving of Second or Second-and-Better

MFMA Northern Hard Maple—the handsome "character" grades—You'll sell many a fine job against any competition. And it'll stay sold!

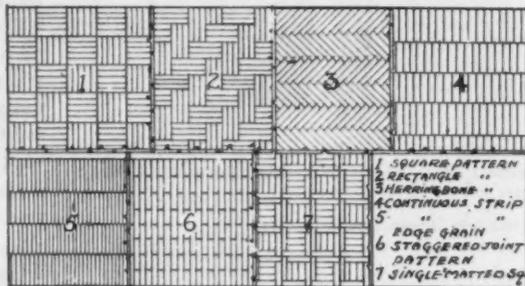
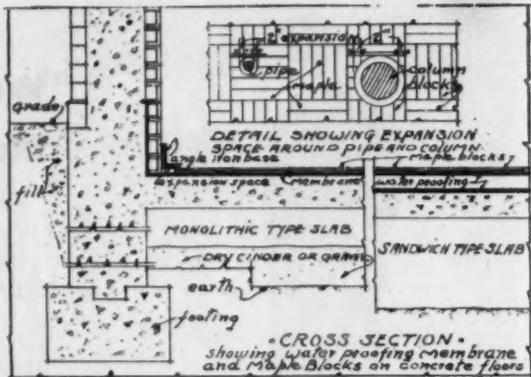


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They'll give you the powerful sales facts about America's finest hardwood flooring—MFMA-graded and warranted Northern Hard Maple.

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BEECH AND BIRCH



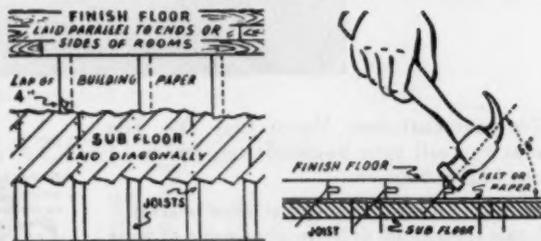
... maple blocks laid in mastic

Suggested details and patterns for maple flooring blocks installed in asphalt mastic. Below: Flooring nails shown in approximately their actual size



Maple Flooring Manufacturers' Assn.

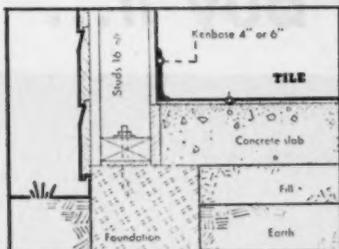
... details for subfloors



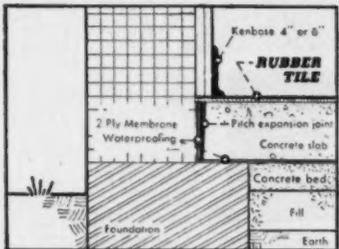
In conventional joist construction sound subflooring beneath finish floor is virtual "Must." Subfloor is ordinarily nailed directly to floor joists. Right: t&g flooring should be blind-nailed—nails driven at about a 50-degree angle where tongue leaves shoulder. Head of each nail is countersunk

AMERICAN BUILDER

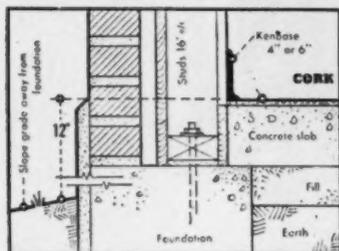
... applications of flooring tile



Asphalt tile installation can be made over any smooth, clean interior surface



Concrete subfloors should be bone dry before installing rubber tile. On new construction, concrete should be pre-tested for moisture



Courtesy Kentile, Inc.

Cork tile can be applied directly over smooth, firm floors of cement, steel, well-seasoned wood, clay tile or other hard surface

make factory finished flooring can usually furnish it in any species and type he ordinarily produces unfinished.

Subfloor Requirements

Hardwood strip flooring should be laid on a soundly constructed subfloor. Subfloor boards should be between six and eight inches wide. Face nail them solidly at every bearing point with two or three 10-penny nails. All butt joints should rest on bearings. Use adequate nailing to avoid squeaky floors. Subfloors laid diagonally afford additional bracing strength for the building. Bracing strength will be further improved if diagonal direction is reversed on alternate floors. Before laying finish flooring, be sure subflooring is dry and clean, with all bits of plaster or other dirt scraped off.

Quicker, easier sales . . .

more satisfied customers . . .

fewer call backs . . .

...that's the beauty of

Higgins Block^{*}

INC.



There's one important feature of Higgins Block that doesn't show in spec sheets . . . and that's the rich, lustrous, sales-producing look of quality!

* SPECIFICATIONS:

- | | |
|--|---|
| 9" x 9" not face hardwood blocks—easy to install | Toxic impregnated—rot-proof, and termite-proof |
| 3-ply cross-grain construction—when properly installed will not warp, buckle, cup or crack | Grooved back anchors into adhesive—quiet and comfortable |
| Selected oak face—ready finished | Can be laid without special preparation on concrete slab—ideal for radiant heat |
| Pressure bonded with marine-type glue—water-proof, climate-proof | Blocks fit flush—without large, visible V-grooves |

Higgins INC. **BONDED HARDWOOD BLOCK FLOORING**
THE WORLD-FAMOUS BOAT BUILDERS 



Use this coupon for free sample block and literature
Higgins, Inc., Dept. A-4 New Orleans, La.
Gentlemen: Please send sample block and literature to:

Firm Name.....
Address.....
City.....State.....Zone.....

When they eye it...they buy it...



BUYERS LIKE THESE ARE ALREADY CASHING IN ON THE DISTINCTIVE RICHNESS THAT WEDGEWOOD ADDS TO DECOR.



A motel in Massachusetts used 14,000 feet of WedgeWood to create interiors of beauty. Customers who see it want to know where they can buy it!



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When Architects see WedgeWood they see IDEAS.

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So see YOUR Georgia-Pacific Representative today.

...WEDGEWOOD

Georgia-Pacific's new low-cost textured plywood with the look of luxury . . . the touch of drama that

SELLS ON SIGHT!

WedgeWood creates new beauty . . . new texture . . . new design . . . for your homes that spells *SELL* in any kind of styling. Excitingly effective in full room treatment . . . dramatic when used occasionally . . . WedgeWood has created new buyer interest, appreciation and *desire* wherever it has been used. With WedgeWood all the elegance and charm of fine wood paneling is yours at low, low cost.

Surround your prospects with the beauty that adds to the market value of your homes.



WedgeWood fits with timeless ease into modern or traditional settings.

WedgeWood puts new "buy appeal" into den or dining room, lounge or living room . . .



GEORGIA—PACIFIC
PLYWOOD COMPANY

Dept. D., 617 North Capitol Way, Olympia, Wash.

OFFICES OR WAREHOUSES IN: Augusta, Baltimore, Birmingham, Boston, Chicago, Cleveland, Columbia, Detroit, Fort Worth, Lancaster, Los Angeles, Louisville, Memphis, Nashville, Newark, New Castle, New Hyde Park, New Orleans, Olympia, Orlando, Philadelphia, Pittsburgh, Providence, Raleigh, Richmond, Salinas, Savannah, Seattle, Spokane, Vineland, Waltham.

KENTILE®

...the Asphalt Tile of

Kentile is subjected to many critical tests to insure top-quality asphalt tile:



This amazing new electronic Color-Eye measures the shade of each Kentile color to protect uniformity.



The wear resistance of Kentile is controlled by frequent tests under the artificial "foot" of this Taber Abraser.



This research chemist is examining a Kentile sample under a binocular microscope, checking surface smoothness.

TODAY'S KENTILE is a far cry from the "original" asphalt tile...many times superior in beauty and durability. Quality Control in all phases of manufacture insures a product as perfect as modern methods can make.

KENTILE FLOORS are long-lasting floors. The rugged, fire-resistant surface resists dirt, stain and wear...cleans and stays clean with only mild soap and water...gleams like new with just an occasional no-rub waxing.

Specifications and Technical Data

INSTALLATION

Can be installed over any smooth, firm interior surface that is free from spring, oil, grease, lumps or foreign matter: metal—wood—plywood—concrete—radiant heated concrete slabs—concrete in direct contact with the earth, on or below grade.

INSTALLED PRICES

Prices given here are for a minimum area of 1,000 sq. ft. over concrete underfloor. Installed prices range from approximately 20¢ per sq. ft. for 1/8" Group "A" (darker colors) to 40¢ per sq. ft. for 3/16" Group "D" (lightest marbled colors). (Installed prices vary according to the size of the installation and condition of the underfloor.)

THICKNESSES

Standard Kentile is available in two thicknesses: 1/8" for most residential and commercial uses...3/16" for industrial uses and wherever extra-heavy duty is expected.

SIZES

Standard tile size is 9" x 9".

SPECIAL KENTILE is a greaseproof asphalt tile flooring with extreme resistance to petroleum and cooking greases and oils, alcohols, alkalis and most acid solutions. It can be installed wherever Kentile can be installed...is available in a wide range of marbled colors... 1/8" and 3/16" thickness. Installed prices range from approximately 40¢ to 50¢ per sq. ft.

The **KENTILE** Flooring Contractor is a trained and experienced expert...fully qualified to aid you in choosing the proper floor for every residential, commercial and industrial installation.

Call on him whenever you wish as you would a paid member of your staff.

KENTILE, INC., 58 Second Ave., Brooklyn 15, New York
350 Fifth Ave., New York 1, N. Y. • 705 Architects Bldg.,
17th and Sansom Sts., Philadelphia 3, Pa. • 1211 NBC Bldg.,
Cleveland 14, Ohio • 900 Peachtree St. N.E., Atlanta 5, Ga.
2020 Walnut St., Kansas City 8, Missouri • 4532 South
Kolin Ave., Chicago 32, Illinois • 4501 Santa Fe Ave., Los
Angeles 58, Calif. • 452 Statler Bldg., Boston 16, Mass.

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Enduring Beauty



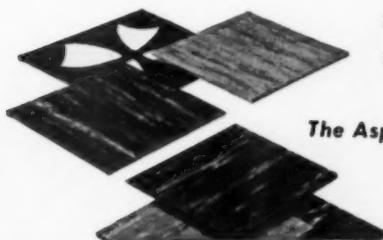
Original design in low-cost Kentile...exclusive ThemeTile and Kensert inserts...add to the beauty and appeal of any store, shop or office...lasts for years of hardest service. Kentile colors shown are Grand Antique and Grammont.



Nationally-advertised Kentile Floors increase the value and acceptance of every home...Colors shown are Genoa Green with Toledo Red Border plus ThemeTile and Yellow Feature Strip.



The rich, modern beauty of durable Kentile Floors is easily and economically maintained...Kentile colors shown are Lamartine and Veined Carnelian with a Sailfish Kensert.



KENTILE®

The Asphalt Tile of Enduring Beauty



KENTILE, INC., Makers of:
 KENTILE ASPHALT TILE
 SPECIAL (greaseproof) KENTILE
 KENCORK FLOORS and WOOD
 KENRUBBER TILE FLOOR
 KENFLEX VINYL TILE

Choose the floor that's **NATURALLY** beautiful!

BRUCE STRIP

Hardwood Floor

Prefinished for economy and durability

Owners get the biggest value in hardwood floors when you specify *Prefinished* Bruce Strip Floors.

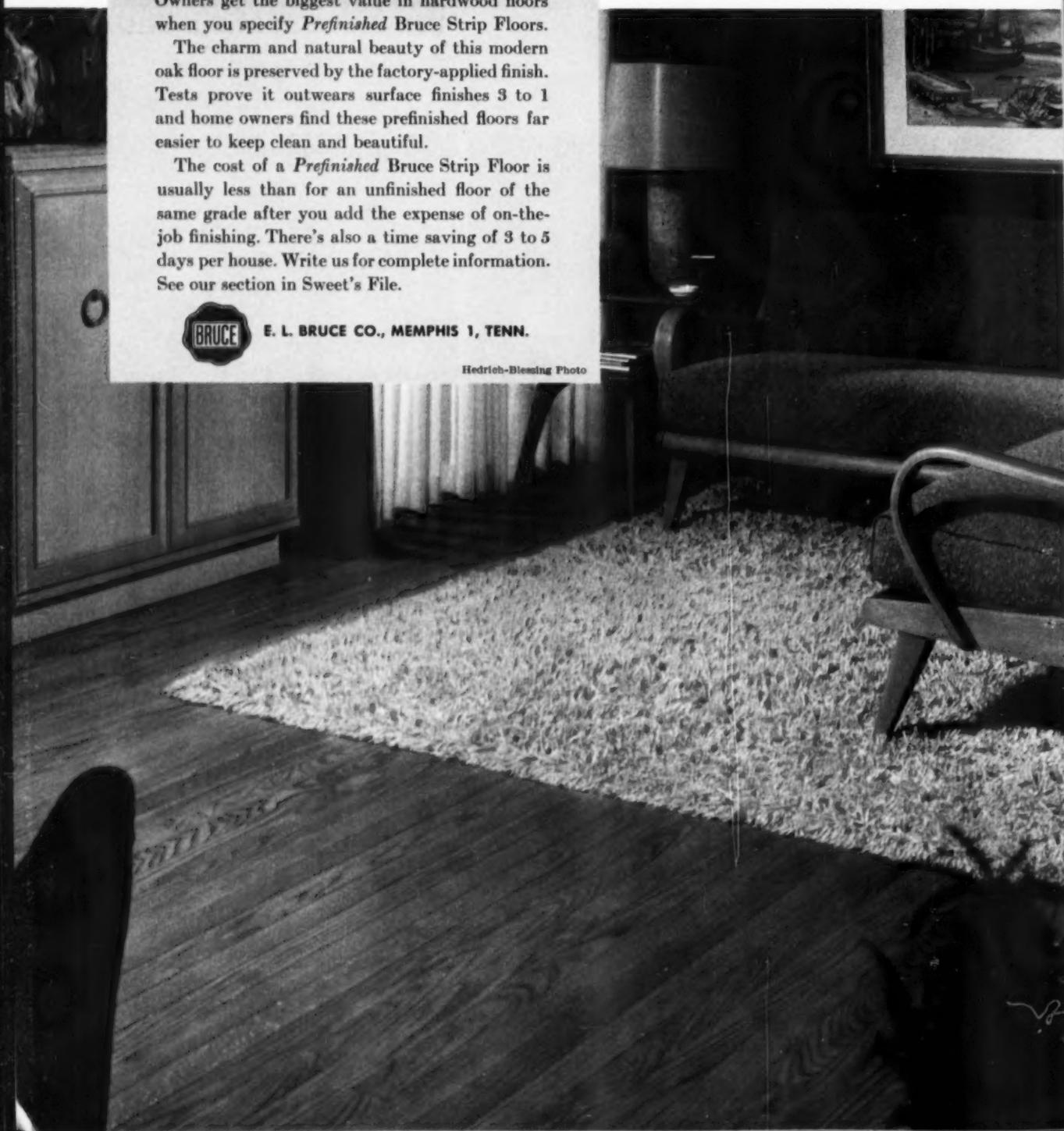
The charm and natural beauty of this modern oak floor is preserved by the factory-applied finish. Tests prove it outwears surface finishes 3 to 1 and home owners find these prefinished floors far easier to keep clean and beautiful.

The cost of a *Prefinished* Bruce Strip Floor is usually less than for an unfinished floor of the same grade after you add the expense of on-the-job finishing. There's also a time saving of 3 to 5 days per house. Write us for complete information. See our section in Sweet's File.



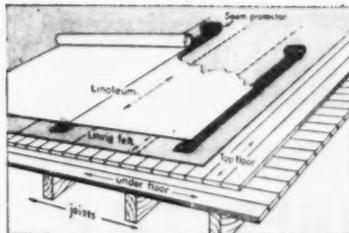
E. L. BRUCE CO., MEMPHIS 1, TENN.

Hedrich-Blesing Photo



Strip Floor Application

When possible lay strip floors lengthwise of the building. When applying over old finish floors, apply at right angles with the old floors. Thresholds are omitted in the modern home. Flooring should run continuously through doorways. Care should be exercised to stagger end joints to avoid grouping them closely together.



If laying linoleum across floorboards would involve wasteful cutting, follow direction of boards and seam protector

Resilient Floors

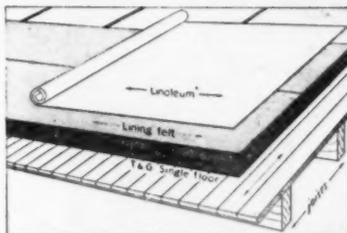
Resilient Floors. The major types of resilient floors are asphalt tile, cork, linoleum, rubber, and felt base with baked enamel surface. The use of a felt underlayment between the subfloor and resilient floor material is optional if the subfloor is of plywood or hardboard. In every other case, however, a felt underlayment is recommended if the long life and full benefit is to be expected of the resilient flooring. Subflooring must always be reasonably smooth and solid.

Resilient flooring should never be installed on wet or damp subfloors or on wood floors in contact with the ground. For full satisfaction it is recommended that at least 18 inches of air space and free circulation exist between subfloor and earth. Asphalt tile may be installed on concrete which is in contact with the ground if the concrete is fully treated with sealer. In every case, a dry condition must exist on the surface receiving the resilient flooring and underlayment.

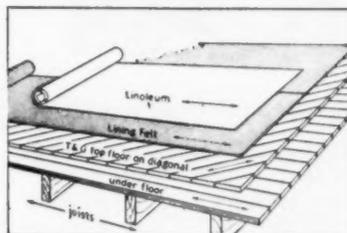
Flooring in Rolls. Cut resilient flooring to fit accurately at all points with a minimum of cross seams. A thin, even coat of paste is spread on the floor and the covering is pressed into place. Then roll well with a roller to remove air pockets and insure adhesion. Except for pattern goods, all resilient flooring should be overlapped slightly at the seams and cut through both thicknesses to insure a tight finished seam joint. Pattern goods must be carefully butted without further cutting to retain symmetry of design.

Tile Flooring. Determine the exact center of the area to be covered with tile flooring. Do this as shown in diagram shown elsewhere in these pages. Starting at the center line, spread adhesive in a thin even coat with a notched trowel. Cover enough area for several tiles and apply at once. Start laying tiles from the center point and work toward the walls so that last tile is set on perim-

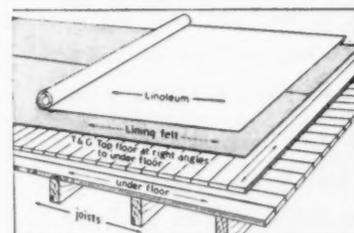
...how to lay linoleum



Single t&g floors should be covered with either 1/8-inch hardboard or 5-ply plywood; and linoleum and lining felt laid across boards



Where t&g floor runs diagonally to under-floor, linoleum and lining felt should be laid at 45-degree angle with top floor



For best results if t&g top floor runs at right angles to underfloor, linoleum and lining felt should be laid across floor boards

eter or border of the room. Cut and fit tiles carefully around all projections and fixtures. When laying tiles, butt firmly against each other but do not slide into position as this may force adhesive up between the seam joints. Borders should follow the line of permanent fixtures and border width can be varied to accommodate any dimensional variations.



...new, remodeling jobs with tile

Remodeling job over old plaster wall (above). New construction below. Completed work must be free of broken, damaged, cracked or otherwise faulty tiles



Minnesota Mining & Mfg. Co.

... structural glass bathroom walls



Libbey-Owens-Ford Glass Co.

Attractive bathroom wall installation is made with structural-type glass. Material has good resistance to moisture and stains

houses move faster with floors of WRIGHT RUBBER TILE



Floors of Wright Rubber Tile instantly indicate to the prospective buyer that you have put quality first. It gives him confidence in whatever you may tell him about the rest of the house . . . help you clinch the sale.

Features that show are features that sell. You install the latest cabinets, dishwashers and electric refrigerators . . . Don't spoil the effect with a drab unexciting floor. Go modern all the way with floors of Wright Rubber Tile. The cus-

tomers will be impressed very favorably.

Tell the prospect . . . about the 100 year life of a Wright Rubber Tile floor . . . that no floor requires less maintenance . . . Explain to him that over the years Wright Rubber Tile floors will save him money by needing no replacement.

Just try one house! Put in one of these gleaming floors in the next house you build for sale. Then watch how much more quickly your prospect becomes a buyer.

Wright Manufacturing Co.
5203 Post Oak Rd., Houston 5, Texas



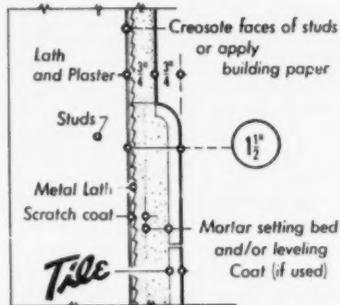
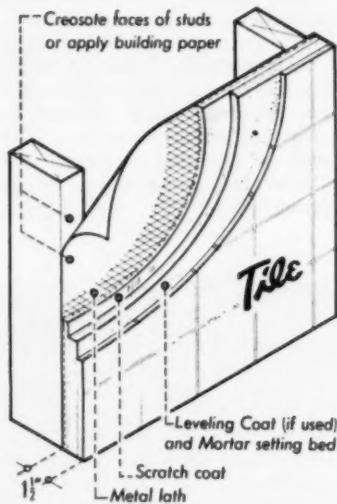
WRIGHT RUBBER TILE

FLOORS OF DISTINCTION

- WRIGHTEX—Soft Rubber Tile
- WRIGHTFLOR—Hard Surface Rubber Tile
- WRIGHT-ON-TOP Compression Cove Base

2500

... typical tile



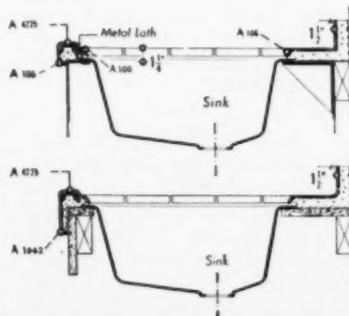
VERTICAL SURFACES. Wood members to receive metal lath and scratch work for clay tile are protected from dampness by building paper, creosote or asphalt paint. If scratch coat is applied with care, mortar setting bed will provide suitable surface and "leveling" coat may be omitted. Either floating or buttering method may be used in setting tile.

CUSHION EDGE

SQUARE EDGE



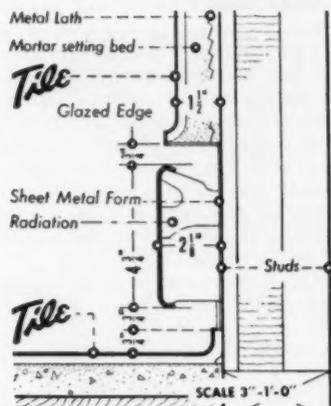
Tiles may have either square or cushion edges. Cushion type has slight curvature at facial edge.



SINK DETAILS. Glazed tile for lavatory counters, drainboards, etc., should be scratch and stain resistant.

AMERICAN BUILDER

construction details



Courtesy Tile Council of America

BASEBOARD RADIATION. Installation of a baseboard convective-radiant unit

... estimating tile requirements

Table of Approximate Percentages of Allowable Waste for Various Areas

Up to 50 sq. ft.	14%	
50 to 100 sq. ft.	10%	
100 to 200 sq. ft.	7%	to 9%
200 to 300 sq. ft.	6%	to 7%
300 to 1,000 sq. ft.	4%	to 6%
1,000 to 5,000 sq. ft.	4%	
5,000 to 10,000 sq. ft.	3%	to 4%
10,000 and up	1 1/2%	to 3%

SQ. FEET	9"x9"		12"x12"		6"x6"		9"x18"	
	No. of Tile							
1	2	1	1	4	1			
2	4	2	2	8	2			
3	6	3	3	12	3			
4	8	4	4	16	4			
5	9	5	5	20	5			
6	11	6	6	24	6			
7	13	7	7	28	7			
8	15	8	8	32	8			
9	16	9	9	36	8			
10	18	10	10	40	9			
20	36	20	20	80	18			
30	54	30	30	120	27			
40	72	40	40	160	36			
50	89	50	50	200	45			
60	107	60	60	240	54			
70	125	70	70	280	63			
80	143	80	80	320	72			
90	160	90	90	360	80			
100	178	100	100	400	90			
200	356	200	200	800	178			
300	534	300	300	1200	267			
400	712	400	400	1600	356			
500	890	500	500	2000	445			

To find the number of tile needed for an area not shown on chart, such as the number needed for 85 square feet, add the number for 80 square feet to the number for 5 square feet

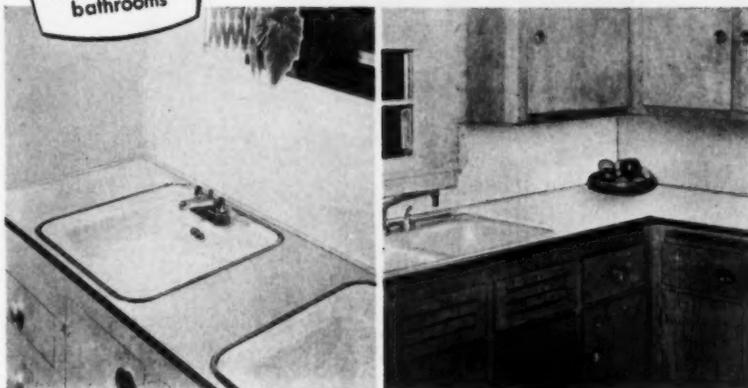
APRIL 1953

PANELYTE

HIGH-PRESSURE LAMINATE

Easiest to install
Quality Plastic Surface

FOR SINK-TOPS AND WALLS in kitchens and bathrooms



Now you can install **PANELYTE**
On - the - Job

PANELYTE
is also your answer to
Shop Fabricated Jobs

REGULAR Panelyte (1/16" thick) for bonding to plywood, is ideal for jobs fabricated in the shop. This durable, beautiful plastic for table-tops and work-surfaces has proved its dependability in homes, hotels, stores, restaurants and institutions for many years. It is the same fine laminate as 1/10" Panelyte, except in thickness. Complete range of colors and effects.

NO COSTLY DELAYS. Your men can install the new, heavier Panelyte—or local sub-contractors can easily handle the job. Composed of laminated plastic throughout its 1/10" thickness, this new form of Panelyte is beautiful and durable!

Installation is easy and quick, using metal moldings and ordinary hand tools. Large sizes, to 4' x 10', for fewer joints and more one-piece surfaces. And you'll have mighty attractive results to show—beautiful surfaces that will last a lifetime.

Panelyte in both thicknesses is available through dealers. Ask your dealer today or send coupon for complete information.



Panelyte is made by
St. Regis Paper Company
famous for paper and plastic
products of highest quality.

Panelyte Division AB-4
ST. REGIS PAPER CO.
230 Park Ave., New York 17, N. Y.

Please send me name of my nearest Panelyte dealer and complete information about Panelyte.

Name

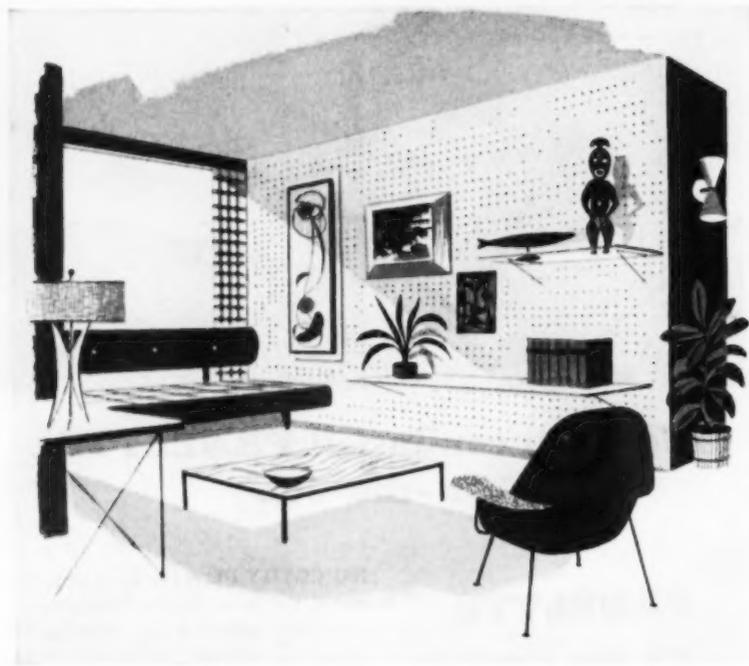
Firm Name

Address

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

PEG-BOARD

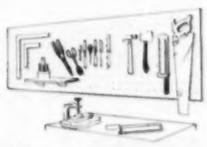
panels transform any wall into a **WORKING WALL**



decorative, functional, versatile!



"PEG-BOARD" presents a brand new concept in wall paneling—a combination of perforated hardboard matched with over 60 hanging fixtures (magazine racks, towel bars, shelf brackets, hooks, etc.) all instantly interchangeable without screws, nails or tools of any kind. Take a new look at those plans you're working on now—you'll find dozens of places to save space and add beauty and efficiency with "PEG-BOARD" panels and metal hangers.



Ideal for tools—in garage or workshop
 A perfect room divider
 Gives new utility to closet space

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See our catalog in Sweet's Light Construction File Section 4-E

BUILDERS: WRITE TODAY for complete descriptive literature, sample kit and prices.

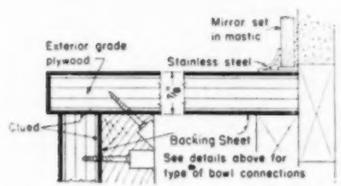
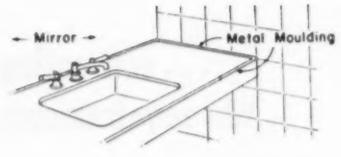
B. B. BUTLER MFG. CO., INC. 3146 Randolph St., Bellwood, Ill.

UTILITY SURFACES

Surface materials are produced by the manufacturer with four major factors in mind: (1) durability, (2) ease of maintenance, (3) decorative qualities, and (4) easy application. A combination of several surface materials may often be used in the same installation with good results. Materials impervious to water are a necessity around tubs, showers and lavatories. Materials of a softer texture may be preferred for the rest of the wall surface.

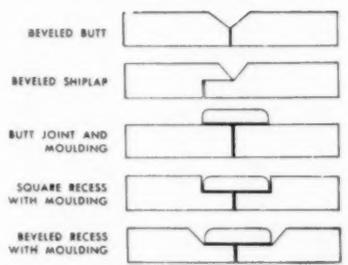
Both beauty and practical usage must be considered when selecting materials for surfacing sink, counter and work table tops in the kitchen.

plastic for lavatory

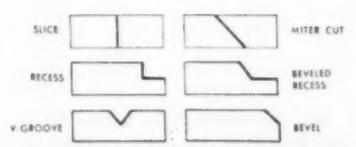


Courtesy General Electric Co.

... treatments for insulating board



Joint treatments of wood fiber insulating building board used as interior finish



Courtesy Simpson Logging Co.

Cuts obtainable with special cutting and beveling tools

AMERICAN BUILDER

all-plastic panel installations



Courtesy St. Regis Paper Co.

One all-plastic panel is set in place with cutout area for fixtures. Workman nails corner moulding to studding to provide firm anchorage. No backing or insulative material is used.

... hardboard plank wall installation



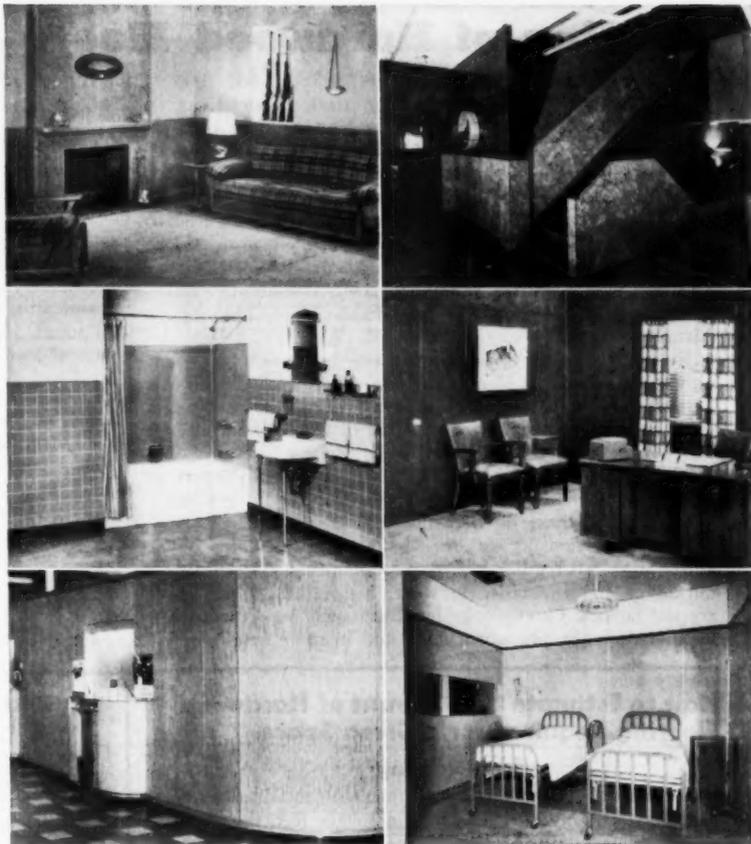
Plank is 16 inches wide to cover one stud space, has t&g joint for concealed fastening. Scoring is to resemble 6 and 10-inch alternating planks. Application here is a basement amusement room.



National Plastic Products Co.

Staples are used here for fastening at studs. There are several factory finishes for the product.

APRIL 1953



Marlite's ideal for remodeling any room in any building

Here are only a few of the many different types of interiors which can be remodeled faster, more economically with beautiful Marlite plastic-finished wall and ceiling panels. In the home, business, factory, and institution, Marlite is easily installed over old or new walls. The soil-proof finish slashes dollars off maintenance costs . . . eliminates painting.

New Wood and Marble patterns, plus a complete range of striking colors, provide a versatile selection for any interior in new construction or remodeling. See genuine Marlite at your lumber and building materials dealer, or write for full-color architect and builder catalog. Marsh Wall Products, Inc., Dept. 403 Dover, Ohio. Subsidiary of Masonite Corporation.

THE MARLITE NAME ON THE BACK OF EVERY PANEL IS YOUR GUARANTEE OF SATISFACTION.



Marlite[®]
plastic-finished
WALL and CEILING PANELS

Grading of Hardwood Floors

The principal American producers of hardwood strip flooring have, through two major trade associations, adopted uniform grading rules and regulations for commercial practice. Approved by the Bureau of Standards of the U.S. Department of Commerce, these rules and regulations are enforced rigidly, in part by the organizations themselves. As a result dealers and consumers are assured of high standard merchandise and the industry is protected against sharp practices. The two organizations are the National Oak Flooring Manufacturers' Association, with headquarters at Memphis, Tenn., and the Maple Flooring Manufacturers' Association, Oshkosh, Wis.

Every bundle of flooring produced by a member of either association is identified as to grade, and is guaranteed to meet all established specifications. Often the manufacturer's name and a mill mark of identification are stated on each bundle.

There are no official grading rules for plank, parquet and block flooring, but generally the different grades correspond to those of strip flooring.

Hardwood flooring grades are based principally on appearance. All regular grades possess adequate strength, durability and resistance to wear, hence these qualities are not factors. Chiefly considered are such imperfections as knots, streaks, pin worm holes and in some cases sap-

wood and variations in color. Imperfections in processing also are factors.

OAK—In Clear Grade Oak the amount of sapwood is limited. Otherwise, variations in color are disregarded in grading. Red and White Oak ordinarily are separated, but that does not affect their grading. In most cases the average length of strip flooring pieces is greater in the higher grades. Oak is classified into three grades of quarter-sawed stock and four of plain-sawed. In descending order the quarter-sawed grades are: Clear, Sap Clear and Select. Plain-sawed grades are: Clear, Select, No. 1 Common and No. 2 Common. (See Table below).

MAPLE, BEECH, BIRCH—Rules governing the grading of Maple, Beech and Birch are virtually identical for all three species. Neither sapwood nor varying natural color is considered a defect in standard grades. These species are produced in three standard grades—First, Second and Third, with First being the highest. Each also is available in a special grade selected for uniformity of color.

PECAN—Pecan is processed in seven standard grades, two of which specify all heartwood, and one bright sapwood. Otherwise color variation is not considered.

How to Estimate the Amount of Hardwood Flooring Required for a Given Space

Strip Flooring

To determine the board feet of flooring needed to cover a given space, first find the area in square feet, then add to it the percentage of that figure which applies to the size flooring to be used, as indicated below:

50% for	.....	25/32" x 1 1/2"
37 1/2% for	.....	25/32" x 2"
33 1/3% for	.....	25/32" x 2 1/4"
24% for	.....	25/32" x 3 1/4"
33 1/3% for	.....	3/8" x 1 1/2"
25% for	.....	3/8" x 2"
33 1/3% for	.....	1/2" x 1 1/2"
25% for	.....	1/2" x 2"

The above figures are based on laying flooring straight across the room. Where there are bay windows or other projections, allowance should be made for additional flooring. It is always well to order 5% additional flooring to take care of floor layers' cutting and possible damage.

Block and Plank Flooring

These are sold on the basis of floor coverage. It is necessary to provide only an additional 5% to floor area to compensate for floor layers' waste and possible damage.

Rules Governing Re-Inspection

In the manufacture and grading of oak flooring the very best types of machinery, equipment and workmen are employed, but occasionally some pieces get into wrong grades by error.

Therefore, if the re-inspection results in a difference in favor of the purchaser of more than five (5) per cent in feet, as shown in the invoice, then the shipper will be considered as being in the wrong and shall issue a corrected invoice in accordance with the re-inspection, and pay all the expenses of the re-inspection.

If on the other hand, the difference is only five (5) per cent or less in feet, then the party making the complaint shall not be entitled to any reduction from the invoice and shall furthermore, be charged with all the expenses of the re-inspection.

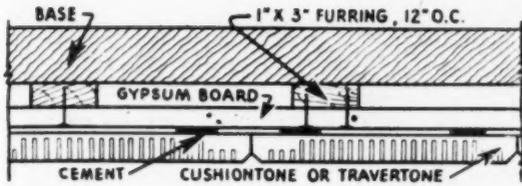
STANDARD SIZES, COUNTS AND WEIGHTS

"Nominal" is the size designation used by the trade, but it is not always the actual size. Sometimes the actual thickness of hardwood flooring is 1/32-inch less than the so-called nominal size. "Actual" is the mill size for thickness and face width, excluding tongue width. "Counted" size determines the board feet in a shipment. Pieces less than 1 inch in thickness are considered to be 1 inch.

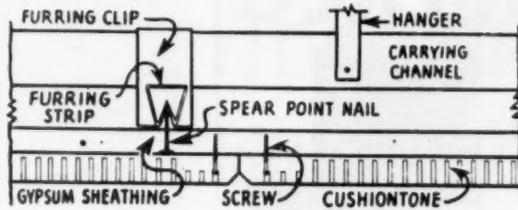
OAK			
Nominal	Actual	Counted	Weights M Ft.
TONGUED AND GROOVED-END MATCHED			
25/32 x 3 1/4 in.	25/32 x 3 1/4 in.	1 x 4 in.	2250 lbs.
25/32 x 2 1/4 in.	25/32 x 2 1/4 in.	1 x 3 in.	2000 lbs.
25/32 x 2 in.	25/32 x 2 in.	1 x 2 3/4 in.	2000 lbs.
25/32 x 1 1/2 in.	25/32 x 1 1/2 in.	1 x 2 1/4 in.	2000 lbs.
3/8 x 2 in.	11/32 x 2 in.	1 x 2 1/2 in.	1000 lbs.
3/8 x 1 1/2 in.	11/32 x 1 1/2 in.	1 x 2 in.	1000 lbs.
1/2 x 2 in.	15/32 x 2 in.	1 x 2 1/2 in.	1300 lbs.
1/2 x 1 1/2 in.	15/32 x 1 1/2 in.	1 x 2 in.	1300 lbs.
SQUARE EDGE			
2 1/16 x 2 in.	2 1/16 x 2 in.	face count	1200 lbs.
2 1/16 x 1 1/2 in.	2 1/16 x 1 1/2 in.	face count	1200 lbs.
BEECH, BIRCH, HARD MAPLE AND PECAN			
Nominal	Actual	Counted	Weights M Ft.
TONGUED AND GROOVED-END MATCHED			
25/32 x 3 1/4 in.	25/32 x 3 1/4 in.	1 x 4 in.	2250 lbs.
25/32 x 2 1/4 in.	25/32 x 2 1/4 in.	1 x 3 in.	2000 lbs.
25/32 x 2 in.	25/32 x 2 in.	1 x 2 3/4 in.	2000 lbs.
25/32 x 1 1/2 in.	25/32 x 1 1/2 in.	1 x 2 1/4 in.	2000 lbs.
3/8 x 2 in.	11/32 x 2 in.	1 x 2 1/2 in.	1000 lbs.
3/8 x 1 1/2 in.	11/32 x 1 1/2 in.	1 x 2 in.	1000 lbs.
1/2 x 2 in.	15/32 x 2 in.	1 x 2 1/2 in.	1300 lbs.
1/2 x 1 1/2 in.	15/32 x 1 1/2 in.	1 x 2 in.	1300 lbs.
SPECIAL THICKNESSES (T and G, End Matched)			
17/32 x 3 1/4 in.	22/32 x 3 1/4 in.	3/4 x 4 in.	2400 lbs.
17/32 x 2 1/4 in.	22/32 x 2 1/4 in.	3/4 x 3 in.	2250 lbs.
17/32 x 2 in.	22/32 x 2 in.	3/4 x 2 3/4 in.	2250 lbs.
JOINTED FLOORING—i.e., SQUARE EDGE			
25/32 x 2 1/4 in.	25/32 x 2 1/4 in.	1 x 3 1/4 in.	2250 lbs.
25/32 x 3/4 in.	25/32 x 3/4 in.	1 x 4 in.	2400 lbs.
17/32 x 2 1/2 in.	22/32 x 2 1/2 in.	3/4 x 3 1/4 in.	2500 lbs.
17/32 x 3 1/2 in.	22/32 x 3 1/2 in.	3/4 x 4 1/4 in.	2600 lbs.
<p>NOTE: Oak, Beech, Birch, Hard Maple and Pecan Flooring are bundled by averaging the lengths. A bundle may include pieces from 6 in. under to 6 in. over the nominal length of the bundle. No piece shorter than 3 in. admitted.</p> <p>The percentages under 4 ft. referred to in the grading rules on this page apply on total footage in any one shipment of the item.</p> <p>3/8-in. allowance shall be added to the face length when measuring the length of each piece.</p> <p>Flooring shall not be considered of standard grade unless the lumber from which the flooring is manufactured has been properly kiln-dried.</p>			

The quality and condition of the oak flooring when it leaves the manufacturer is held to govern the re-inspection.

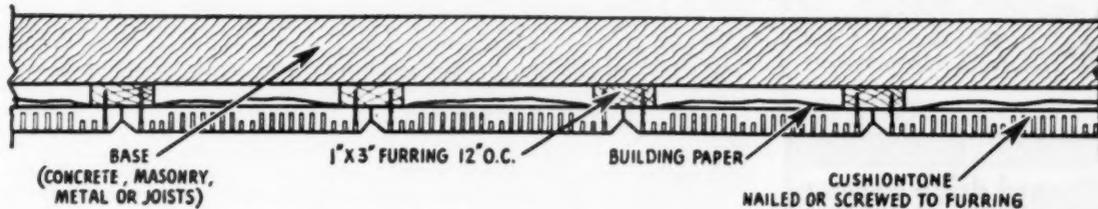
CEILING TILE BOARD INSTALLATION DETAIL



Cement application over furring. When the base surface (masonry, rough plaster, rough concrete, or open joists) does not provide a satisfactory base for cement application, a recommended method is to install 1x3-inch cross furring, 12 inches on center and cover with gypsum board or lath. This provides a sound base for cementing,

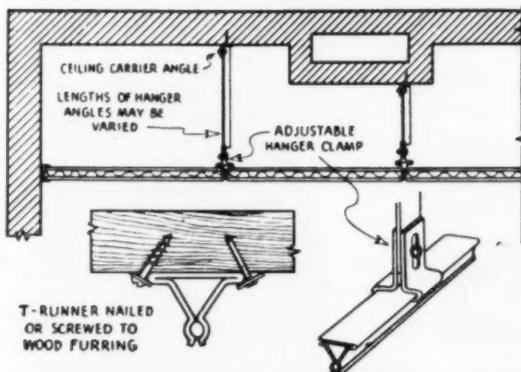


Mechanical installation of acoustical tile. There are several mechanical suspension systems which can be used for application of acoustical tile. The diagram above shows one recommended method. Metal carrying channels and furring strips support a surface of gypsum sheathing. Ceiling tile is screwed to this surface.

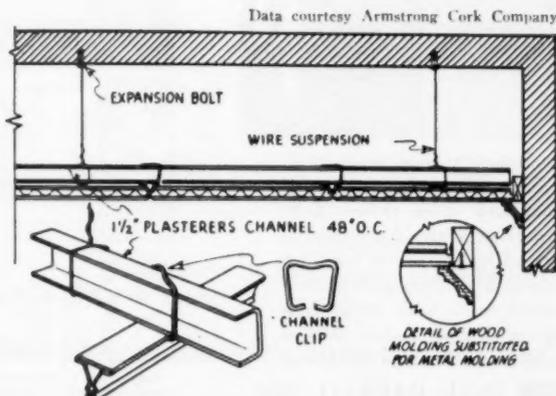


Application of acoustical tile to wood furring by nails or screws. By the use of cross furring 12 inches on center, acoustical tile may be applied by nailing or screw-

ing, in spite of an unsatisfactory base surface. When this method is used it is important to cover the furring with a layer of building paper to prevent "breathing" at the joints.



Mechanical suspension of ceiling tile. The metal T-runners, to which the ceiling tile metal pans are clamped, may be nailed or screwed directly to wood, or suspended



from metal hanger angles, as shown above at left. Another method, shown at right, calls for wire suspension of channels, to which T-runners are clipped 24 inches o.c.

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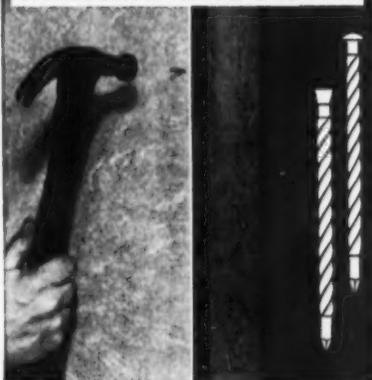
You be the judge! Finest tile quality . . . at the right price. Send for price lists and FREE SAMPLES of AMERCO Plastic Wall Tile. Convince yourself!

Write, Phone or Wire Dept. B

177 Broadway
New York 7, N. Y.
REctor 2-3469

Amerco
Plastics

wallboard drive screws



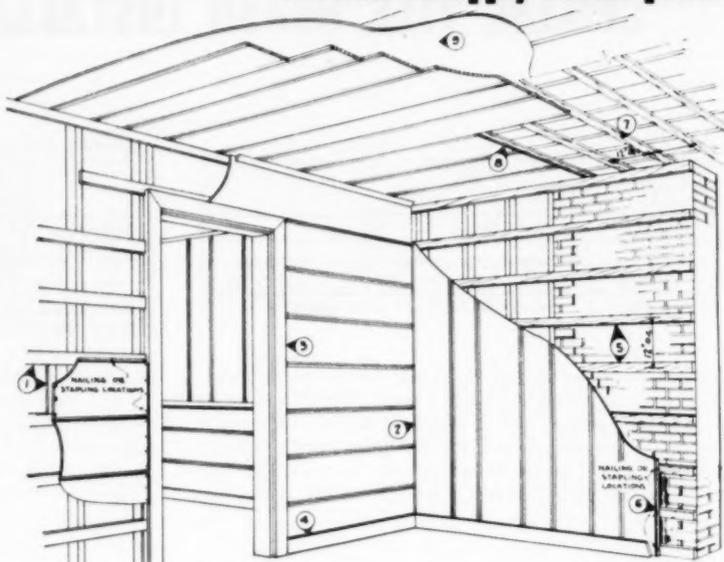
For installing asbestos cement-type wallboard use Hassall wallboard drive screws. Specifically designed with spiral threading for better holding power. Supplied with nickel-plated finish with either casing or button heads. Advise quantities. Prompt delivery.



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190 Clay Street
Brooklyn 22, N. Y.
Established 1850

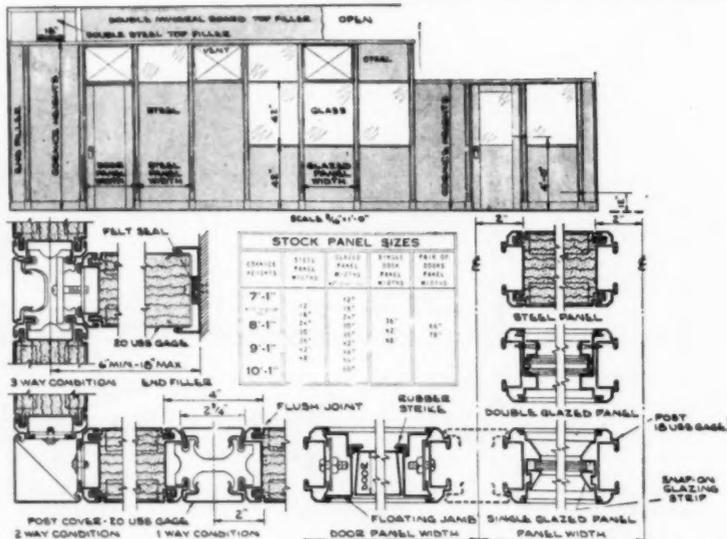
... how to apply finish plank



Courtesy Celotex Corp.

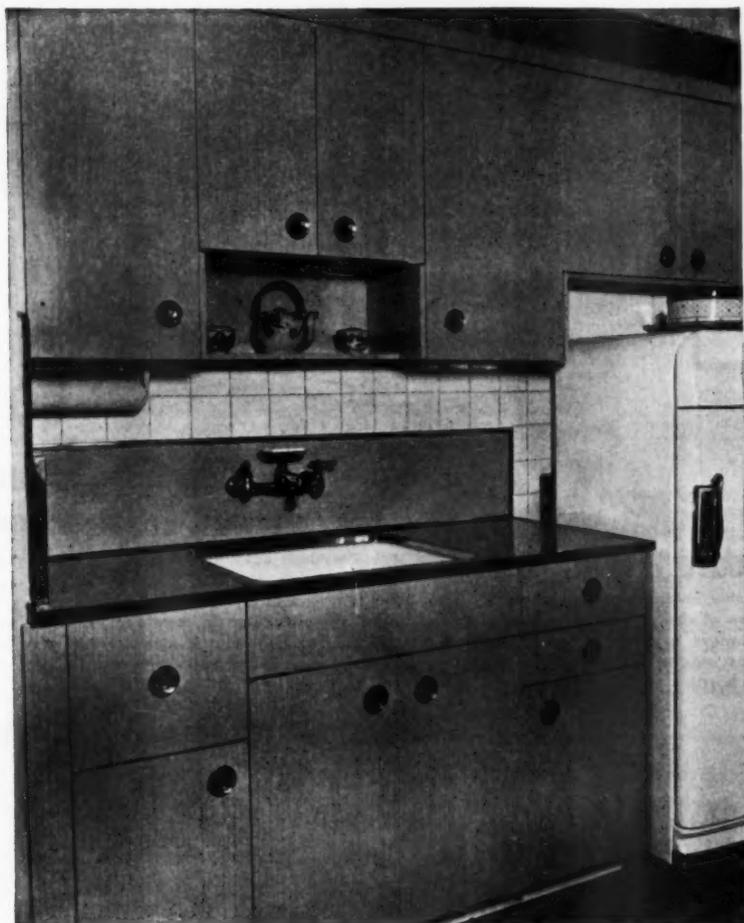
- (1) Horizontal application: Nail horizontal furring strips to wall framing or anchor strips securely to masonry walls. For wall areas longer than 12 feet, install vertical furring strips as nailing bases for butt ends of units. (2) Begin in corner of room, face nailing at wall and ceiling junctures. Cover exposed nailheads later with moulding.
- (3) In existing construction, butt plank against door or window trim or replace trim after application. In new construction apply trim over plank along edges of openings.
- (4) Horizontal application should begin at base of wall with tongues up. Nail or staple to furring strips 12 inches O.C. (5) Vertical application: Space horizontal furring strips as shown. (6) Apply vertical plank with tongue edge leading. Nail or staple to each strip. (7) Ceiling application: cross-fur joists with wood strips 12 inches O.C. Nail or staple units to strips. Face nail centers of 16-inch plank or apply heavy adhesive at intermediate furring strip locations. (8) Butt-end joints must center on furring strips and should be covered with building board strips, moldings or beveled to form a V-groove joint. Ends of plank should be face nailed to furring strips. (9) Apply plank to gypsum wallboard or plaster that is sound, reasonably level, and dry, using heavy adhesive and supplementary nailing, spacing nails 16 inches O.C.

... movable steel office walls



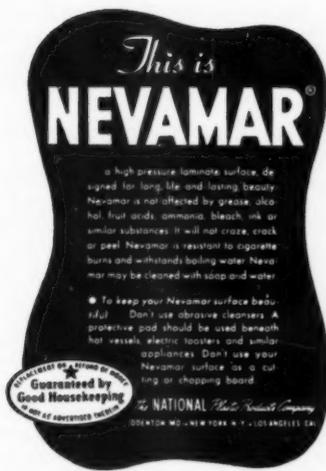
Virginia Metal Products Corp.

Movable office partitions offer easy adaptability to changing needs in small commercial and industrial buildings through interchangeable panels, doors and other fixtures, and simplified installation



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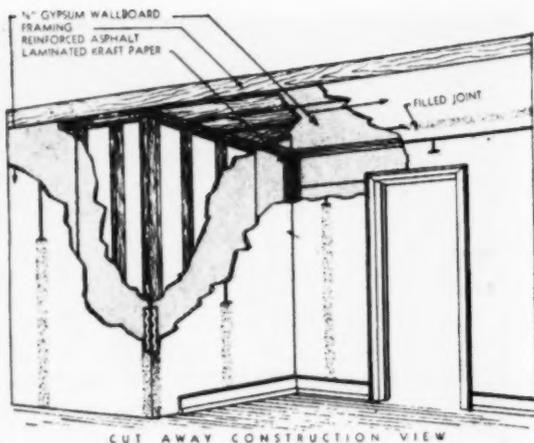
Manufacturers of Nevamar High-Pressure Laminates • SARAN FILAMENTS • Wynene Molded Products
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Certain-teed Products Corp.

... gypsum wallboard layout

Layout for walls and ceiling of bedroom, using 3/8-inch gypsum wallboard. For lowest cost and maximum use of sheet material, board should be carefully laid out, in standard lengths. This will reduce joints and help workmen get best results. Foil-back board may be used for insulation and vapor barrier



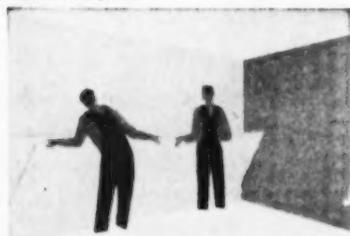
... laminated gypsum drywall construction

This patented system consists basically of applying two layers of gypsum wallboard to the studding in place of lath and plaster. First layer is nailed directly to studding. Second layer is glued and nailed on top of first in way that joints do not coincide. Walls are finished by filling all joints. System may be used in any wall or ceiling construction which requires decoration

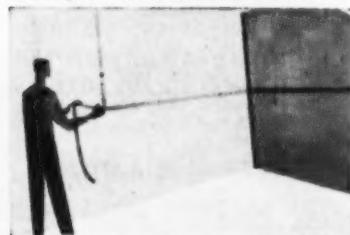
... installing 2-ply gypsum wallboard



First step: Nailing the 3/8-inch panels to studs and joists

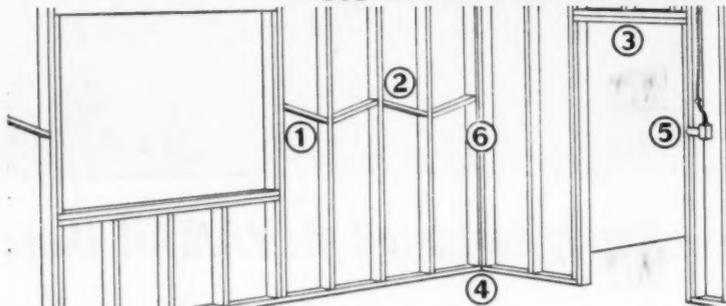


Then second or face-ply is cemented to first layer with laminating adhesive



Joints are concealed by reinforcing tape and cement which also leathers out at edges

... gypsum wallboard framing



Courtesy Gypsum Assn.

Before applying wallboard, check these framing details: (1) Straight studs. (2) Uniformly dimensioned lumber, to insure flush nailing surfaces. (3) Outer faces of all bridging, fire stops and headers should be flush with nailing face of studs, (4) Nailing faces should be flush and in true alignment with plate faces, top and bottom. (5) All electrical outlets, heating ducts, etc., should be positioned for flush alignment with finished surface. (6) Nailing surfaces should be provided on both sides of vertical corners

CLAY TILE

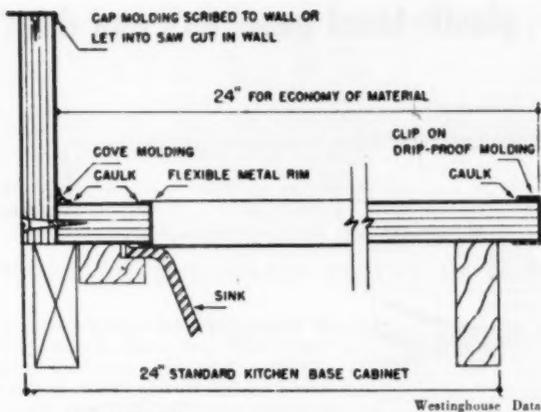
Clay tile is made from clay and/or other ceramic materials formed to thickness and shape and baked to produce a durable material. The two general types are "glazed" and "unglazed." Either may be used for wall finish but for most domestic installations the glazed finish is preferred. The glaze may either be clear or opaque. Almost any color or combination of colors is available, in a veined, mottled or rippled effect.

LINOLEUM AND RUBBER

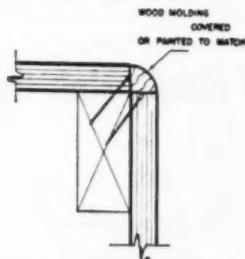
Linoleum and rubber types of wall coverings are available in rolls or cut tiles in varying sizes. Thicknesses,

tile sizes and roll widths vary with the manufacturers.

Linoleum or rubber materials may be applied directly to any smooth surface, above grade, provided no seepage occurs on the base surface. This includes such surfaces as one- or two-coat plaster, hardboard, plywood, gypsum lath or dry concrete walls. It is well to note that if the surfaces to be covered are not smooth and level the glossy surface of the material will cause highlighting at random which will result in a warped and wavy appearance of the wall or surface. All unevenness is accentuated after the surface material has been applied.



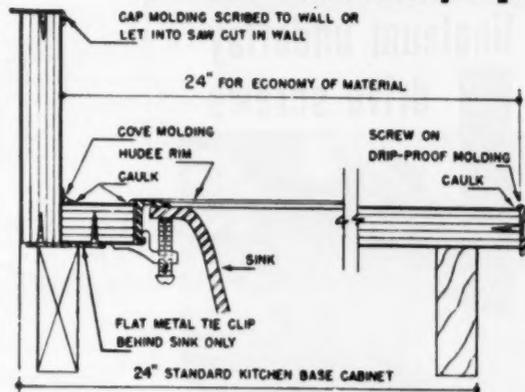
OUTSIDE CORNER WITH APPLIED MOLDING



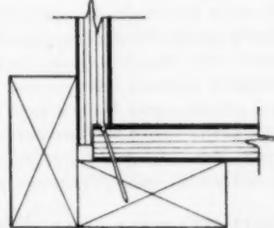
Flush mounting of laminated plastic is usually preferred wherever sink size is standard. Recessed rims give greater flexibility, since they can be formed to fit sinks of unusual size or shape, but are more difficult to apply. Caulking material must be used under all metal moldings in either case

Left: Simplest method of building outside corner is to use an applied molding. Molding may be covered with plastic sheeting or painted. Right: Simple inside corner construction. Corner moldings of veneer-on-metal or plastic-covered wood moldings may be used

... sink and lavatory tops



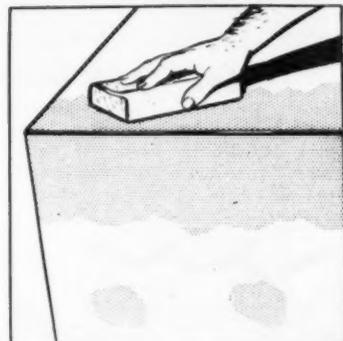
INSIDE CORNER



... getting ready to decorate



Before decorating gypsum wallboard, be sure finish-cement over joints has been feathered out smoothly. Conceal nailhead depressions with finishing cement



Showing difference in texture between feathered out joint and field of wall board. Joint is usually glossier; primer equalizes difference in texture



Joints, treated nailhead depressions and other surface irregularities should be lightly sanded to insure smooth receiving wall



To obtain full, uniform coat, size should be brushed on with semi-circular stroke. Primer and/or sealer give bonding surface for paint

Courtesy Gypsum Assn.

... applications of premolded membrane



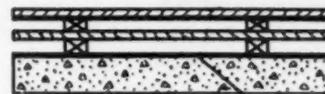
PREMOLDED MEMBRANE

Figure 1
In this application, membrane functions as both vapor pressure shield and capillary membrane. Treated sleepers are embedded in concrete



PREMOLDED MEMBRANE

Figure 2
Here static sleepers are bonded to membrane with mastic. Where perimeter insulation is desirable, it can be set between sleepers and box-framed at ends



PREMOLDED MEMBRANE

Figure 3
When a subfloor is desired, a double dead air space is formed in this manner between the two membranes



PREMOLDED MEMBRANE

Figure 4
In this installation a single layer of premolded membrane is cemented to the slab to serve as waterproofing membrane and flooring underlay

Courtesy W. R. Meadows, Inc.

annular-threaded linoleum underlay drive screws



To make your linoleum underlays hold tightly and lie flat permanently, secure them with Hassall annular-threaded linoleum underlay drive screws. They are cement-coated for maximum gripping power. Heads are flat countersunk type. Size: 1 1/4" x #3 gauge. State quantity when writing for prices to:

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- Gives workmen complete control during installation.

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Builders have found that workmen can install ceiling panels all day long and not become exhausted . . . and workmen do a faster, neater, more satisfactory job with the new GYP "C" JACK. The new GYP "C" JACK consists of three parts . . . a 21 by 21 inch base . . . with creeper casters . . . a top spring-steel spider arm for hold-

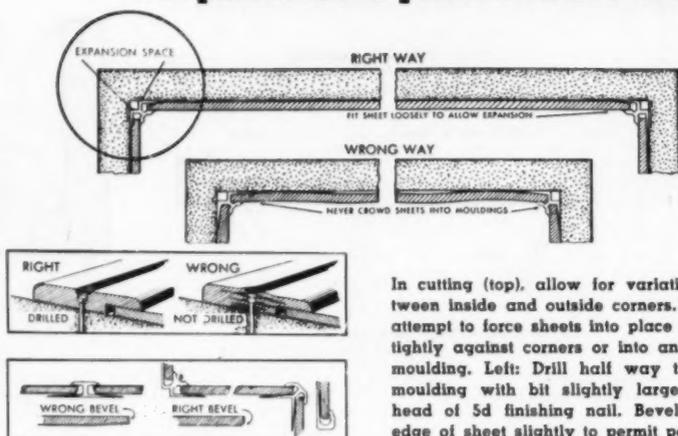
ing gypsum boards . . . a Jack assembly capable of elevating a 1/2" by 4' by 12' gypsum board. The GYP "C" JACK contrasts to a height of 6'0" and can be extended to a height of 9'0". GYP "C" JACK extensions are available for higher ceiling installations.

Write for folder describing complete line.

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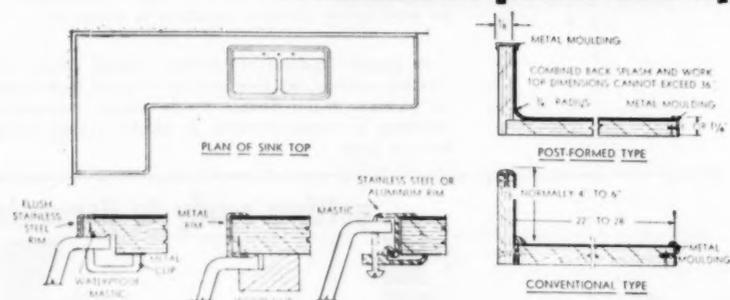
... plastic-faced panel do's and don't's



Marsh Wall Products, Inc.

In cutting (top), allow for variation between inside and outside corners. Never attempt to force sheets into place or butt tightly against corners or into any type moulding. Left: Drill half way through moulding with bit slightly larger than head of 5d finishing nail. Bevel back-edge of sheet slightly to permit panel to move freely into mouldings

... laminated plastic sink top



SECTIONS AT SINKS AND BOWLS

Courtesy Formica Co.

Typical sink top installation with laminated plastic. Material has great durability and is easily cleaned

starting ceiling tile application



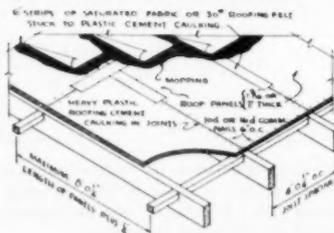
Courtesy Wood Conversion Co.

Left: First fiber tile is applied to starter strip. Entire first row should be applied across ceiling before second row is installed on opposite side of strip. Second row (above) takes shape opposite starter course



... panel roof deck

Exposed joists of panel roof decking provide attractive ceiling for living room. Below: Application details for flat or pitched panel roof deck. Panels may be used as a base for built-up roofing



AMERICAN BUILDER



Mr. L. L. Darley, builder of the new
"Young America" House and other fine homes
at Knollwood Acres, Mount Carmel, Connecticut.

"THERE ARE SO MANY PLACES IN A HOME WHERE YOU CAN USE

G-E TEXTOLITE* PLASTICS SURFACING TO ADD BEAUTY AND UTILITY"

"When I first began using G-E Textolite, I concentrated mostly on tops for kitchen sinks and cabinets. But I quickly found out that there are *dozens of other places* around the house where you can take advantage of its beauty and extreme durability."

Mr. Darley has been building fine homes for many years, and knows how highly home buyers value quality and good looks. That's why he uses G-E Textolite surfacing for kitchen sinks and counters, fine bathroom vanities, wall cabinets, tables—and for so many other places around the homes he builds.

See for yourself the beauty of the new G-E Textolite patterns, including distinctive G-E designs and nine new wood-grains. A copy of the new full-color pattern booklet is ready for you. See your nearest G-E Textolite distributor or write: General Electric Company, Chemical Division, Section 321-3B, Pittsfield, Mass.

*Reg. U.S. Pat. Off.

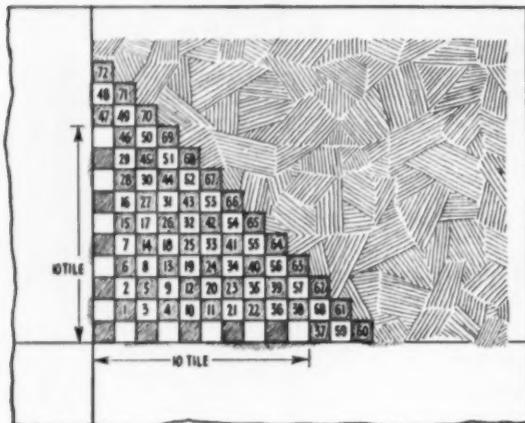


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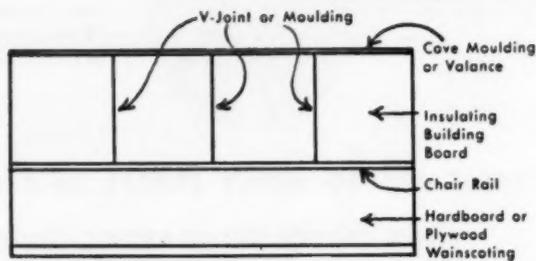
... "checkerboard" tile design



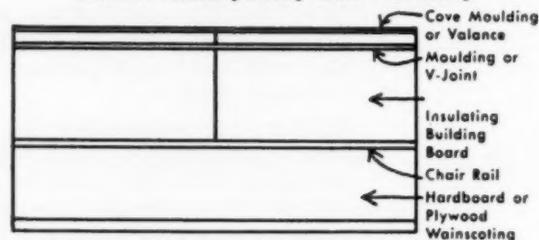
Courtesy Armstrong Cork Co.

Checkerboard designs "on the square" can be laid faster when all of one color tile are installed in diagonal rows. Lay guide tile (about 20), then follow numerical order

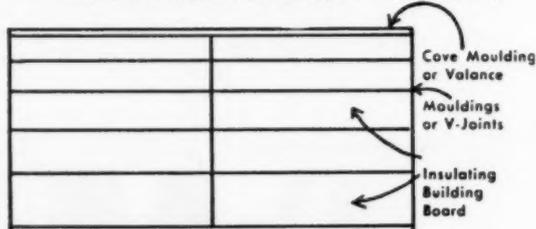
... four designs with insulating board



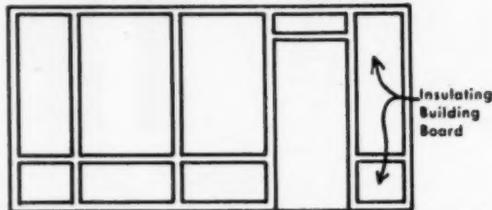
Detail of vertical paneling above wainscoting



Building board applied horizontally above wainscoting



Horizontal V-Joint or moulding design



Courtesy, Simpson Logging Co.

Insulating board applied in paneling design

If gypsum wallboard is the base, the surface should be sealed with one coat of primer; around tubs two coats should be used. Only a non-metallic tape and cement flush-joint system should be used on the gypsum board. An opening of about 1/4-inch should be left between gypsum board and recess of tubs to permit grouting with a water-resistant, non-shrinking plastic grouting compound at the time the surface material is applied.

METAL TILE

Metal tiles come with a wide variety of baked enamel finishes and are of a flexible nature permitting bending for interior or exterior corners without damaging the

PREFERRED FOR EVERY TYPE OF INSTALLATION

Mouflex
IMPROVED VINYL-PLASTIC TILE FLOORING

- Available in both low-cost standard gauge and 1/8" heavy-duty thickness.
- Vinyl-Plastic throughout—no felt backing.
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- Can be installed on, above or below grade.
- Resists dirt, grease, acid, alkali and fire.
- 13 striking color combinations.

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DEPT. M5-4

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SINCE 1929

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FACTS FOR BUILDERS

ABOUT "CONSTRUCTION BY ADHESION"



HERE ARE NEW METHODS WHICH
MEAN SUBSTANTIAL SAVINGS IN LABOR AND
MATERIALS FOR MODERN CONSTRUCTION

in both **NEW** building and **MODERNIZATION**

WRITE TODAY FOR RECOMMENDED SPECIFICATIONS ON
1. Setting Genuine Clay Tile. 2. Insulating Ducts. 3. Insulating walls and ceilings
either by Direct Adhesion or in conjunction with Surface Anchors. 4. Installing
floor runners; bonding furring strips.



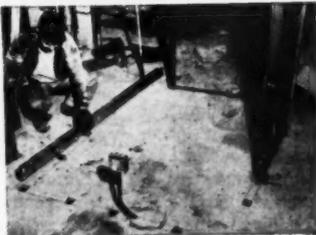
1. Today it is normal procedure to install clay tile in hotel bathrooms without losing a night's revenue. This illustration shows one of the 144 rooms in the White Plaza Hotel, Dallas, Texas, in which MIRACLE ADHESIVE was used to do the job from the time the guest left his room in the morning until he returned that afternoon.

2. Plaster applied over wire and cork which has been attached to aluminum ducts using MIRACLE ADHESIVE and MIRACLE SPINDLE ANCHORS at John Hancock Mutual Life Insurance Co. Building, Boston, Mass. ARCHITECT, Cream and Ferguson. BUILDER, Turner Construction Co.



3. FIBERGLAS Insulation Type PF-613, 2" thick — bonded to concrete ceiling using MIRACLE PRONGED ANCHORS at Radio City Studio 6B, New York, N. Y. CONTRACTOR, William J. Scully, Inc., New York, N. Y.

4. WOOD RUNNERS installed on concrete floors with MIRACLE ADHESIVE and MIRACLE ANCHOR NAILS to support 2" solid partitions. Washington Circle Apartments, Washington, D.C. GENERAL CONTRACTOR, Charles H. Tompkins Company.



VISIT MIRACLE EXHIBIT AT ARCHITECTS SAMPLES CORP.
101 PARK AVE., NEW YORK CITY

finish. Solid colors, mottled and hammered effects, make available a wide variety of color combinations. Base material of tile may be stainless steel, steel or aluminum. Metal tile installation follows the method outlined for other tiles. They may be applied to almost any solid, clean, level surface.

A special wall tile of porcelain fused on 20-gauge steel is installed by cementing tiles to special foundation board 1/2-inch thick and scored in 1/2-inch squares, which align the tiles perfectly and speed installation.

COATED AND UNCOATED HARDBOARD

Wall-size panels with a hardboard base and factory finished by a coating, baked on, in a variety of colors, are applied in the same manner as unfinished hardboard. See the section on "Plywoods and Hardboards" for basic properties and details on how to handle, cut and fabricate hardboard panels.

Hardboard is also available uncoated for interior wall treatment. Two patterns are available—leather and tile-scored.

Factory-finished panels with hardboard base are usually 3/8-inch thick. Allowances should be made in construction for this thickness. Standard sizes are usually 4-foot widths and lengths of 4, 6 and 8 feet. Smaller widths are available.

GLASS PANELS

Recommended thicknesses of glass panels for bathroom and kitchen wall treatment are 1 1/2 and 3/8 inches. Weight is approximately 4 1/2 pounds per square foot of 1 1/2-inch thickness. Glass panels may be installed over any hard, firm wall surface which is of true plane, plumb and straight. A bond coat should be painted on the wall surface to get good mastic adhesion. An allowance of 3/8-inch should be allowed for setting behind the glass panel. Mastic is applied in gobs on the reverse side of the panel. Five gobs would be about right for an 8 by 12-inch plate. Sufficient mastic should be used to insure that at least 50 per cent of the total area of the glass panel is bonded to the backing.

PLASTIC SURFACES

Plastic surface panels or tiles for wall treatment consist of laminated plastic material bonded to composition building boards and installed either directly to studding or solid walls in the same manner as plywood panel installation. Standard thickness is 3/2-inch. Panel sizes vary greatly with manufacturer, starting at about 24-inch widths. Solid walls should be prepared plane-level and panels may be bonded to walls by the use of adhesive cements. Receptable-type mouldings should be used on wall treatment installations of plastic finished panels.

INSULATING BOARD

Decorative insulating boards include sheets, plank and tile boards which are well standardized. Sheets are made in standard 4-foot widths, 8, 10, and 12 feet long. Plank is manufactured in 8, 10, 12, and 16-inch widths and lengths of 8, 10, and 12 feet. Tile is generally made in 12 by 12, 12 by 24, 16 by 16 and 16 by 32 inch sizes. They are prefinished in a variety of plain and colored surfaces and are as adaptable for remodeling and redecoration as for new construction.

GYPSUM BOARD

There are three thicknesses of gypsum wallboard—1/4, 3/8, and 1/2 inch. The length varies from 4 to 12 feet. The 1/4-inch board is made with square edges only. It is a lower-priced product designed to serve specific purposes, such as (1) temporary repairs and alteration work; (2) as a covering over old wall surfaces, and (3) for ceiling repairs where light weight is needed.

The 3/8-inch standard gypsum board and 1/2-inch wall board is available with square, beveled and recessed edges.

Insulating gypsum wallboard is made with all types of edges and thicknesses. Aluminum foil is firmly attached to the back surface of this board to provide reflective insulation and act as a vapor barrier.

Gypsum tile board is made in $\frac{3}{8}$ -inch thickness only, and from 6 to 10-foot lengths. These boards have a square edge and an ivory surface but with tile indentations $4\frac{1}{2}$ inches square.

Wood-grained gypsum board is made in $\frac{3}{8}$ -inch thickness and from 6 to 12-foot lengths. Edges are square or beveled. A paper having a photographic reproduction of knotty pine, bleached or ribbon mahogany, walnut, or figured aspen is used.

Preparing the Framework

Gypsum wallboard, like any other wall or ceiling finish, requires level and true framework. The wood supports should be properly spaced and leveled in a workmanlike manner. Faces of studs should be lined up with the face of plates at top and bottom. Studs and joists should not exceed 16 inches on centers, except that their spacing may be increased to 24 inches when $\frac{1}{2}$ -inch wallboard is used. Substantial nailing surfaces should be supplied at all interior and exterior corners so that the ends of boards forming the corners may be securely nailed.

ASBESTOS-CEMENT FLAT BOARDS

An attractive stone gray in color, asbestos boards are hard and smooth on one side and slightly textured on the other. They are a practical material for structural wallboard use and are highly serviceable for exterior surfaces as well as interior walls.

Made in sheets $\frac{1}{8}$ to $\frac{3}{8}$ -inches thick, four feet wide and eight feet long, the boards are light enough to be handled easily. Nailing is the usual method of application, although they can be put on with a special adhesive, supplemented by nails, mouldings or other overlapping devices. As an alternate to nails, wood screws may be used.

WALLBOARD AND TILE

Wallboard and ceiling tile made of layers of wood or fiber or paper bonded with resins are available. Wallboard panels are waterproofed and measure up to 8 feet wide and 18 feet long. Panels $\frac{3}{8}$ -inch thick with pebbled surface are ideal for either painting or papering.

Dry-built, full-wall construction is economical with the use of these laminated fiber panels, waterproofed and with strong insulation value. The wall panels come in standard sizes 4 feet wide by 6, 8, 10, 12 and 16 feet long, and full-wall sizes 8 feet by 12, 14, 16, and 18 feet long. Surfaces are sized to provide a perfect painting surface. Ceiling tiles of similar material are cut to 12-inch squares, with edges moderately beveled. Manufacturers claim they are so completely waterproofed that they can withstand even unusual moisture conditions. Their natural finish is decorative, washable, and will take oil-base paints.

Decorative Wallboards

Also available are 7-ply laminated fiber panels in striated design, guaranteed to be permanently crackproof and possessing effective insulating qualities. They are compressed to $\frac{1}{4}$ -inch thickness, and are available in sizes 4 by 8 feet or on special order in larger sizes. They are applied directly to studs with the same type of fasteners previously mentioned. For baths and kitchens a pre-finished fiber board is available in giant size panels 8 feet wide by 12 feet long, as well as standard 4 by 8-foot size with the glossy tile-like surface embossed in various colors in squares.

Decorative Tile and Tileboard

Decorative tileboard is used almost exclusively on ceilings. These boards have interlocking tongue-and-groove joints with extra-wide nailing flange so that adjoining units fit together firmly and smoothly, and allow concealed fastening. They can be applied with stapling gun, without use of special clips. Many attractive patterns may be worked out with ceiling tile, used with or without color variations and combinations. Intricate patterns, however, require extra care in installation. They start from the center of the ceiling, and care must be taken to insure adequate furring where tiles of varying sizes and shapes are used.

ACOUSTICAL MATERIALS

Perforated acoustical fiberboard tile are particularly desirable because of their comparatively low cost and ease of maintenance. Most are factory painted and require no finishing treatment on the job but may be painted without losing acoustical qualities. The beveled units may be cemented to plaster, concrete, plasterboard ceilings, or mechanically fastened to wood furring or directly to plasterboard. The manufacturer provides a special self-clinching nail for attaching directly to plasterboard.

Glass Fiber Tile

Acoustical boards and tile made of glass fiber are well suited to suspended ceiling constructions because of their low weight and dimensionally stable characteristics. Standard acoustical adhesives may be used. However, they are not recommended for use on surfaces which are subject to frequent condensation or under conditions where the tiles will remain wet, as water-staining may result.

Mineral Fiber Tile

Another type of acoustical tile is made from mineral fibers. It is designed in both a marble pattern and etched surface. The various methods of installation with adhesives, mechanical erection, or nailing direct to wood strips according to manufacturers' specific recommendations all have advantages depending upon the specific type of construction, but adhesive application is the most widely used method and is recommended where a suitable base exists.

MECHANICAL SUSPENSION METHODS

Cold-rolled, 16-gauge steel channels are wired in some installations to furring channels for suspended ceilings or fastened directly to ceiling or wall construction for directly applied acoustical finish. Channels are set at approximately the center line of the ceiling tiles, eliminating the lining-up with the joints. Combination "clip-snap-on" metal acoustical wall trim composed of extruded aluminum or rolled 22-gauge galvanized iron is angle punched to receive the clips which not only hold the tile in place but also receive the finished trim after the job is completed. After the ceiling is laid, cove molding is snapped into place, using the clips already set to hold the tile.

PARTITION SYSTEMS

Of particular interest to the builder who has occasion to erect small offices or light commercial and industrial structures, office partition systems are available in various combinations of wood and steel, pre-finished boards, insulating boards and other combination materials.

Steel and Glass Panels

Several types of steel and glass panels are available, most of which offer interchangeable panel and door sections, universal doors, reversible hardware, identical fittings between panels and linking panels to posts, and other conveniences of erection.



Pittsburgh Plate Glass Photo

Versatility of glass as a building material has given impetus to the development of a modern style of architecture distinctly in step with the times, with entire walls of glass. Unlike single window units, these consist of multiple windows banked in a group. In homes now being built, from six to twelve such units go into one wall, usually the focal wall of the living room. Luxury ranch type home above utilizes Twindow double-glazed units

TYPES OF GLASS

There are many types of flat glass available to the builder today which were unheard of 30 years ago. In addition to the centuries-old spun glass or crown glass and blown glass, there are heavy drawn and fluted drawn sheet glass, polished plate, rough plate, rolled sheet, fluted rolled, rough cast, figure rolled, tempered plate, opal and colored opal, safety glass, pressed glass, ultra-violet glass, heat-resisting glass, and a host of others including corrugated, glass block, and architectural glass.

Sheet Glass

Sheet glass used for windows is commonly single strength. The safe glazing size must always be considered so that the glazed area will have sufficient strength to withstand wind stresses. The table below summarizes this information and indicates some of the basic sizes of window glass available.

Weight per sq. ft.	Thickness	Manufactured Sizes	Safe Glazing Size
15 oz.	$\frac{3}{16}$ "	60 x 40"	24 x 24"
21 oz.	$\frac{1}{10}$ "	81 x 42" or 68 x 50"	30 x 30"
26 oz.	$\frac{3}{8}$ "	81 x 45" or 70 x 51"	35 x 35"
32 oz.	$\frac{1}{2}$ "	74 x 39" or 58 x 50"	40 x 40"

Sheet glass is made in various qualities: "firsts" for cabinet work; "seconds" for picture framing and glazing; "thirds" for houses, schools, and offices; "fourths" for general glazing; and "horticultural" for greenhouses. Heavy drawn sheet glass is used as a substitute for plate in cheaper construction.

Plate Glass

Plate glass contains more lime and less soda and magnesia than sheet glass, and is made by the semi-continuous method of rolling, while sheet glass is made by the fully continuous method of drawing. Prior to 1923 plate glass was made by pouring molten glass onto a casting table. Plate glass is ground and polished, which may remove as much as half of its original thickness, leaving a smooth, glossy, and optically true glass, structurally sound and highly attractive. Thicknesses range from $\frac{1}{8}$ inch to $1\frac{1}{4}$ inches and sheet sizes are available up to 127 by 286 inches.

Heat-absorbing plate glass excludes much of the heat in the sun's rays while transmitting most of the light. It is especially useful in industry where it is desirable to reduce interior temperatures which would otherwise be raised by the sun's heat. Exclusion of this solar heat means substantial savings of cooling costs in air-conditioned buildings. Such glass may be plain, corrugated, or wire-meshed.

Tempered Plate Glass

Tempered plate glass is made by re-heating a piece of plate glass and then rapidly cooling the surface with air jets. This sets up a system of balanced stresses and strains in the material which makes it many times as strong as ordinary plate glass. It cannot be cut once it has cooled, for this would shatter the balance of strain and stress and reduce the whole piece to fragments. Consequently, it must be cut to exact size before it is tempered.

Widely used in modern store fronts and entrances, as well as in display cases and some shower stalls, tem-

GLASS GLASS BLOCK GLAZING & CAULKING

Types of Glass

- Sheet glass
- Plate glass
 - Heavy plate
 - Heat absorbing
- Tempered plate glass
- Patterned glass
- Double and triple glazing
- Structural
 - Corrugated
 - Colored
- Architectural glass
- Glass block
- Mirrors

Plastic-Glass Products

Glazing and Caulking

- Putty
- Caulking compounds

Installation Procedures

Detail Plates For Basic Structures

FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.

Pittsburgh Glass helps you get sales *instead of* "stalls"

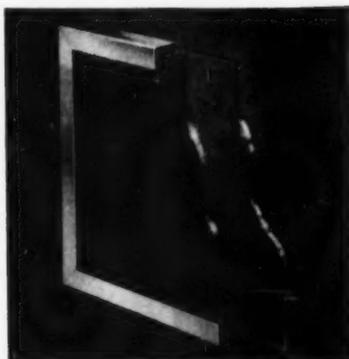


CARRARA GLASS on bathroom and kitchen walls stamps a home as having exceptional value. Builders everywhere have found that Carrara is an important factor in turning casual "lookers" into buyers. For it is recognized nationally as a high quality wall material. Its rich beauty and polished surface appeal to everyone. So does its permanence—the fact that it doesn't check, craze, or fade with age. Being glass, people know it's extremely easy to keep clean. And there are ten attractive colors to choose from. For tub recesses and stove backings, large Carrara Panels give the advantages of this structural glass at small cost.

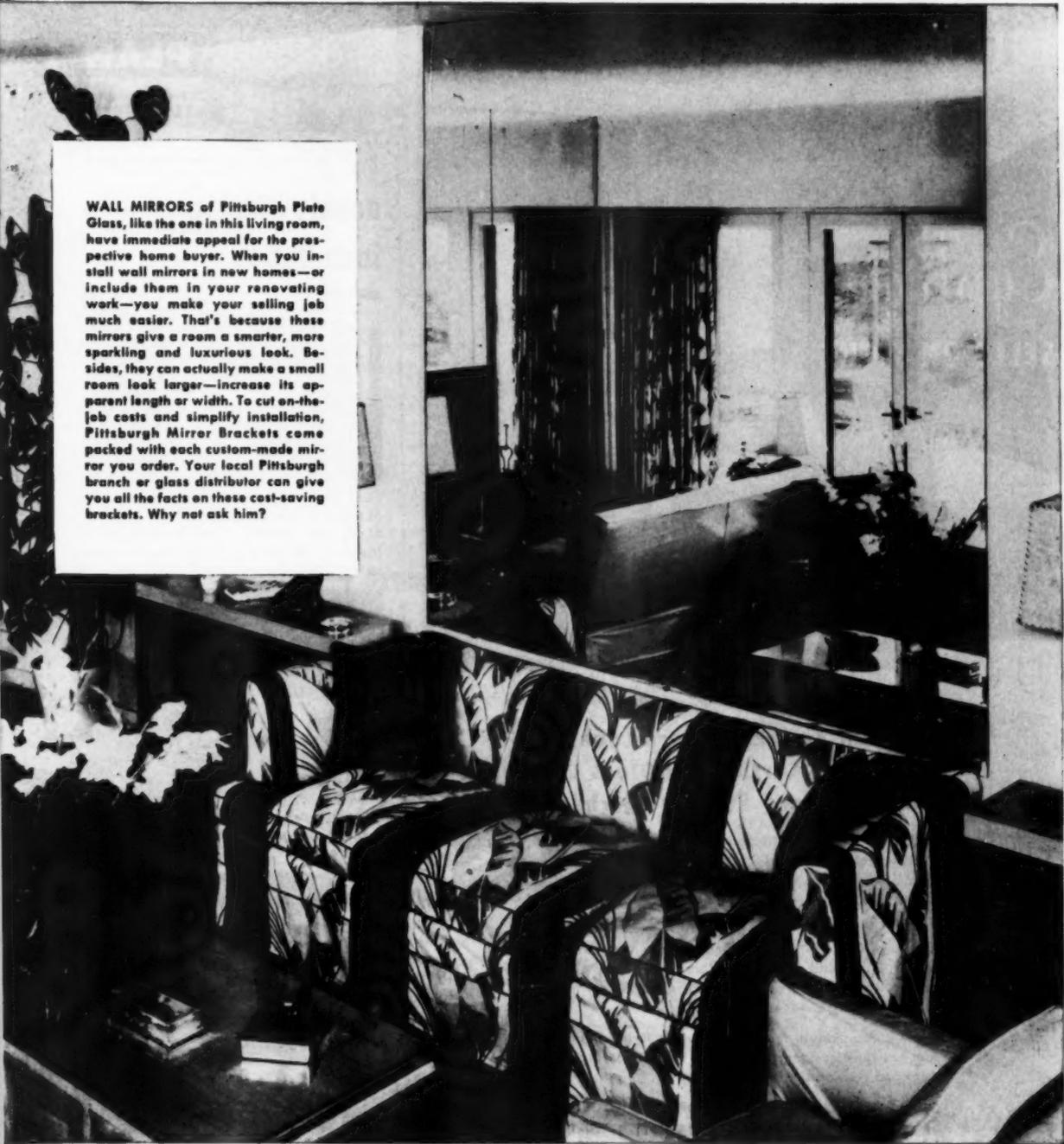


WINDOW WALLS are a much-wanted feature in the modern home. In many cases, too, they reduce building costs. When these walls are glazed with Solex-Twindow, unmatched comfort and greater enjoyment of the outdoors from within the home are offered the buyer. These units are made up of two panes of glass (see cutaway below). The outer pane is green-tint Solex, the inner is clear Plate Glass. Between them is a sealed-in air space. Thus, you combine the heat-absorbing, sun-glare-reducing properties of Solex, with the high insulating value of Twindow—"the window with built-in insulation." Handling and installation are safe, easy and quick, thanks to the stainless steel frame around the entire unit. Architect: Carl A. Strauss, Cincinnati, Ohio.

Every nickel you spend on glass shows. And the results always far outweigh the cost.



AMERICAN BUILDER



WALL MIRRORS of Pittsburgh Plate Glass, like the one in this living room, have immediate appeal for the prospective home buyer. When you install wall mirrors in new homes—or include them in your renovating work—you make your selling job much easier. That's because these mirrors give a room a smarter, more sparkling and luxurious look. Besides, they can actually make a small room look larger—increase its apparent length or width. To cut on-the-job costs and simplify installation, Pittsburgh Mirror Brackets come packed with each custom-made mirror you order. Your local Pittsburgh branch or glass distributor can give you all the facts on these cost-saving brackets. Why not ask him?

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

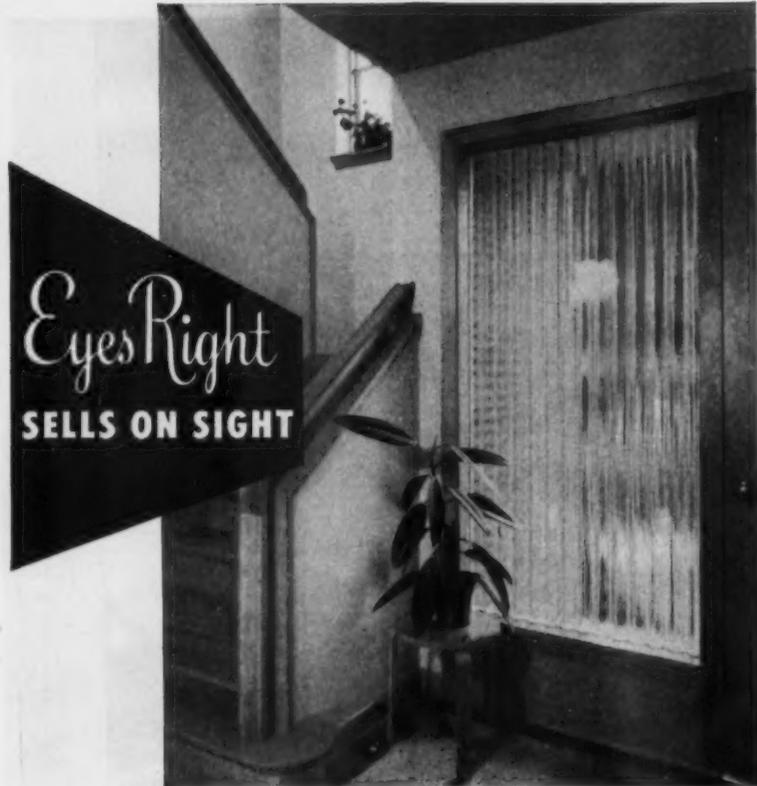


PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

APRIL 1953

379



Structural Corrugated glass installation at main entrance of L. M. residence in Seattle, Washington. Architect, Gerhard E. Korplus, New York City.

The Distinctive, Modern Look of Structural Corrugated Glass Catches Homes Buyers' Eyes Everywhere

A simple, effective partition of Structural Corrugated Glass by Mississippi has changed this from just another doorway into a grand entrance... it has created something unusual and desirable. And this is what today's home buyer wants. Something modern... something practical... something beautiful.

Structural Corrugated glass floods areas with softened, "borrowed light" that flatters interiors... makes rooms appear larger. It creates an air of distinction and luxury impossible to attain with any old-fashioned material.

Glass is the modern material... easy to install and maintain. And translucent, figured glass has tested sales appeal, it eyes right and sells on sight.

Give your homes that "different look" that buyers want. See your regular glass distributor or supplier for Mississippi Glass. Many patterns and surface finishes to choose from.

Write today for free booklets, "Modernize Your Home With Decorative Glass" and "Figured Glass by Mississippi." Photographs of actual residential and commercial installations. Many ideas on ways to use this new medium.



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WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS

380



double glazing installation



First step is to check window against size of window opening. Opening should be $\frac{1}{4}$ " larger on all sides than the double glazed unit



Next, use a good glazing compound, adequately worked. Never use putty, as it hardens, and unit no longer "floats" in the opening. Use elastic glazing compound.



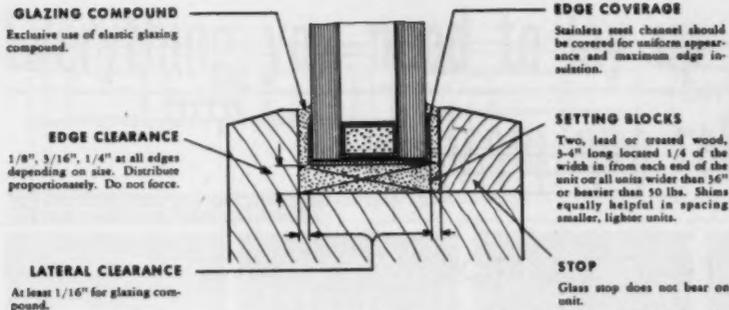
Third, place wood setting blocks $\frac{1}{4}$ " thick, 1" wide and 3" long in position shown. For 36" sash, setting blocks are in 9" from each end.



Pittsburgh Plate Glass Photo

Starting along side jamb of wood frame, apply glazing compound to the back or permanent glazing stop. Surround setting blocks but keep block tops clean.

AMERICAN BUILDER



pered plate glass is available in a wide range of colors, and may also be colored on one side for use in signs and lighted displays.

Patterned and Diffusing Glass

The use of obscure glass to prevent vision while admitting light is not new, but in recent years manufacturers of glass have come up with a wide range of attractive designs worked into the surface of both sheet and plate glass, either by pressing, etching, or

sandblasting. The size of the individual pane of glass and the amount of vibration which it will receive from walking or street traffic will govern the thickness of the glass to be used. If protection against breakage and fire, as well as privacy, are desired, a figured wire glass may be installed. Glare reduction and heat reduction are also built into various types of obscure glass for industrial and commercial purposes.

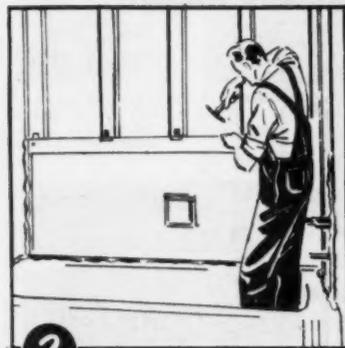
glass panels installed around bathtub



1 After tub has been levelled, place roll of mastic around rim for waterproofing. Also, butter studs with mastic before setting glass panels.



3 Do the same thing with the end panels. Let plasterboard extend beyond tub to next stud. If wainscot is 48" high, follow same sequence in setting second course.



2 Set the plate at the back of the tub first. Then merely nail through plasterboard flanges and use special clips supplied.



4 Clean glass and fill joints carefully with the pointing compound supplied. This assures a thorough waterproofing installation.

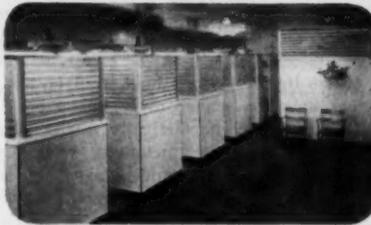
Courtesy Pittsburgh Plate Glass Co.

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Alsynite is the ideal translucent architectural material. Shatterproof, feather-light. Can be sawed and nailed, installs like corrugated metal. Economical. Seven colors, corrugated or flat. Use Alsynite anywhere and everywhere for brilliant new effects. See our brochure in Sweet's catalog.



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commercial... for store fronts, office partitions, luminous ceilings, decorative effects, signs.



industrial... for unlimited daylighting... skylights, side walls, etc. No framing needed.

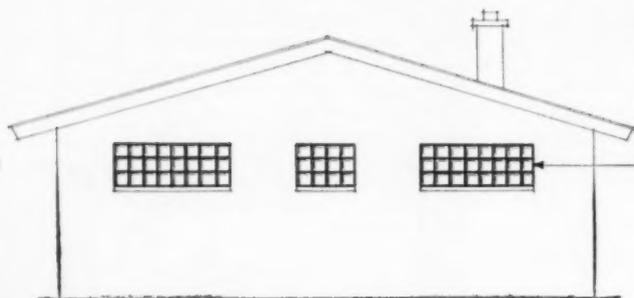
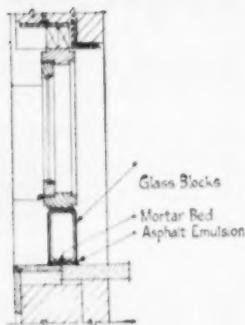
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FRONT ELEVATION

▪ RESIDENCE and GARAGE ▪



Glass Blocks

bathroom window

Double Glazing

Few modern homes are being built today without at least one large double-glazed picture window. A double-glazed unit is composed of two lights of glass held in place with a metallic spacer and rubber bond, making an hermetically sealed air space. In some instances, windows may be similarly triple glazed, and a few cases have had as many as five lights of glass separated by sealed air spaces.

Double-glazed units are available in approximately 50 standard sizes ranging from 35½ by 36 inches to 72 by 96 inches. When needed, special sizes may be obtained. Installation can best be accomplished by following closely manufacturer's instructions, which include roughly the following data:

- (1) Openings must be square, free of twists or glazing obstructions. Units should not be set in poorly constructed frames, inadequate to bear the weight of the sash (6 lbs. per sq. ft.), nor be of unseasoned lumber which might warp.
- (2) Sash must literally float in the opening.
- (3) Use of elastic glazing compound is recommended. Do not use putty.
- (4) Two lead or treated wood setting blocks as wide as the thickness of the unit are to be placed

GARAGE ELEVATION

one-fourth of the opening width from each end of the unit.

- (5) Place sufficient glazing compound on the back of glazing rabbet. This allows unit to be positioned, filling voids behind edge of glass.

Structural Glass

Structural glass was originally developed for sanitary purposes for washroom partitions and walls, but is now widely used also for store fronts and similar installations. Stronger and cheaper than either marble or tile, it is uniform in size, available in many different colors, and provides a permanent exterior surface of durability and beauty. It is not tempered, and may be cut, laminated, or otherwise worked in process of construction. It is also popular for bathrooms and kitchens.

Corrugated structural glass, a heavy cast or rolled glass, is available either clear or sandblasted, and may be obtained in two corrugations, one with waves one inch deep on 2½-inch centers, and the other ½ inch deep on 2½ inch centers. The former meshes with structural steel corrugated siding and may be installed along with corrugated steel in industrial buildings.

Architectural Glass

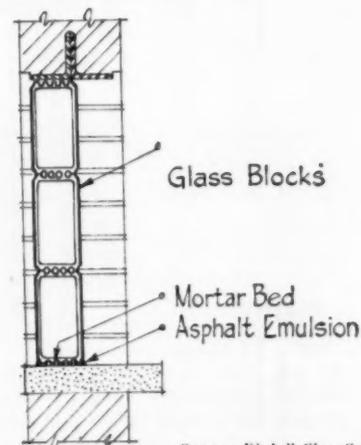
Architectural glass, as a special classification, is similar to obscure or patterned glass, but it includes as a

Courtesy Kimball Glass Co.



group those sheets or panels which have very deep corrugations or patterns and are frequently patterned on one side and flat on the other. Surface finishes may be clear, fire-polished, matte, mirrored, sand-fused; actual

garage window



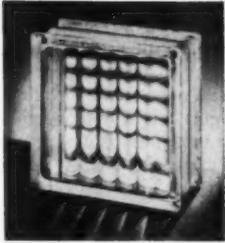
Courtesy Kimball Glass Co.

AMERICAN BUILDER

Everything you need to lay up PC GLASS BLOCKS

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DECORATIVE PATTERNS



ARGUS For decorative and lighting effects. Outer faces are smooth, inner surfaces have rounded flutes sealed at right angles to each other. Available in nominal 6, 8, and 12 inch squares and 6" and 8" corner and 8" radial patterns.

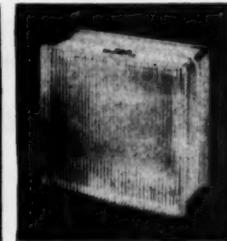
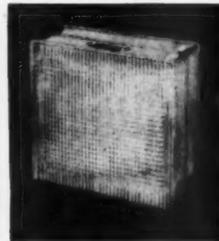
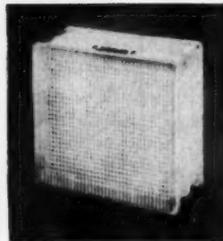
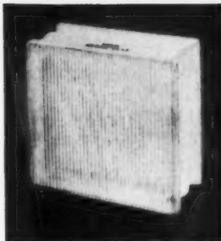
ARGUS PARALLEL FLUTES Same as Argus pattern except both sets of flutes are parallel. Available in nominal 6, 8, and 12 inch squares. 8-inch block also made with fibrous glass insert to further diffuse light and cut heat transmission.

DECORA Outer faces are smooth. Block is almost transparent. Can be tastefully combined with other block patterns. Available in nominal 6, 8, and 12-inch squares plus 8" radial and 6" and 8" corner styles.

SAXON Gives good light transmission with moderate diffusion. Used where privacy is important. Inner surfaces are lightly etched. Available in nominal 12-inch squares and 6-inch corner blocks only.

VUE Transparent pattern permits general vision beyond glass block panel. Often used as vision strips in standard block panels to avoid "shut in" feeling. Both faces are smooth. Available in nominal 8-inch squares and radial shapes.

FUNCTIONAL PATTERNS



SOFT-LITE BRISTOL 35 LX General purpose light diffusing block. Contains diffusing screen to soften light, provide extra insulation. Soft-Lite edge eliminates glare at edge of block. Available in nominal 8-inch squares only.

SOFT-LITE ESSEX B55 For general light diffusing or below eye level use in sunlit panels. Often used with Soft-Lite Prism B55. Available in nominal 12" (with fibrous glass insert) and in 8" size.

PRISM A55 For northern elevations where there is no sunlight. Used above eye level, throws light up to ceiling and to interior walls. Gives very good light transmission for critical seeing tasks. Available in nominal 8 and 12-inch squares.

SOFT-LITE PRISM B55 Light-directing block for above eye level in sunlit locations. Prisms throw light to ceiling and interior walls. Available in nominal 8 and 12 inch squares, larger size with fibrous glass screen insert.

BRISTOL 35 Light diffusing block for northern locations not exposed to direct sunlight. Provides moderate glare control while thoroughly diffusing light. Available in nominal 8-inch squares only. Often used with Prism A55 pattern.

ACCESSORY MATERIALS



WATERPROOFING COMPOUND Add to mortar when necessary to meet PC specifications.



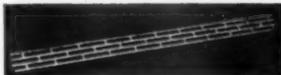
PC OAKUM For lateral cushioning and packing of panel edges.



PC ASPHALT EMULSION For waterproof joints on sills, and as an adhesive for expansion strips.



PC EXPANSION STRIPS
For side jams and heads of panels.



PC WALL ANCHORS
To anchor panel where permitted.



PC WALL TIES
For reinforcing panel.



RADIAL BLOCKS



Radial blocks are manufactured in 8" size and several patterns. They permit long curved wall sections.

CORNER BLOCKS



Corner blocks are made in 6" and 8" sizes and several patterns for neat corner treatment.

Pittsburgh Corning Corporation

PIITTSBURGH 22, PA.

Pittsburgh Corning Corporation
Dept. AO-43
Pittsburgh 22, Pa.

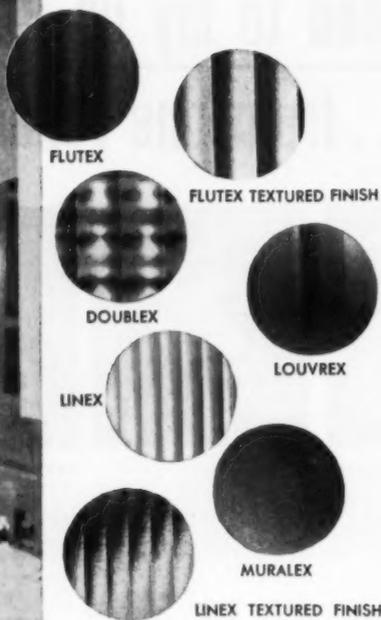
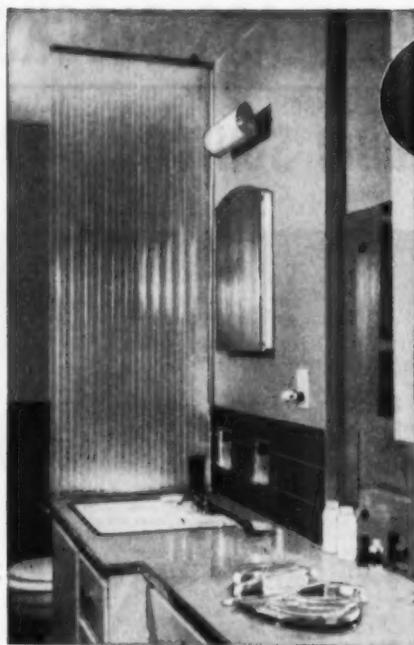
- Send complete 40 page catalog on PC Glass Blocks for industrial, commercial and public structures.
- Send 24 page catalog on PC Glass Blocks for residential construction.

Name Title

Firm

Address

City Zone State



GLASS PARTITION ... adds a lot for a little!

You know how prospects go for the extra little touches—like the panel of patterned glass in this bathroom. This glass provides privacy, but passes light through. Just a few feet of inexpensive glass—but it marks the house as different, appealing.

Many builders have used Blue Ridge *Patterned Glass* to give homes extra—and quicker—saleability. They've used panels by the entrance door—as a partial or full partition between rooms—as exterior glazing

where they want both daylight and privacy.

Blue Ridge *Patterned Glass* does double duty for you—for it decorates on both sides—and needs no finishing. It comes in a wide range of patterns. Shown here (quarter size) are just seven of the most popular patterns for homes. Your L·O·F Distributor or Dealer can show you samples of these and many more. Call him. And mail the coupon for our book of decorating ideas.



BOOK OF 42 DECORATING IDEAS. "New Adventures in Decorating" shows how leading architects and decorators have used this lovely glass to add light and distinction to home interiors. Send coupon for free copy.

BLUE RIDGE Patterned GLASS

Libbey-Owens-Ford Glass Company
Patterned & Wire Glass Sales
8-143 Nicholas Building, Toledo 3, Ohio

Please send me my free copy of "New Adventures in Decorating."

Name (please print) _____

Address _____

City _____ State _____

materials may be those of ordinary glass, Pyrex chemical-resistant glass, or colored in various hues.

Glass Block

Glass blocks are made of two sections, or lenses, fused together with a hollow, moisture-free chamber between. This dead air space makes an effective temperature barrier. Mortar edges are coated with a grit-bearing plastic coating to insure adherence to the mortar. Masons with ordinary tools can lay glass block without difficulty. In most installations it is necessary to use an expansion strip at jambs and heads of panels, plus a good grade non-hardening caulking compound around all joints. Wall ties and panel anchors may be used to tie the panel to the masonry wall and to anchor the panel to the jamb.

Blocks are available in a wide range of patterns and several standard sizes, including radial blocks and curved corner blocks. Some manufacturers are offering "prefabricated" panels of glass block, and one at least is marketing a complete window unit in steel frame with sliding vision strip at the bottom. Ventilator blocks with stainless steel or glass louvers are also available to provide ventilation in situations where a solid glass block wall panel is not desirable.

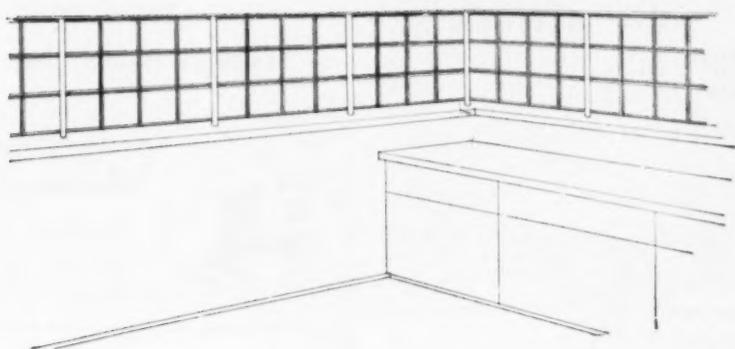
Mirrors

Mirrors are sometimes made of ordinary drawn sheet glass, but better grades utilize polished plate glass, with highly polished surfaces and backs of either silver, gold, or casting bronze. Maximum sizes of mirrors are governed by maximum sizes of plate glass. Copper back mirrors are made up to 86 by 168 inches.

GLAZING AND CAULKING COMPOUNDS

For glazing wood sash, it is recommended that whitening putty or whitening putty and white lead conforming to U.S.G.M. Spec. No. 283 be used. For glazing metal sash, use whitening putty with 5 per cent litharge or a metal sash elastic glazing compound. FHA specifications which call for whitening putty require a type consisting of finely powdered natural chalk, a minimum of pure tinting color, and pure raw linseed oil.

Elastic glazing compounds differ from ordinary putty chiefly in that specially treated oils are used so that the compound will remain elastic even under extreme conditions of vibration and exposure to the elements.

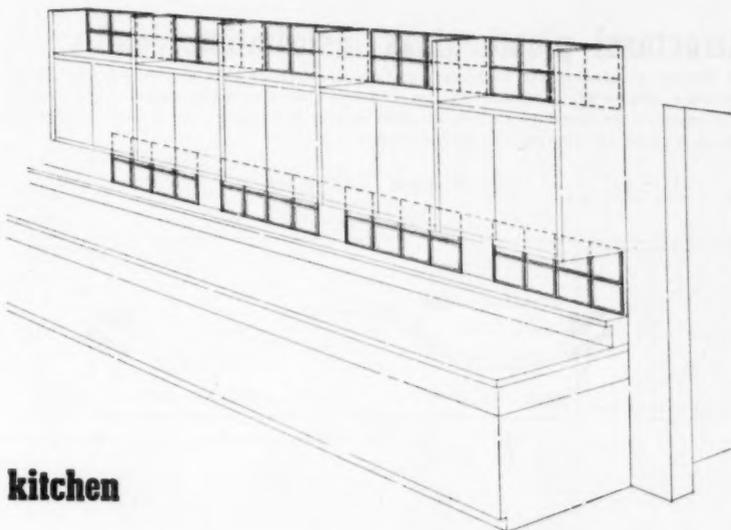


glass block detail plates

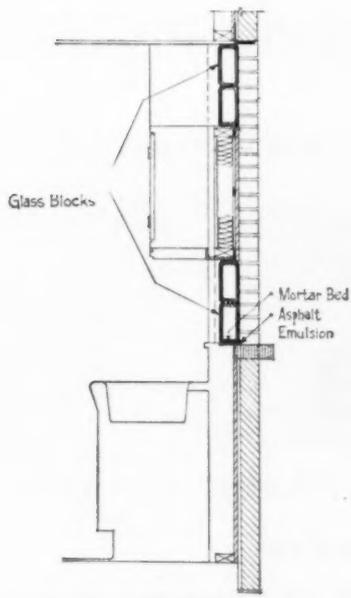


garage corner

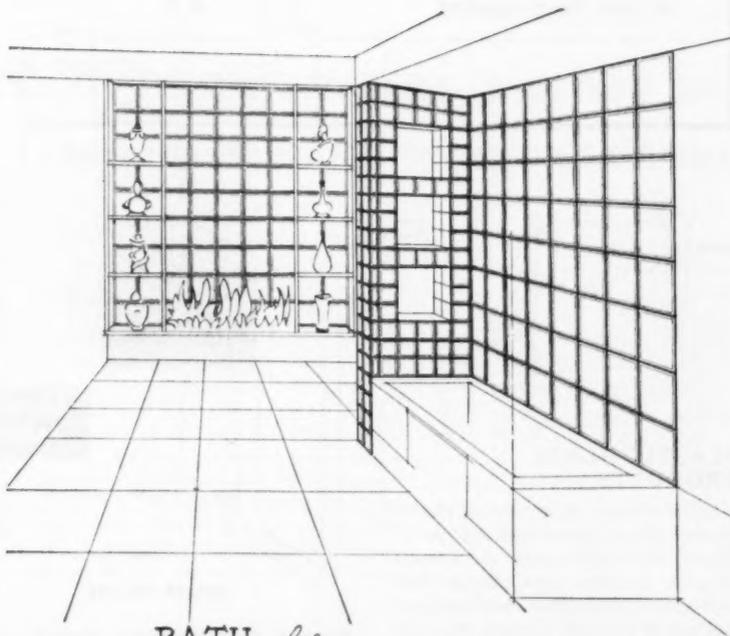
Litharge, which is lead oxide, is added to putty to make it set from the bottom rather than just skimming the top. White Lead and Whiting Putty consists of 10 per cent white lead with regular whiting putty. However, the trend today is definitely towards proprietary mastic glazing and caulking compounds. These are easy to use, are said to remain permanently elastic, are unaffected by heat and cold, do not harden in the container, and do not waste before being used, as is frequently the case with small amounts of unused putty. While many caulking compounds are made up for application by gun or from a tube, some also are made in pre-moulded strips for easy application by hand. Almost all are available in a wide range of tints to match wall surfaces.



kitchen



SECTION

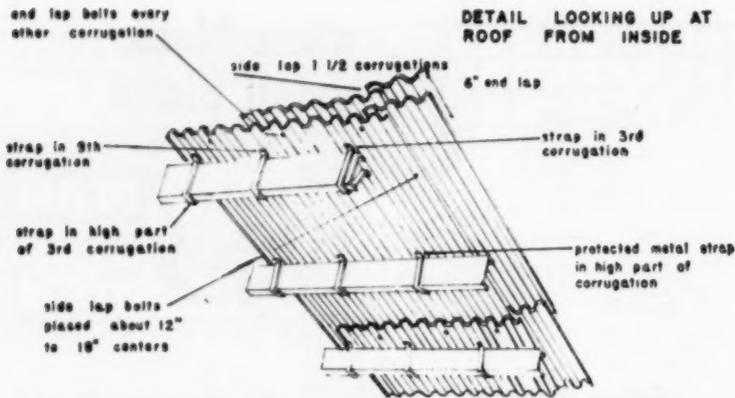


BATH for MASTER BEDROOM

kitchen

APRIL 1953

Courtesy Kimball Glass Co.

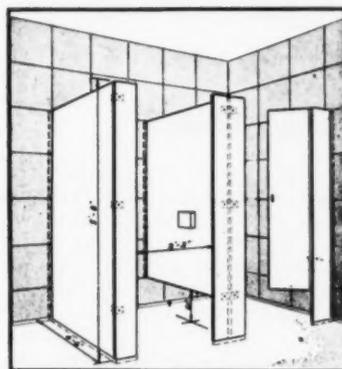
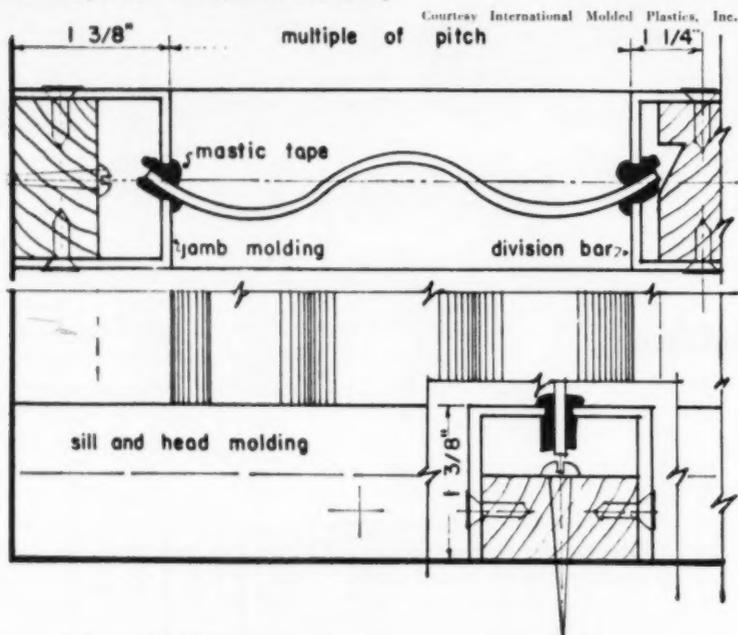


toilet room compartments for

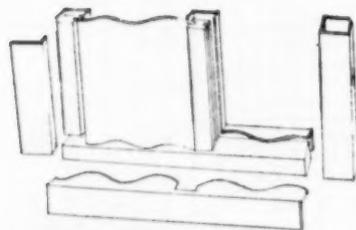
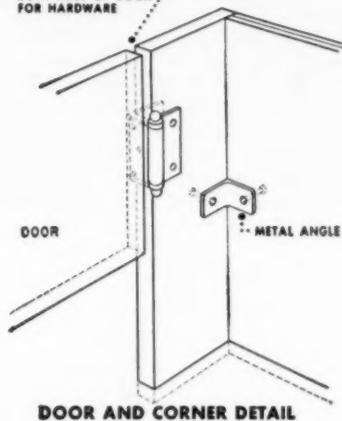


structural plastic-glass installation details

A number of glass-plastic building materials are available in corrugated form, both in white and in various pastel shades to harmonize with many decorating schemes. The material fits standard fixtures for floor and ceiling runners used with corrugated glass, may be cut, sawed, and nailed readily

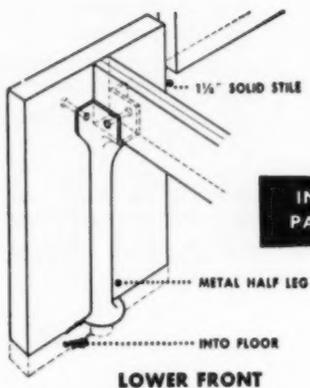


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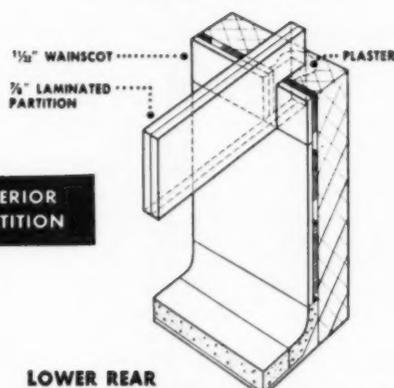


PLASTIC GLASS PRODUCTS

There are two main types of plastic glass products: those which are "pure" plastic, and those which are a combination of glass and plastic. The well-known "plexiglas" bombardier's lookout in military aircraft finds its civilian counterparts in roof hatches and skylights, in "blisters" which admit sunlight into modern ranch-type



LOWER FRONT



LOWER REAR

Structural glass, impervious to steam, moisture, acids, chemicals, grease, and pencil marks, makes effective partition material for toilets and shower rooms. Compartments illustrated here have over-all height of 5' 8". Walls may be large slabs instead of pattern

Courtesy Pittsburgh Plate Glass Co.



Installed in place of sash, Insulux Glass Block hides outside views and makes a sound, weather-tight, insulating wall.

Daylight Engineering WITH AVAILABLE GLASS BLOCK ENDS BASEMENT WINDOW PROBLEMS



A typical example of the millions of damaged or loose-fitting cellar sash that need replacement with Insulux Glass Block.

Here's a way to end forever complaints about broken or damaged basement windows! Use panels of Insulux Glass Block.

A panel of Insulux Glass Block makes a sound, weather-tight, insulating wall that lets in light but blocks out sight. It is extremely hard to break and it can't ever rust or rot.

Supplies of Insulux Glass Block and all the installation materials are non-critical and immediately available. Installation can be made at the time the mason puts in the foundation (the 8" sizes fit 8" concrete blocks perfectly) or as replacement for old-fashioned sash in houses already built. In

either case, installation is simple and easy . . . requires only ordinary mason's tools.

One Insulux Glass Block job in a home can lead to others. In fact, anyone who wants light but not sight is a customer for Insulux Glass Block. Applications are practically unlimited.

Get all the information about the many profitable glass block applications you can find in the average home. We'll be glad to send you complete details about this, and other, uses of Insulux Glass Block panels. Just write Insulux Glass Block Division, Kimble Glass Company, Dept. AB4, Box 1035, Toledo 1, Ohio.



KIMBLE GLASS COMPANY

Toledo 1, Ohio—Subsidiary of Owens-Illinois Glass Company

Sell COLOR, LINES, BEAUTY, with RESOLITE TRANSLUCENT PANELS

and treat your customers to the glamour of color and translucency . . . the economy of permanent finish . . . the safety of shatter-proof, crackproof glazing.

Home patios are beautiful and protected with a canopy of colorful, translucent Resolite — easily installed on metal or wood framing.



For decorative or utility partitioning in homes, office or shop, Resolite's wide variety of beautiful colors makes it the ideal paneling material. Amazing lighting effects are easily obtained because of its translucency. Its corrugations are useful in obtaining special effects of height or breadth.

Patio canopies of colorful translucent Resolite afford protection from sun and rain yet avoid the gloom of opaque coverings.

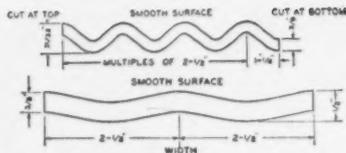
Resolite is made of polyester resins, reinforced for strength and rigidity with an interwoven mat of glass fibers. Resolite is unaffected by weather extremes of heat, cold or moisture. Resolite needs no surface treatment or refinishing; its colorful glossy surface easily wipes clean.



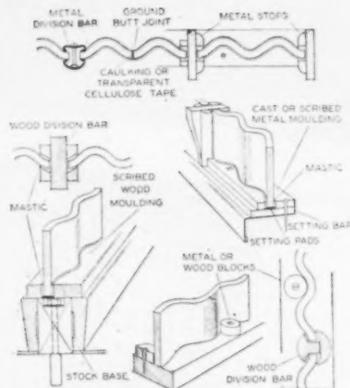
Shatterproof Resolite is durable and safe for partitioning in home or office. Color and corrugations adaptable to any decorative plan. Resolite needs no refinishing, easily wipes clean.

For complete information on Resolite, including sheet specifications, colors and installation methods, and name of your nearest distributor, write

RESOLITE
CORPORATION
P. O. BOX 508
ZELIENOPLE, PA.



DIMENSIONS of two of the types of corrugation that are available



SUGGESTED DETAILS for installing structural corrugated glass

homes, in shower screen installations, decorative interior panels and partitions of many kinds.

Among plastic and glass combinations are the familiar types of safety glass and more recent types developed to reduce shattering of glass. One popular plastic and glass material comes in a number of attractive colors, is frequently corrugated to correspond with the corrugations in metal sheet, and is used extensively in roof panels, siding, as awnings over doors and entrances, and on edge as interior partitions. It may be cut, sawed, and nailed and otherwise worked very much like wood. It does not shatter like glass, but has all of glass's normal heat-resistant and weather resistant quality. It is available with $2\frac{3}{8}$ inch corrugations in 8, 10 and 12 foot lengths and in widths from 26 to 40 inches, as well as in other sizes and in corrugations up to 4.2 inches.



CAULKING COMPOUND being applied around outside of window frame to insure weather-tightness



Red Cedar Shingle Bureau

Basic roof types are the gable, hip, hip and valley or intersecting gable, gambrel and flat roof. Roof sheathing supports the weight of the covering material, provides a nailing surface for it, braces the rafters and helps to keep interior warm.

ROOF SHEATHING

Sheathing can consist of boards laid squarely across the rafters in varying widths with edges tightly butted or matched. If desired, a diagonal treatment may be used for greater wind resistance.

Roof boards or slats under wood shingles should be not less than 3 inches wide by $\frac{3}{4}$ inches thick. Placing of slats should begin at eaves.

For asphalt or asbestos roofing, the deck should be carefully matched or shiplapped from eaves to ridge. All boards should be nailed twice at every support with 3d nails. Unless end-matched sheathing is used joints should be over rafters.



Plywood Roof Sheathing

Thicknesses of plywood roof decking vary with roof loads and rafter spacing. FHA accepts $\frac{5}{16}$ -inch plywood sheathing over rafters 16 inches O.C. under both wood and asphalt shingles. However, unless $\frac{1}{2}$ -inch plywood is used, wood shingles must be applied with nailing strips. Under certain conditions, if $\frac{1}{2}$ -inch is used, the rafters may be spaced 24 inches O.C.

Nail $\frac{5}{16}$ -, $\frac{3}{8}$ - and $\frac{1}{2}$ -inch plywood with 6d common nails not more than 6 inches apart at eaves or 12 inches elsewhere.



U. S. Gypsum Co.

Laying three-tab, square butt asphalt strip shingles with cutouts centered over tabs from course to course

ROOFING SHEATHING SIDING INSULATION

Roof Sheathing

Plywood Sheathing

Insulating Sheathing

Roofing

- Wood Shingles
- Asphalt Shingles and Roll Roofing
- Asbestos-Cement Shingles
- Flashings, Roof Valleys
- Corrugated Sheet
- Steel Roll Roofing
- Copper Roofing
- Built-up Roofing
- Slate and Tile Roofing
- Cedar Shakes

Sidewall Sheathing

- Wood
- Plywood
- Gypsum
- Insulating Board

Building Papers

- Asphalt
- Kraft
- Laminated
- Machine-finished

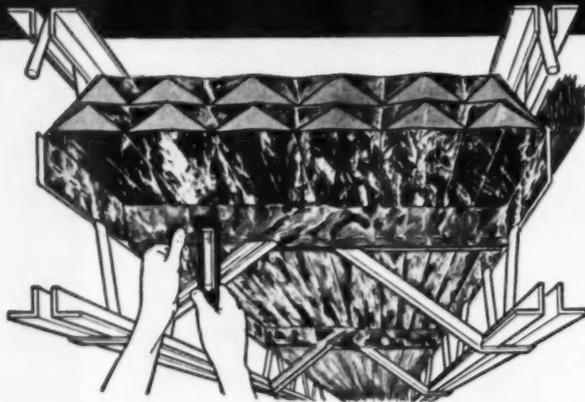
Siding

- Plywood
- Wood Siding
- Cedar Shakes
- Asbestos Cement Siding
- Shingles
- Aluminum Siding
- Insulated Siding

Types of Insulation

- Loose Fill
- Glass
- Blanket
- Batt
- Board
- Reflective
- Slab

for Steel Beam and Truss Problems of Heat Loss, Heat Intrusion & Condensation



**Costs 16¢
sq. ft., material
with labor!**

In Factories, Warehouses, Residences, Stores, Hospitals, Theatres, Markets, Arenas, Schools, Hangars, Gymnasiums

It is hard to keep these buildings warm in winter and cool in summer. Condensation sometimes forms, drips, causes damage. The problem is often solved by insulating with three tough, never-touching sheets of aluminum compartmented by two fiber partitions.

Steel beams are good conductors, extract much heat from the surrounding atmosphere, which causes a dew-point to be reached with resulting condensation. They need insulation against heat and vapor flow. Multiple accordion aluminum sheets are virtually non-condensation-forming, retain no moisture, have zero vapor permeability. Their heat emissivity on the cold side is 3%.

Contrast this with the necessity of heating-up tons of steel beams and ordinary insulation, sometimes wet, which wastefully radiate heat at a 90% rate on the cold side. In summer, iron and steel beams, ordinary insulations, and most building materials, often continue to radiate uncomfortable heat into a room long after the outside air has cooled.

Multiple accordion aluminum sheets are not only cooler at night, but through the hot summer day maintain temperatures which are sometimes 10 degrees to 20 degrees cooler than the shade outside.

A new form of pre-fabricated multiple accordion, very tough, aluminum insulation for steel beams and trusses is available as Infra 6HW, 1½" wider than standard, and heavier. A type 4HW, with 4 reflective spaces instead of 6, is also available.

The general question of preventing unwanted heat and vapor flow is authoritatively and interestingly discussed in Schwartz's "Simplified Physics of Vapor and Thermal Insulation." Steel and beam problems are included. For samples of the new insulation and copies of the manual, use the coupon.

Infra Insulation, Inc., 525 Broadway, New York, N. Y.
Telephone WOrth 4-2241

INFRA TYPE 6HW

Thermal Factors

Up-Heat	C.089, R 11.23	= 4 3/8" dry rockwool
Wall-Heat	C.073, R 13.69	= 5 5/8" dry rockwool
Down-Heat	C.044, R 22.72	= 9" dry rockwool

Exposed Aluminum .002" Thick
Bursting Strength 52 lbs. (Mullen Test)
Tearing Strength 80 grams (Elmendorf Test)

INFRA INSULATION, INC.
525 Broadway, N. Y., N. Y. Dept. B4

Please send FREE "Simplified Physics of Vapor and Thermal Insulation."

Name _____

Firm _____

Address _____

Send Prices

Send Infra 6HW Sample

BUILDERS!
 You can rely on these
2 GREAT PRODUCTS for
ECONOMY, RELIABILITY
and
FAST APPLICATION



proved on HUNDREDS OF THOUSANDS of jobs!
NEW CONSTRUCTION AND REMODELING

Sisalkraft for LIFELONG PROTECTION

against water—moisture—wind—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



6. For weather-tight sheathing

Sisalation for LIFELONG reflective insulation and vapor-barrier

Both surfaces coated with pure aluminum



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.

For floors
 Applied under or between floor joists, SISALATION provides both insulation and moisture protection ... at a single low application cost.

Sisalation Plus
 Sisalation Plus provides complete protection

1. Against wood rotting
2. Against paint peeling
3. Against draft and dew
4. Against heat loss in winter
5. Against heat gain in summer

AVAILABLE at LUMBER and BUILDING SUPPLY DEALERS EVERYWHERE

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.

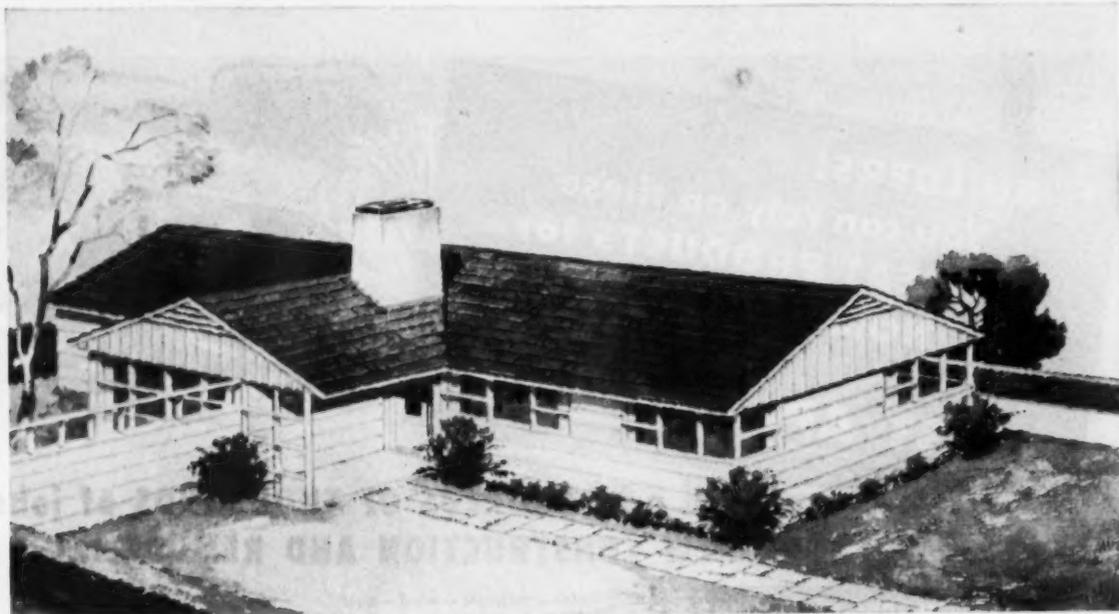
Write Dept. AB-4 for information and samples.



THE SISALKRAFT CO. 205 West Wacker Drive, Chicago 6, Ill.

New York 17, N. Y.

San Francisco 5, Calif.

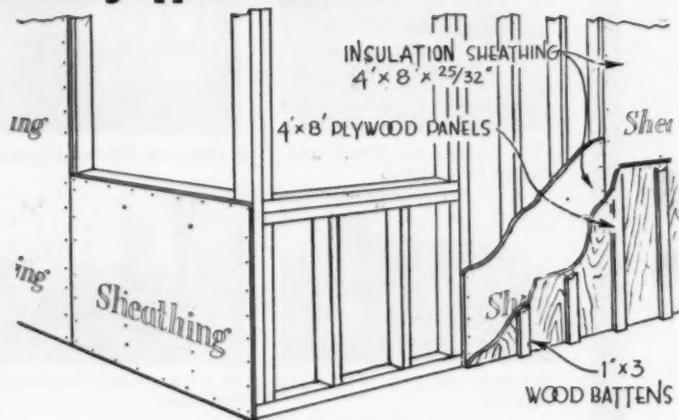


Hardboard siding provides wide laps, clean-cut shadow lines . . .

Masonite Corp.



sheathing applications . . .



PLYWOOD
BOARD & BATTEN

Armstrong Cork Co.

Wood fiber insulating sheathing with a plywood simulated "board and batten" type exterior is detailed above. Anchor holds brick to frame in brick veneer application below . . .

Insulating Sheathing

Roof sheathing materials which combine insulating qualities are produced in panels up to 8x14-feet. These require fewer handlings and nailings than materials of smaller size. Asphalt or asbestos shingles can be applied directly to such sheathing with furring strips 12 inches O.C.; for wood shingles, furring strips are nailed to rafters at centers required by shingle size.

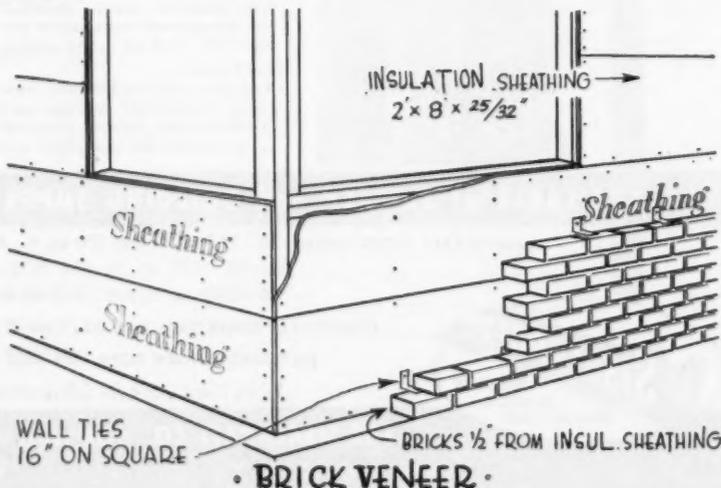
ROOFING

The most common roofing types are shingles made of wood, of a mixture of felt and asphalt covered with crushed slate, or of combinations of asbestos and cement.

Wood Shingles

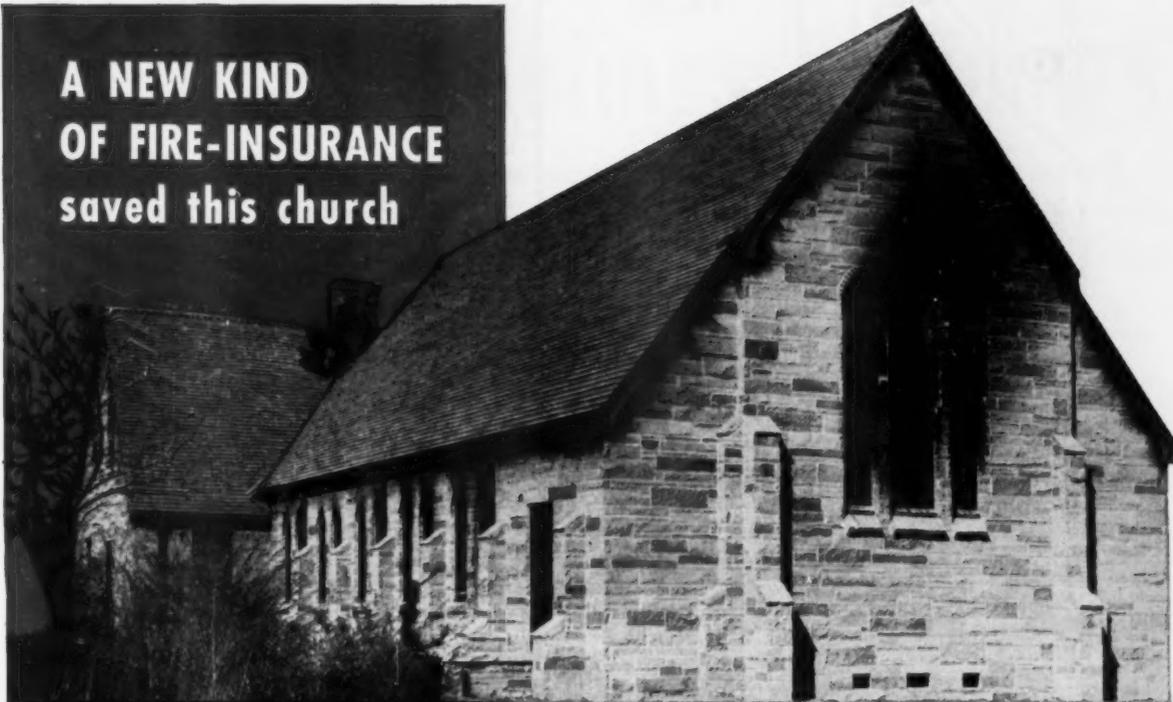
Wood shingles may be nailed over 1x3-inch or 1x4-inch strips, spaced the same distance as the shingles are exposed to the weather; or nailed on a tight deck of square-edged or matched boards. Joints between shingles in any one course should be at least 1 1/4 inches from joints in next course below to keep driving rain from penetrating underneath. Shingles in each course should be spaced not less than 1/8-inch apart.

The type of nail used is important because ordinary iron shingle nails will rust and loosen the wood shingle before the shingle needs replace-



• BRICK VENEER •

**A NEW KIND
OF FIRE-INSURANCE
saved this church**



CAREY FIRE-CHEX SHINGLES

With interior gutted by fire, this church at Rose Hill, N. C. still stands—a tribute to the amazing fire-resistance of Carey Fire-Chex Shingles!

Despite intense heat and flames which gutted the interior of the Mt. Zion Presbyterian Church at Rose Hill, N. C., the Carey Fire-Chex roof remained virtually intact! Even when a section of the roof collapsed after supporting members burned through, Carey Fire-Chex shingles *prevented spread* of fire to adjacent roof areas and certain destruction of the entire building!

Carey Fire-Chex, made of a new, patented asbestos-plastic, are the first and only shingles ever to win Underwriters' Laboratories, Inc. highest fire-protective rating—CLASS A*. And, in addition to unequalled fire safety, Fire-Chex also offer longer life, greater beauty. Made extra-thick (weight 325# per sq.) for extra wind and weather protection, Fire-Chex feature new shadow-blend beauty—create roof designs copyrighted as works of art.

Give your clients the priceless fire protection, rich beauty and long, maintenance-free performance of Carey Fire-Chex Shingles. See your Carey dealer—or write *now* for illustrated literature!

*Without asbestos underlayment

Rose Hill, N. C. Officials

Praise Carey Fire-Chex Shingles!

Excerpts from sworn statements by Chairman of Mt. Zion Building Committee and Rose Hill, N. C. Fire Chief—

"Owing to the fire-resistant quality of the (Carey) shingles, the fire was held in check for three hours. I have no hesitancy in saying quite frankly that all of us attribute the saving of our buildings . . . to your very fine shingle."

W. D. Cerwing

Chm., Bldg. Comm.
Mt. Zion Presb. Church

"It is a pleasure for me to recommend your shingle, from the standpoint of fire-resistance, without any reservation. The evidence in this particular fire speaks for itself."

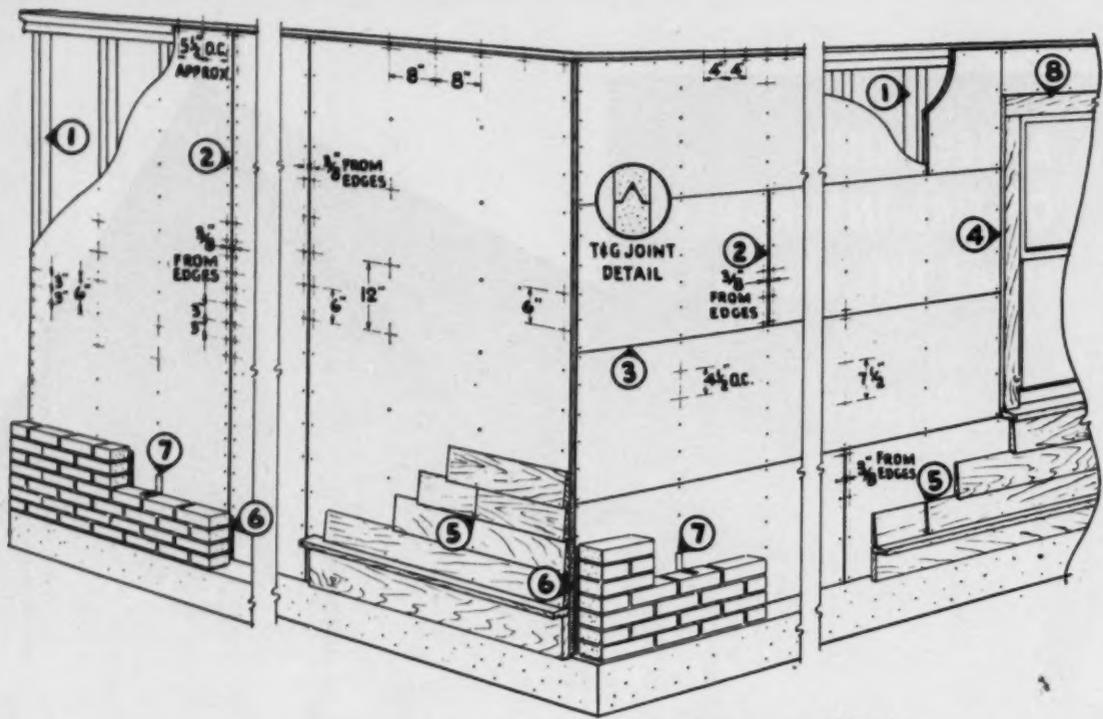
H. B. Linnell, Chief
Rose Hill Volunteer F.D.

FROM THE HOUSE OF CAREY
Bathroom Cabinets and Accessories • Ventilating Fans • Coramo Asbestos Siding • Corrugated Asbestos Cement Siding • Fire-Guard Rock Wool Insulation • Fire-Chex Asbestos-Plastic Shingles • Other famous products for home, farm and industry.

Carey

The Philip Carey Mfg. Company, Lockland, Cincinnati 15, Ohio

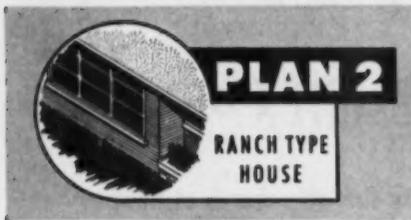
Dept. AB-4



Celotex Corp.

siding with insulating sheathing . . .

Step by step erection of insulating sheathing: (1) Erect framing 16 inches O.C. for 1/2-inch and 25/32-inch sheathing. (2) Allow 1/4-inch space between adjoining big boards and center matched sheathing. (3) Apply center matched sheathing with tongue up. Join t&g joints securely; stagger end joints in successive courses. (4) For snug window and door frame joints, make contact close. (5) Wood siding ends should fall at center lines of studs. (6) Minimum air space between masonry and sheathing: 1/2-inch. (7) Under masonry use non-corrosive metal ties at rate of one per 160-260 square inches of wall area; 1-inch nail penetration through sheathing into studs. (8) Use sheet metal or flashing over head casings of windows and doors . . .



ment. Hot-dipped, galvanized nails are recommended. A round nail with blunted three-cornered point is well suited for putting on shingles as it is less likely to split the wood.

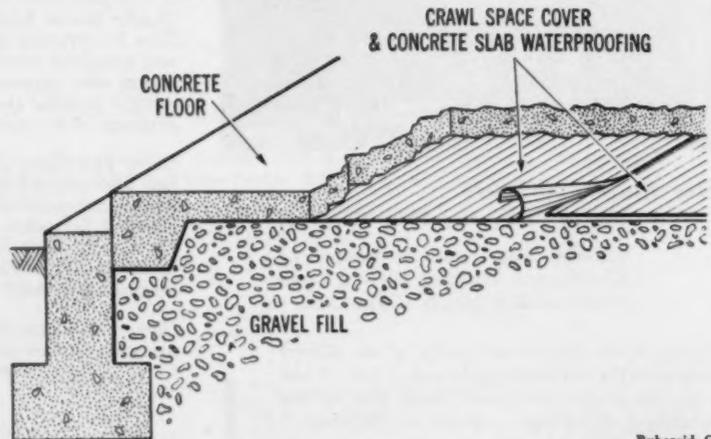
Asphalt Roofing

In applying asphalt roofing when old roofs remain in place, removal of the old covering generally is not necessary if (1) the deck and framing are strong enough to support workers and new roofing, snow and wind loads; (2) the deck will give good anchorage for nails. In high wind areas shingles at eaves and rakes should be cut back far enough to allow application of 1-inch wood strips 4 to 6 inches wide.

To prepare old asphalt shingles for new asphalt roofing, nail down or cut away loose, curled or lifted shingles; remove loose and protruding nails and badly worn edging strips, and replace with new ones.

In preparing old roll roofing, slit buckled sections and nail the pieces down smoothly; also remove loose and protruding nails. If parts of the deck are exposed, examine these areas for loose or pitchy knots and excessively resinous places. Cover such defects with sheet metal.

waterproofing membrane . . .



Ruberoid Co.

Top of gravel is covered with layer of asphalt material lapped at least two inches. Full area of lapped edges is coated thoroughly with cement and pressed together. Material is also designed for use as crawl space cover

If old roofing must be removed, repair and clean framing to make it level and strong. With old slotted decks, fill in all spaces between boards with securely nailed wood strips of same thickness as original boards.

Asbestos-Cement Shingles

The interlocking design of asbestos-cement shingles permits concealed nailing.

These shingles come in strips, are self-aligning and self-spacing. (Continued on page 401)

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.
----	---	----------

THREE TAB Hexagonal

Plain and Grained Surface

11 1/4" x 36"



86	2	167 lbs.
----	---	----------

UNIVERSAL

Plain Surface



16" x 18" — 4" sidelap

80	2	138 lbs.
----	---	----------

FRENCH LOCK

Plain Surface



16" x 16" — 2 3/4" sidelap (furnished with staples)

82	2	140 lbs.
----	---	----------

SAF-T-LOK

Grained Surface

Single Coverage



18 3/4" x 20 3/4" — 2" sidelap

96	3	170 lbs.
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Double Coverage

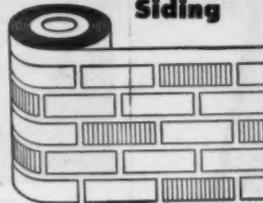


18 3/4" x 20 3/4" — 4" Sidelap

120	3	230 lbs.
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JUMBO DUTCH LAP (plain surface) 12" x 18" — 3" sidelap	112	2	162 lbs.
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ROLL BRICK-TEX Siding

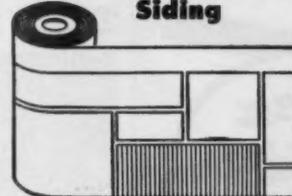


Specifications

Strip Per Roll	Size Per Strip	Wt. Per Roll
2	16" x 42"	105 lbs.

Black Mortar Lines
Matching Soldier
Course and
Corner Strips Available

ROLL STONE DESIGN Siding



Specifications

Strip Per Roll	Size Per Strip	Wt. Per Roll
2 4	16" x 43" 3"	105 lbs.

Black Mortar Lines
Matching Corner Strips
Available

WAVE LINE Siding Shingle

Grained Surface

10 3/4" x 32"



Specifications

Slabs Per Sq.	Bdls. Per Sq.	Wt. Per Sq.
50	1	105 lbs.

Insulating Sidings available at York, Pa. and Chicago, Ill.

MINERAL SURFACED ROLL ROOFINGS

Certain-teed 90 lb.
Certain-teed 19 in. Selvage Edge Roofing
Certain-teed Blockedge Grained
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.



Certain-teed

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Quality made Certain... Satisfaction Guaranteed

CERTAIN-TEED PRODUCTS CORPORATION

ARDMORE, PENNSYLVANIA

ASPHALT ROOFING • SHINGLES • SIDINGS
GYPSUM PLASTER • LATH • WALLBOARD • ROOF DECKS
ACOUSTICAL TILE INSULATION FIBERBOARD

Let
the
RICH-TRIPLETS
work for you!

Richkraft

Only Richkraft brings you a complete line of building papers which permits for use of the right paper for every job. There's *Shuf-* *prof* heavy duty, fully reinforced, plasticized and waterproof; *Medium* reinforced, plain Kraft, Duplex 30, a low-cost Duplex. And, last but not least, Richkraft Black Sheathing papers. There is a Richkraft paper to meet every job requirement and economy. Ask for details.

Richflex

Richflex Reflective Insulation makes insulation an easy matter in keeping with job economy. With Richflex you do a 4 in. summer heat out, create a moisture barrier, and a cold air barrier. Richflex turns back more than 75% of the heat rays striking it. Use Richflex in side walls and in floors. Richflex in ceilings will cut temperatures by 15° by preventing thick insulation from storing sun heat during summer months. Ask for details.

Richbead

Richbead brings the protection of metal to both exterior and interior corners for new and existing homes. It eliminates banged up corners at doorways, arches, reveals and soffits and it covers cracks caused by settling in interior corners.

Richbead consists of a metal angle glued to joint tape and it can be installed by anyone. Richbead allows great savings by the elimination of casings around doors and windows and it means a real saving in time because it does away with tory corners and permits the of any piece of wall board. Ask for details.

ANOTHER
Richkraft

PRODUCT

THE RICHKRAFT COMPANY

310 N. Dearborn St., Chicago 10, Ill.

Gentlemen:

Please send me complete details on:

Richkraft Reinforced and Breather Papers

Richflex Reflective Insulation

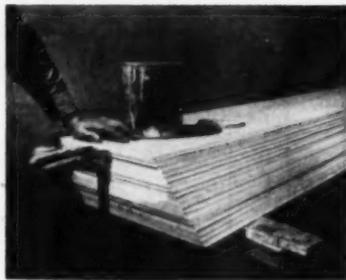
Richbead for dry wall corner protection

NAME _____

ADDRESS _____

TOWN _____ ZONE _____ STATE _____

how to apply
wide-lapped
plywood siding . . .



Panels are ripped to 16-inch widths, beveled with tilting saw to provide drip edge. Panel edges should be sealed (above) with heavy application of high grade house primer, aluminum paint, or heavy lead and oil paint



For deep shadow line, nail strip of plywood or 3/8-inch furring strip along top edge of each course and (below):



Place shingles over studs where the ends of panels will butt



Douglas Fir Plywood Assn.

Next course of siding goes over furring strip and shingles, with end lying over shingle and stud

For faster . . .
easier . . . better
tacking . . .



DUO-FAST One Hand
Automatic Tackers



Hammer Tackers
and Gun Tackers
for all your
Tacking Jobs

DUO-FAST AUTOMATIC TACKERS are widely used in home construction work, for tacking insulation, building papers, ceiling tile, metal lath. They provide the fastest, easiest, and best way to do the work.

FREE SERVICE—Duo-Fast Tackers are serviced without charge. An important money-saving feature.

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Ceiling Tile

Insulation

Screen Wire

FASTENER CORP.

860 FLETCHER ST., CHICAGO 14, ILL.

**ASBESTOS
SIDING
NAILS**



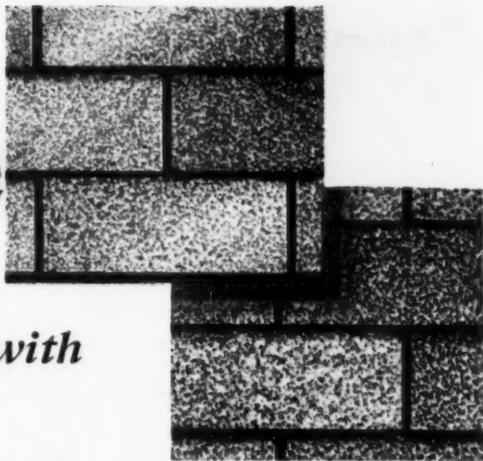
Hassall threaded asbestos siding nails are the choice of contractors throughout the country. Made of bronze and steel with plated finish. Note threaded shank which guarantees maximum holding power. Made of #14 gauge wire (.082) in 1", 1 1/8", 1 1/2", 1 3/4" lengths. Advise quantities. Prompt shipment.

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Brooklyn 22, N. Y.
Established 1850

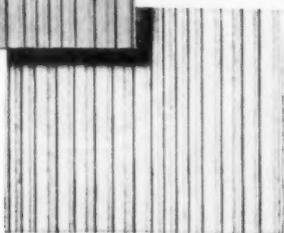
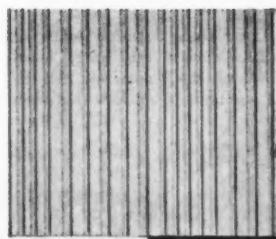


AMERICAN BUILDER



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FLINTKOTE

COLOR



Put new life into homes!
Recommend colorful **FLINTKOTE**
roofing, sidings and
decorative interior board!

Are you taking advantage of the recent swing to color?

Everybody wants color . . . for modern, new construction, and for modernizing existing houses.

And we have just what they want.

Flintkote . . . *style leader of roofing for the building industry* . . . anticipating the trend, offers a wide variety of practical, pleasing colors and blends in asphalt shingles.

Also . . . popular, beautiful Flintkote Stri-Color* Asbestos-Cement Sidings have virtually revolutionized the siding industry. They have handsome, new colors for monotone or two-tone effects, or for combination with stone, brick, stucco, etc., and the famous DURA-SHIELD* water repellent, stain-resistant protective finish.

And . . . lovely new colors enhance our always popular line of Decorative Insulation Board and Tile. Use it to brighten up game rooms, attic bedrooms, libraries, etc. . . and to hide unsightly walls and ceilings.

Get more color into your new and re-modeling jobs. You'll find it pays off well in profits and customer satisfaction.

May we send you illustrated literature?

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30 Rockefeller Plaza, New York 20, N. Y.

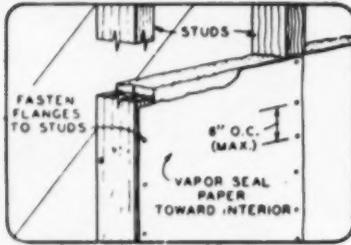
*A trademark of The Flintkote Company

FLINTKOTE



...Style and Color Leader since 1901

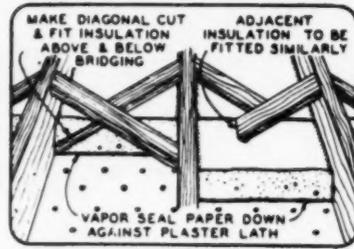
SIDEWALLS



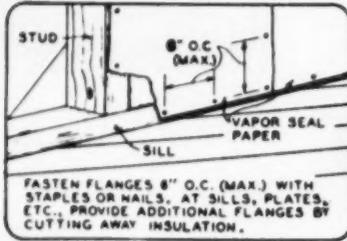
CUTTING



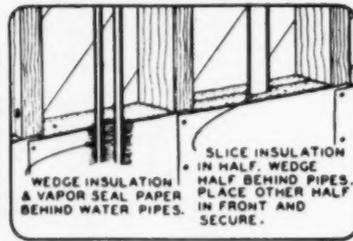
CEILING JOISTS (OVER HEATED AREAS)



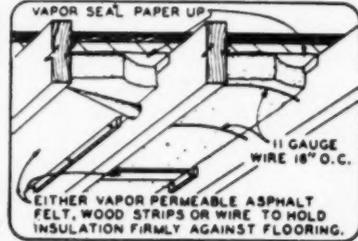
FASTENING



AROUND PIPES



CEILING JOISTS (OVER UNHEATED AREAS)



National Mineral Wool Assn.



PLAN 3

TWO STORY HOUSE

mineral wool details . . .

Mineral wool batt or blanket insulation for Plan 3 house: all exposed walls from foundation sill to exposed first or second floor ceilings, including junction walls of garage and house: 3-inch thick material. Entire second floor ceiling, rear entry, lavatory and recessed front entry ceilings of first floor: 3½-inch thick material. All insulating material should be fitted together to provide continuous surface between studs or joists

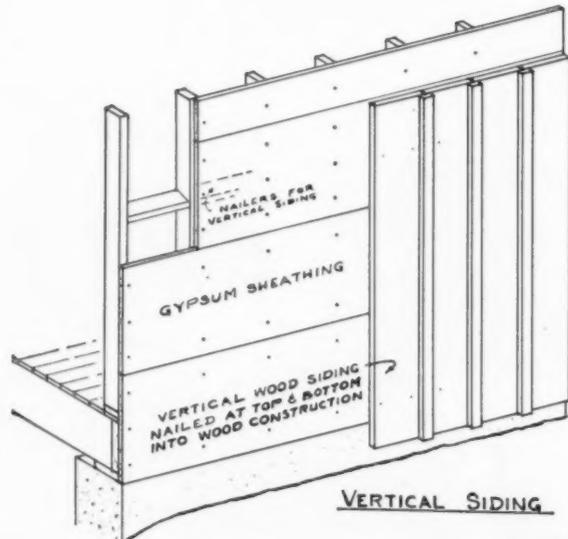
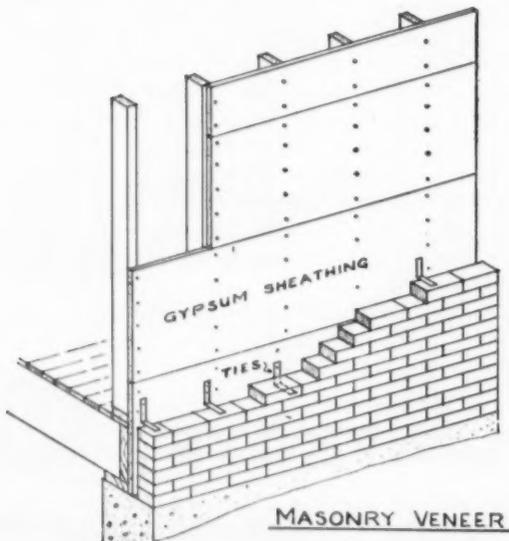
gypsum sheathing applications . . .

Gypsum sheathing is applied horizontally in 2-foot by 8-inch wide sheets with 11-gauge, galvanized large-head roofing nails 1¾ inches long. Nails are spaced 8 inches on center under wood siding and other exteriors nailed through sheathing on wood framing; 4 inches on center under other exteriors such as masonry. Where gypsum siding is used, all openings should be of depth for ½-inch sheathing



PLAN 4

LUXURY RANCH TYPE HOUSE



Perma Products

Offer your customers these 5 leaders
for **FASTER, BETTER PROFITS**

Shakertown GLUMAC Units



The modern, time-saving way to apply weathertight cedar shake sidewalls. Save up to 70% in application costs. Unit consists of famous Shakertown Sidewalls electronically bonded to waterproof backer board. Only 22 pieces cover 100 sq. ft. at 14" exposure. Packed 11 units per carton. A quality product priced for today's market.

SHAKERTOWN SIDEWALLS



America's most-imitated sidewall material. Finest quality Certigrade shakes with deep-grooved surface, color-treated and machine brushed for uniform quality and appearance. Nine architect-selected colors to blend with any design or structural material, for new construction or remodeling. Over 30 years of outstanding reliability. Carton protected; packed one half square per carton.

PERMA- STAIN for Shingles



Especially formulated for cedar shingles and shakes. Brings out the natural beauty of wood texture; adds years of service life. Has balanced capacity to penetrate for preservation and cover for beauty and protection. Smooth, even flow to the touch of the brush — saves labor cost, speeds application. Nine popular colors.

PERMA-STAIN SHINGLES



The standard of quality in smooth-surfaced cedar shingles for roofs and sidewalls. Color-treated with a balanced blending of finest pigments and oils. Combining modern styling and beauty with extreme long life, light weight and extra insulating properties. Ideal for re-styling and modernizing. In eight standard colors and prime white. Packed four cartons per square at standard roof exposure.

JIFFY CORNERS



New, lifetime, metal corners to protect cedar shingles and shakes. Concealed spring clip at base holds metal corner tight against wood surface. Pre-drilled nail holes permit quick, simple installation. Eliminate lacing, jointing, time-wasting fitting. Speeds construction. Adds protection. Improves finished sidewall appearance. Packed one gross per carton.

*Write Today for folders, samples
and complete information.*

The **PERMA**
PRODUCTS Company



5455 BROADWAY AVE. CLEVELAND 27, OHIO

Buyers find all they want in

"Century" NU-GRAIN asbestos-cement siding shingles

"CENTURY" sided homes give *more* than full measure! These tough, durable shingles combine the appearance of old-fashioned split wood shingles and the lasting qualities of stone. They are virtually maintenance-free, and never need protective paint. They won't burn, rot, or rust —or tempt termites.

And home buyers and remodelers are really enthusiastic about the three attractive, lasting colors in which NU-GRAIN shingles are made: NU-GRAIN Brown, NU-GRAIN Gray, and NU-GRAIN Green (illustrated). When the shingles are applied, the vertical joints between them disappear in the continuous grain pattern, and their straight-butt shadow lines are clear and pronounced.

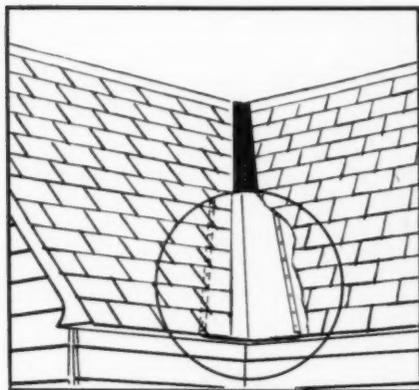
Home-conscious people by the millions have seen and admired "Century" NU-GRAIN shingles on actual homes and in K&M advertisements (in color) in *Better Homes & Gardens* magazine. Get the complete story from your K&M Distributor or write directly to us.



Nature made Asbestos . . .
Keasbey & Mattison has made it
serve mankind since 1873

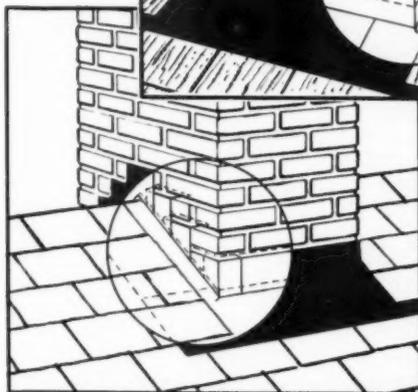
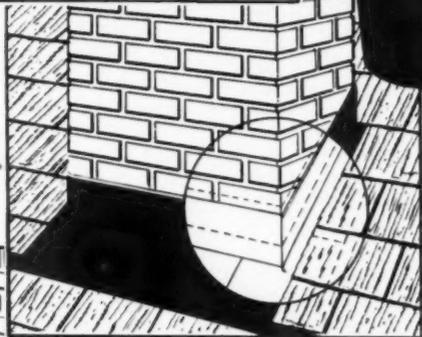
America's first maker of asbestos-cement shingles

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA



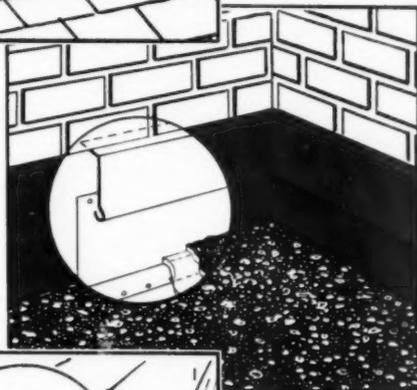
▲ VALLEYS

CONTINUOUS CHIMNEY FLASHINGS

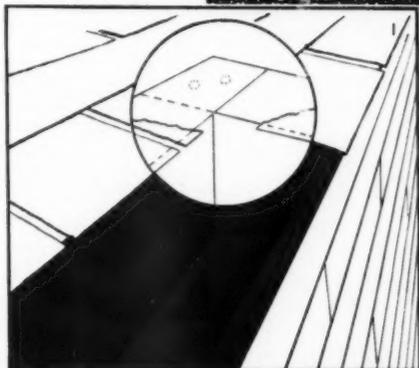


◀ STEP CHIMNEY FLASHINGS

WALL OR PARAPET FLASHINGS



BUILT-IN GUTTERS



SEE OUR
CATALOGS IN
SWEET'S
ARCHITECTURAL
AND LIGHT
CONSTRUCTION
FILES

Don't be satisfied with a substitute when you ask for "valley tin". Insist on the original "valley tin" **FOLLANSBEE Seamless Terne Metal**

WHAT IS TERNE METAL

FOLLANSBEE SEAMLESS TERNE METAL, which is the original "Valley Tin", consists of copper-bearing steel strip coated with a lead-tin alloy. In addition to its use in valleys, Terne Metal is also widely used today for all types of flashings, for gutters and gravel stops, for copings and canopies, and anywhere else metal is used on all types of roofs, such as built-up, asphalt or asbestos shingle, tar-and-gravel, slate, or tile.

COATINGS, GAGES, WIDTHS

Terne Metal is available in 50-foot continuous rolls, free of unsightly and costly cross seams, in 40 lb., 20 lb., and 8 lb. coatings, in IC and IX gages, and in widths of 4", 6", 7", 8", 10", 12", 14", 20", 24" and 28". It is supplied unpainted, painted one side, or painted two sides, as desired, and this mill-applied coat of paint doesn't interfere with soldering.

PHYSICAL CHARACTERISTICS

When weathersealing with Terne Metal, there is no need for expansion allowances or joints, for Terne expands and contracts only 0.2195" in 30 lineal feet for a 100°F. temperature change. Terne Metal is tough enough to absorb and withstand these slight changes, for it has the tensile strength of steel—45,000 lbs. per sq. in.

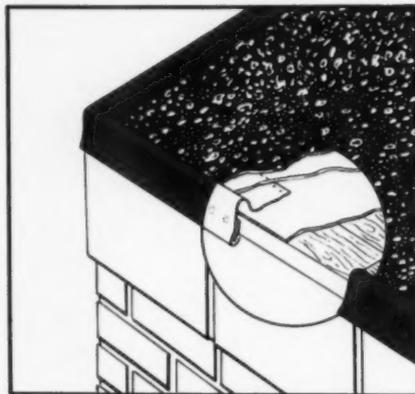
The Terne Metal weathersealing may be painted immediately after installation, for there is no need for weathering to condition it for the paint. The weathersealing may be painted any color, to match or harmonize with the color of the roof, or with the exterior trim of the structure.

IDEAL WEATHERSEALING

To sum up, Follansbee Terne Metal is flexible in its application as weathersealing; it comes in a large variety of widths for any purpose; it has a low expansion and contraction rate; it has the rugged strength of steel; the coating does not flake or peel off; it resists tearing in installation; it is fire-resistant, for it is all metal, with nothing to burn; and it has a low maintenance cost, only an occasional painting. All these features add up to a completely satisfactory weathersealing material.

Box Ternes are still available on special order if desired.

Pre-cut Terne Metal flashing shingles, 5" x 7", painted two sides, can be supplied in packages of 100.

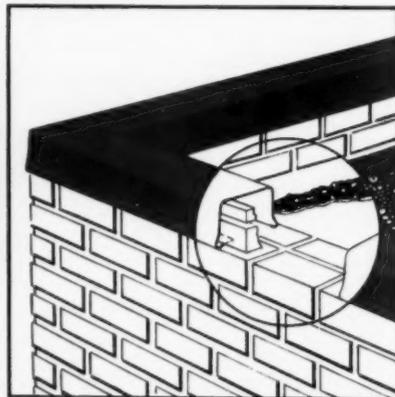
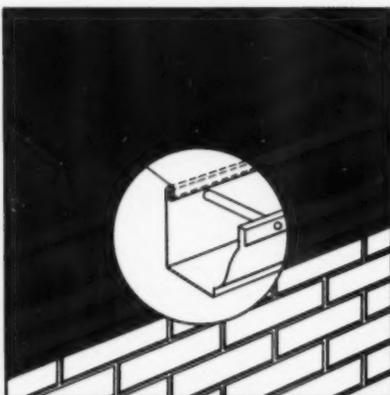
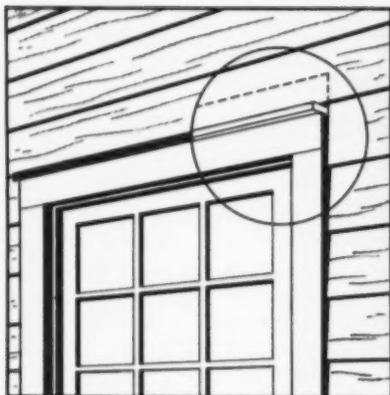


GRAVEL
STOPS

COPINGS FOR
PARAPET WALLS

WINDOW FLASHING

MOLDED GUTTERS



Complete Roofs of Terne Metal

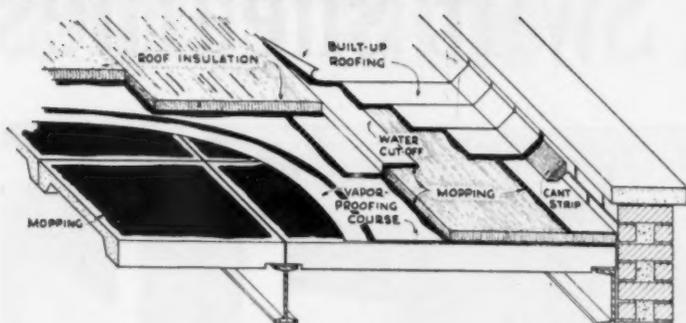


The properties of Follansbee Seamless Terne Metal that make it desirable for Weathersealing also make it the best material for complete roofs. The architect and the man of the house like the good design features and the fine service it renders; the woman of the house likes its beauty of design and the color range it makes possible by the use of paint; and the builder, in addition to liking all these qualities, knows that he can build a house with a Terne Metal roof incorporating lighter structural design, because he is free of concern for the weight of the roof.

FOLLANSBEE STEEL CORPORATION

PITTSBURGH 30, PENNSYLVANIA

roof insulation application details . . .



Installation of roof insulation on flat, pre-cast concrete deck of factory building. Vapor-proofing course is two plies, lapped half, of 15-pound tar- or asphalt-saturated roofing felt in mopping of hot pitch or asphalt with hot bitumen between laps. Upper left: details of sealed joint roof insulation

Celotex Corp.

(Continued from page 394)

sories such as eave starters, hip and ridge shingles and ridge rolls are purchased separately.

A clean, level roof deck is a must for maximum serviceability of these shingles. Installation should be made in dry weather. Minimum roof pitch is usually specified as 5 inches per foot. Roof boards are covered with one layer of asphalt-saturated felt (not less than 15 pounds) with a 2-inch horizontal lap, a 6-inch end lap and a 12-inch lap at hips and ridges.

A wood cant strip along the eaves, flush with the lower edge, gives a proper pitch. Starter courses are placed *under* the felt; the first course is laid *on* the felt.

Asbestos-Cement Corrugated Sheets

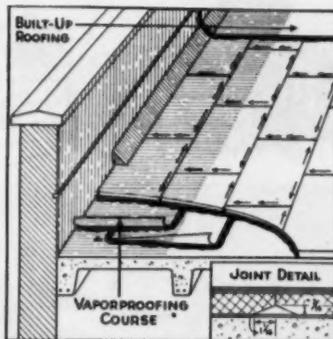
This incombustible, non-corrosive and weatherproof material is used chiefly for roofing farm buildings, garages and hangars, and light industrial buildings; it is said to be especially economical for industrial buildings because it contains nothing that can rust or rot.

Sheets are 42 inches wide and range in length from 3 to 12 feet. Average thickness is $\frac{3}{4}$ -inch. Special fasteners are supplied for various types of framework.

Steel Roll Roofing

This type of roofing should be laid on selected waterproof paper (not tar or other paper containing acids). Nails should not be driven through the strips. Solder should be strictly half and half; rosin should be used only as a flux for soldering with all rosin removed from seams before painting. Roofers should wear rubber shoes and avoid unnecessary walking on the roof.

APRIL 1953



how to install gypsum roof plank . . .

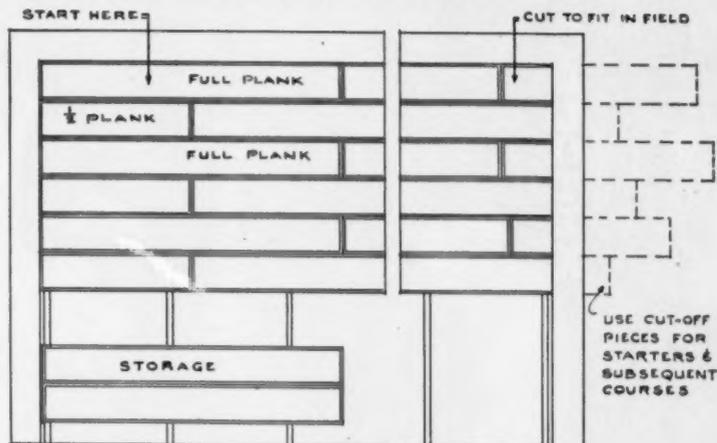


Fig. 1

End joints of pre-cast gypsum plank must be staggered, whether over supports or not. Pieces left after cutting are convenient to start a new row. Below: strength of plank comes through meshing side joints which form continuous I-beam over supports

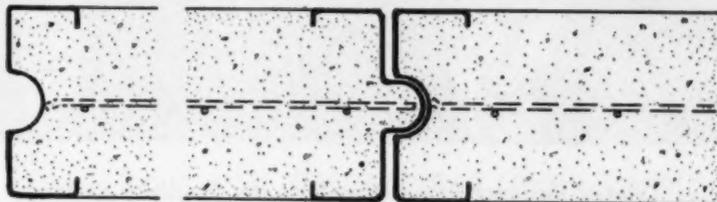


Fig. 2

Certain-teed Products Corp.

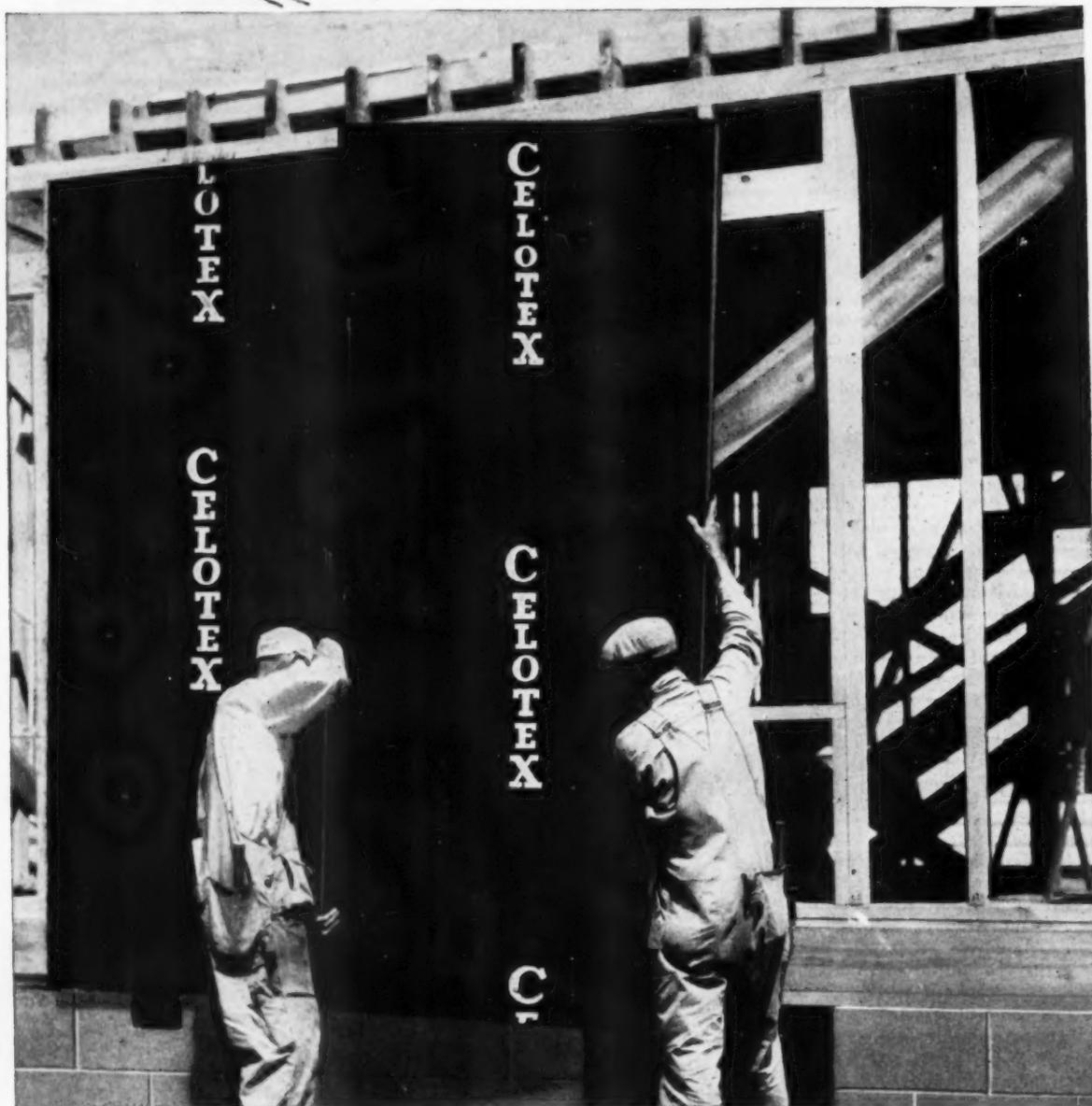
Copper Roofing

The thickness of copper roofing is determined by the type of construction and location of the building. For sloping roofs of residences 10-oz. copper has proved satisfactory;

heavy industrial buildings may require up to 32-oz. per square foot, although 16-oz. copper is considered standard for general sheet metal work in building construction.



Swift sheathes



Celotex National Advertising Puts the Spotlight on You

To help make 1953 a banner year for you, Celotex is staging a great new national advertising campaign. Big, colorful, hard-selling ads—month after month—in THE SATURDAY EVENING POST, BETTER HOMES & GARDENS, AMERICAN HOME, SMALL HOMES GUIDE. All telling prospects in your own community—"See your builder!"

These impressive, full-page Celotex ads are designed to build business for you. Tie in with them by emphasizing to every prospect that your homes are built with *genuine* Celotex Products. This makes your selling job far easier. For over a quarter century of national advertising has created unsurpassed *public preference* for the name Celotex!

Impartial survey shows
ARCHITECTS PREFER
CELOTEX
INSULATING SHEATHING
2 to 1
over the next leading brand

homes almost 30% faster

SINCE SWITCHING TO EXTRA-VALUE CELOTEX INSULATING SHEATHING

"Our erection crews can sheathe Swift Factory-Built Homes almost 30% faster since we switched to Celotex Double-Waterproofed Insulating Sheathing. It is easier to cut and fit, and reduces waste as much as 15%."

Ira H. Gordon, President
SWIFT HOMES, INCORPORATED
Elizabeth, Pennsylvania



Like Mr. Gordon, leading builders all over the country have found that Celotex Insulating Sheathing speeds erection, saves labor and materials. It makes your homes stronger, more comfortable, easier to sell. Applied, it costs no more and usually LESS than ordinary sheathing. Yet it gives you all these big *added* values . . .

1. Insulates and Weatherproofs as it builds. All at one cost. No building paper needed.

2. No Corner Bracing Needed to meet F.H.A. requirements, with 4 ft. wide, $\frac{25}{32}$ " thick Celotex Insulating Sheathing. It is laminated for extra strength and rigidity. Has about 30% greater bracing power than ordinary sheathing.

3. Goes Up 30% Faster. Easier to cut and fit. Up to 15% less waste. Shingles can be applied direct, easily and quickly.

4. Double-Waterproofed. Inside, by integral treatment that coats every fibre; outside, by asphalt coating. Yet has high vapor permeability. Lets you resume work quicker after rain.

5. It is the Only Sheathing made of tougher, stronger, long Louisiana cane fibres—and protected by the patented Ferox® Process from dry rot and termites.

Mail coupon for free booklet telling how you can save as you build better homes with Celotex Insulating Sheathing.

Build Better... Build with Genuine

CELOTEX INSULATING SHEATHING

REG. U. S. PAT. OFF.



It's double
waterproofed!

The Celotex Corporation, 120 S. LaSalle Street,
Chicago 3, Illinois

MAIL TODAY!

The Celotex Corporation, Dept. AB-43
120 S. LaSalle St., Chicago 3, Ill.

Please send me free the Celotex booklet, "How You Can Build Better Homes at Lower Cost."

Name.....

Address.....

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



Fitite SHAKES ARE OPEN-AIR DRIED

The wise builder knows that Nature dries best . . .

There really isn't much of a trick to drying a pre-stained cedar shake — if you are willing to take the time and go to the trouble of doing the job right. Dozens of experiments have been tried in an effort to find a "quick" way to do the job. Hot lights, hot air, and hot ideas of a dozen kinds have been tried. We at Colonial Cedar Company have studied all of the short-cut suggestions, and we've found that nothing beats good old mother nature for drying shake stain.

So we just use mother nature.

We take the time to "hang Fitite Shakes out to dry" in the good old fresh air. Takes a lot of doing, a lot of storing, a lot of waiting; but it assures us that we are giving Fitite Shakes the best stain coverage in the business. Have you compared Fitite Shakes with the rest?



COLONIAL CEDAR COMPANY, INC.
600 WEST NICKERSON STREET, SEATTLE 99, WASHINGTON

AMERICAN BUILDER

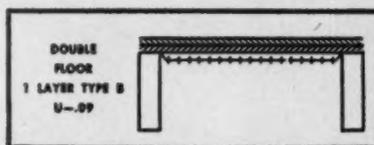
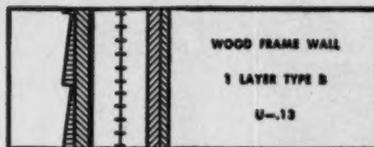
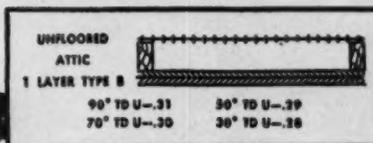
Insulating efficiency without bulk

... Costs less ... Perfect vapor barrier, too!

REYNOLDS ALUMINUM REFLECTIVE INSULATION

TYPE B—Embossed aluminum foil on both sides of kraft paper.

TYPE C—Embossed aluminum foil on one side of kraft paper.



Quickest to apply, easiest to handle! You cover 250 square feet with one 15-lb. roll... just staple the bright sheets in place. Reflects up to 95% of radiant heat from whatever direction it comes... from the sun in summer, from stove or furnace in winter. And it's the perfect vapor barrier, too. All this, at half the cost of most bulk insulations! Write for information. Reynolds Metals Company, Building Products Division, 2003 South Ninth Street, Louisville 1, Kentucky.

In rolls of 250 sq. ft. — 25", 33" and 36" wide.

 **IN CEILINGS**



 **IN WALLS**



 **IN FLOORS**



 **IN ATTICS**



Inquire also about new, low-cost Reynolds Vapor Barrier.



REYNOLDS ALUMINUM

APRIL 1953

405



W. P. "Bill" Atkinson...

Saves \$101 a home

W. P. "Bill" Atkinson, Midwest City, Okla. Pres., W. P. "Bill" Atkinson Lbr. and Mfg. Co., Developer of Midwest City, Past Pres. National Association of Home Builders.



\$30,000 saving! Bill Atkinson plans to build up to 300 quality homes like these in his new Ridge Crest subdivision at Midwest City. By using Insulite Sheathing instead of wood, he stands to cut building costs about \$101 per home . . . a total project saving of better than \$30,000! What's more, Insulite Sheathing means quality construction because it has extra insulation value . . . outstanding structural strength.

"Here's how to build better for less," says W. P. "Bill" Atkinson

Save! Cut sheathing time as much as 43%! One carpenter can sheath 1,000 square feet in 8 hrs. or less with Insulite Sheathing. Carpenters like to work with it because it's clean and easy to handle, easy to cut and apply.

Save! Reduce costly waste! Insulite Sheathing virtually eliminates waste! Here's an example. The waste that remained after a recent 6,000 sq. ft. sheathing job was one small wheelbarrow load!

Compare this typical Insulite saving with the minimum of 12% waste figured on horizontal wood sheathing jobs!

Save! Eliminate building paper. Since Insulite Sheathing is waterproofed throughout with asphalt, there's no need for building paper. It protects against moisture, yet is highly permeable to allow vapor to escape from inner wall areas. Won't warp or buckle either. Store it or use it anywhere in any weather.

Save! Eliminate corner-bracing. When you use Insulite's 4-ft.

with Insulite Sheathing



INSULITE AND BILDRITE ARE REG. T.M., U. S. PAT. OFF.

Bildrite you can eliminate corner-bracing entirely. (4-ft. Bildrite was the first insulating sheathing to be accepted by F.H.A. for use without corner-bracing.) Bildrite's tremendous bracing strength is equivalent to that of diagonal wood sheathing—more than twice that of horizontal wood sheathing!

Write! See how you can save with Insulite Sheathing. Free literature includes cost-comparison folders with which you can easily figure your actual dollar and cents savings with Insulite. Write Insulite, Minneapolis 2, Minnesota.



Build and insulate with double-duty

INSULITE

Made of hardy Northern wood



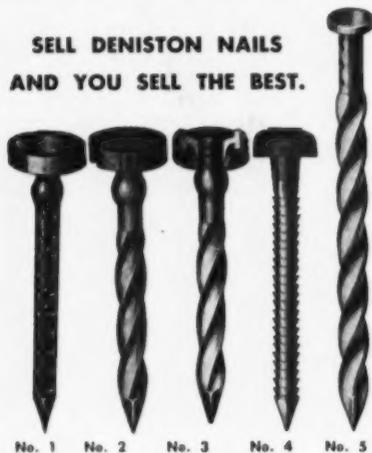
INSULITE DIVISION,
Minnesota and Ontario Paper Company,
Minneapolis 2, Minnesota



MEAN EXTRA QUALITY

Deniston Nails have been sold with complete customer satisfaction since 1926. They are the best nails for applying corrugated sheet metal, aluminum, slate and tile roofings.

SELL DENISTON NAILS
AND YOU SELL THE BEST.



No. 1. Triple-Lock Lead-Seal Straight Shank Nail.
Comes Bright or Galvanized. Lead is under head and down the shank. When nail is driven, the hole in sheet is actually sealed with lead.

No. 2. Triple-Lock Lead-Seal Drive Screw Nail.
Bright or Galvanized. Same head construction as No. 1

No. 3. Triple-Lock Lead-Seal Drive Screw Aluminum Nail.
Made from special alloy to insure hardness, driving without bending and extreme holding power

No. 4. Denco Compressed Lead-Head Ring Shank Nail.
Bright or Galvanized. A compressed lead head with lead both over and under a steel head. Head will not "pop" off from driving or from expansion or contraction of steel or aluminum roofing.

No. 5. Pallet Nails, Drive Screw.
A quality nail $2\frac{1}{2}$ " long x 10 ga. Cement coated for extra holding power.

Length of Nail	APPROXIMATE NUMBER OF LEAD-SEAL and DENCO Nails per Pound				
	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"	$2\frac{1}{4}$ "	$2\frac{1}{2}$ "
Bright	96	88	82	77	71
Hot Galvanized	94	86	79	74	69
Aluminum	156	150	143		129

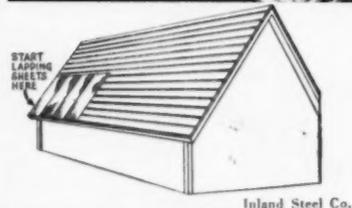
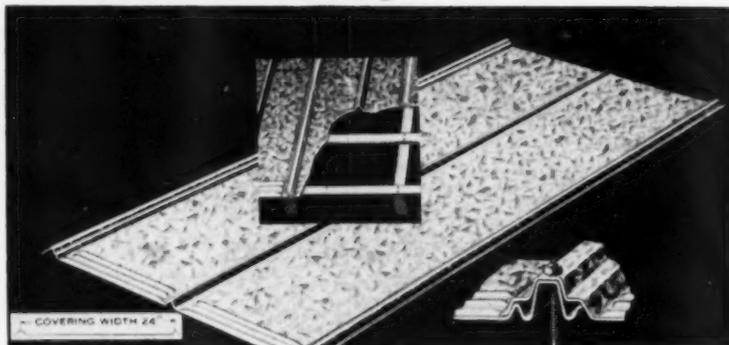
PACKING—Steel Lead-Head and Pallet Nails—100 pounds to keg. Aluminum Nails—50 pounds.

Deniston Nails are fully covered by patents

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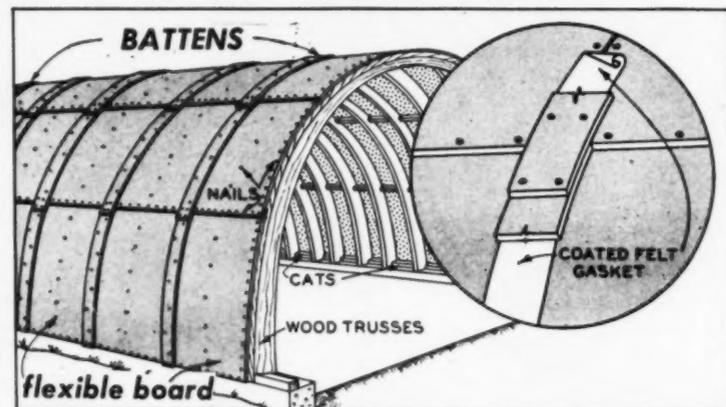
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two-channel steel roofing . . .



Construction details of two-channel steel roofing, showing two-drain channel. Material is applied with one row of nails; rib is double braced. "Twodrain" design is formed by a side-lap of two sheets. Figure at left: Erection should be started at left side but can be laid from right to left by lifting right-hand sheet to slip left sheet under to form side lap

flexible roofing for curved trusses . . .



Flexible asbestos-cement board is applied here as roofing over curved wood trusses. Nailing of sheets starts at bottom. Horizontal joints are lapped to 3-inch minimum. Vertical joints are butted and covered with battens of same material applied over a felt gasket

Built-Up Roofing

The built-up roof is a seamless covering of flexible waterproofed material, custom-built to fit the job. It can be applied hot or cold and is fabricated from felt, pitch, asphalt and gravel. Insulation is required because a major problem with built-up roofs is that of moisture on the underside resulting from condensation. At least one ply of roofing felt should be placed under insulation to act as a seal course.

Slate and Tile Roofing

Slate, a hard dense stone, is watertight, fireproof and stormproof. It rarely requires maintenance and has highly decorative color tones. On new roofing it is laid over asphalt-saturated felt and fastened solid with copper nails; if necessary, it can be

applied directly over asphalt or wood shingles.

Exposed nails are covered with elastic roofing cement colored to match the slate. Surface texture is smooth or rough as desired. The material comes in average thicknesses of $\frac{3}{16}$ -inch to $\frac{3}{8}$ -inch, in lengths of 10 to 24 inches.

Cedar Shakes

Pre-stained red cedar shakes are suitable for roofs that have sufficient pitch to insure good drainage. Light in weight and having a low rate of expansion and contraction with changes in moisture content, they give excellent performance where exposure to the weather is greatest. They may be laid with standard exposure on roofs of not less than $\frac{1}{4}$ pitch.

AMERICAN BUILDER

SIDEWALL SHEATHING

Sheathing ties the framework of a building together as well as providing some insulation and weather-tightening qualities to the exterior walls. Proper fitting and nailing are requisites for a well-knit frame.

Wood Sheathing

Experience and tests show that a wall with diagonal wood sheathing, two nails at each stud in each board, is four times as strong as a similar wall with horizontal sheathing. On a two-story platform-type frame, diagonal ties the two floors together more efficiently than horizontal and also provides a better finish-nailing surface.

Plywood Sheathing

Manufacturers claim that plywood gives more than twice the strength and rigidity of diagonal wood sheathing. The minimum thicknesses for wall sheathing are $\frac{5}{16}$ -inch for 16-inch stud spacings, $\frac{3}{8}$ -inch for 24-inch. FHA minimum property requirements specify corner braces in house framing may be eliminated when 4x8-foot sheets of plywood are nailed with 6d nails, 6 inches O.C. on all edges and 12 inches O.C. at intermediate bearings.

Gypsum Sheathing

Gypsum sheathing comes in panels 2 feet wide, 8 feet long and $\frac{1}{2}$ -inch thick, a coverage of 16 square feet of wall area per panel. Panel weight is less than 35 pounds. The panels fit 16- or 24-inch stud spacings, reducing waste. Edges provide snug and continuous contact between sheets.

Insulating Board Sheathing

This is a structural board made of cane or wood fibers; standard brands are waterproofed with an asphalt coating or with an integral asphalt treatment. There are two main size groups, both with thicknesses of $\frac{1}{2}$ - and $2\frac{5}{8}$ -inch. One group has dimensions of 4x8- or 4x12-feet, the other is 2x8.

The 4-foot width is applied vertically and nailed at the intermediate studs first with large-headed roofing nails spaced 6 inches apart. Nail spacing around edges is 3 inches.

The 2x8 sheathing, with interlocking horizontal joints, is applied horizontally with the same nailing and spacing as the large sheets. Where rigid shingles are used as exterior finish, furring strips must be applied over the sheathing unless special self-clinching nails are used.

Asbestos siding shingles may be applied directly to this sheathing with self-locking nails; clapboard and ties for brick veneer are nailed through the sheathing into studding.

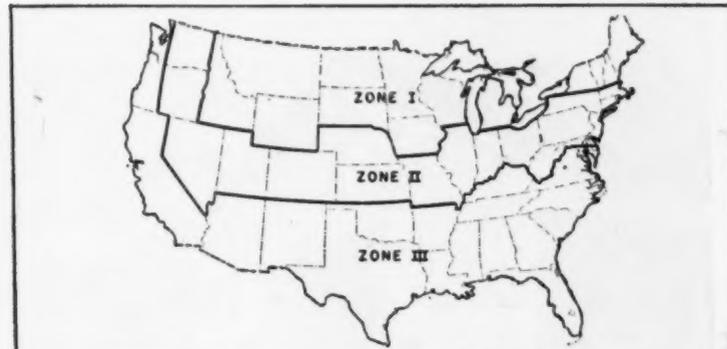


FIGURE 6.—Condensation zones.—Zone I roughly includes the areas with design temperatures -20° F. and colder; zone II 0° to -10° F.; and zone III areas warmer than 0° F.

Type of roof and occupancy	Condensation zone		
	I	II	III
(a) Flat roof. Slope less than 3 inches in 12 inches. No occupancy contemplated.	Total net area of ventilation should be $\frac{1}{200}$ distributed uniformly at the eaves plus a vapor barrier in the top story ceiling. Free circulation must be provided through all spaces.	Same as for zone I.....	Same as for zone I.
(b) Gable roof. Slope over 3 inches in 12 inches. No occupancy contemplated.	Total net area of at least 2 louvers on opposite sides located near the ridge to be $\frac{1}{500}$ plus a vapor barrier in the top story ceiling.	Same ventilation as for zone I. A vapor barrier is not considered necessary.	Same as for zone II.
(c) Hip roof. No occupancy contemplated.	Total net area of ventilation should be $\frac{1}{500}$ with $\frac{1}{600}$ distributed uniformly at the eaves and $\frac{1}{600}$ located at the ridge with all spaces interconnected. A vapor barrier should also be used in the top story ceiling.	Same ventilation as for zone I. A vapor barrier is not considered necessary.	Same as for zone II.
(d) Gable or hip roof. With occupancy contemplated.	Total net area of ventilation should be $\frac{1}{500}$ with $\frac{1}{600}$ distributed uniformly at the eaves and $\frac{1}{600}$ located at the ridge with all spaces interconnected. A vapor barrier should also be used on the warm side of the top full story ceiling, the dwarf walls, the sloping part of the roof, and the attic story ceiling.	Same as for zone I....	Same as for zone I except that a vapor barrier is not considered necessary if insulation is omitted.

¹ It is recognized that in many areas increased ventilation may be desirable for summer comfort.
² Refers to area enclosed within the building lines at the eave level.

THE CONDENSATION zone map above can be used with the table below it as a guide in determining the potential moisture vapor condensation situations which should be considered in normally tight, well-insulated structures in various parts of the United States. Zone I roughly includes the areas with design temperatures—20 degrees F. and colder; zone II—0 to 10 degrees F.; and zone III areas warmer than zero degree F. The table is keyed to the map and contains recommended good practice for loft and attic ventilation

INDIVIDUAL SOURCES OF MOISTURE IN HOUSES (Family of Four)			
Operation	Pounds of Vapor Produced per Operation		
Floor mopping (per sq. ft.)	0.03		
Clothes drying (per week, when drying is done indoors)	26.40		
Clothes washing (per week)	4.33		
Cooking	From food	From gas	
Breakfast	0.34	0.56	0.90
Lunch	0.51	0.66	1.17
Dinner	1.17	1.52	2.69
Bathing—Shower tub	0.50		
	0.12		
Dish washing			
Breakfast	0.20		
Lunch	0.15		
Dinner	0.65		
Human contribution (per hour)	0.46		
Gas refrigeration (per hour)	0.12		
House plants (per hour, average)	0.04		

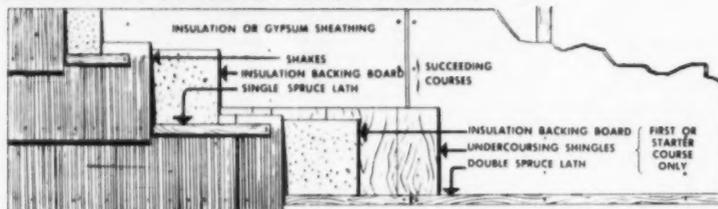
Courtesy Heating and Ventilating's Reference Data



Insulite Division, Minnesota & Ontario Paper Co.

Applying shingle-backer and shingles over insulating sheathing

details for stained cedar shakes . . .



Red Cedar Shingle Bureau

Lath strip application of cedar shake walls over insulating board or gypsum sheathing. Lath, nailed at right, provides gripping strength for double-coursing nails

(Continued from page 409)

BUILDING PAPER

Placed between sheathing and outside finish to prevent passage of air through walls, building paper should be tough enough to withstand rough handling, retain its strength when wet, and halt moisture passage.

A vapor barrier on the warm inside wall is considered essential when insulation is placed against sheathing; it is needed to prevent moisture condensation within the wall. The vapor barrier is a paper which keeps vapor from entering the wall from inside the house. The building sheathing paper which insulates the outside wall should not only be wind and rainproof but, in contrast to the vapor barrier, should allow vapor to pass through it, and should be five times as vapor permeable as the vapor barrier.

Four main types of building paper are: (1) papers impregnated with asphalt; (2) kraft paper impregnated with paraffin; (3) laminated papers of two or more layers cemented with asphalt; (4) machine-finished papers.

SIDING

Plywood

Only exterior type plywood with waterproof adhesive bond should be used for permanent outside exposure. Plywood may be applied with molded battens, V-grooves or flush joints; it makes excellent wide siding when applied in half-panel or third-panel widths. Panels $\frac{1}{4}$ -inch thick are used successfully in low-cost construction; $\frac{1}{2}$ -inch or thicker has been found satisfactory for single-wall structures.

Non-corrosive nails such as the common hot-dipped galvanized type should be used. Nailing should be with 6d common or 6d box nails for $\frac{3}{8}$ -inch siding and 3d for thicker siding. When 4x8-foot or longer panels are used nails should be spaced not more than 6 inches O.C. at panel edges and 12 inches elsewhere.

FHA specifies that plywood used as siding must have minimum thickness of $\frac{3}{8}$ -inch with studs 16 inches O.C. If sheathing is used plywood siding may be $\frac{1}{4}$ -inch thick.

Wood Siding

Wood siding must be reinforced with sheathing except in climates where heating is not a factor.

It is always good to "lay out" siding before it is applied, so that the bottom edge of one strake will fall at bottom edges of window sills and that of another strake will run neatly over the top of the frame or drip mold. When drop or rabbeted siding is used, the lap of each board over the next below is determined by the depth of the rabbeting; with beveled siding the lap can be varied as the builder desires.

Where two pieces of siding butt, joints should be square. Corners can be finished as follows:

(1) *Against corner boards:* One piece of corner board should be wider than the other so that when in place the board will look the same from both sides. Also, corner boards should be slightly thicker than ends of siding; minimum thickness for 6-inch siding is $\frac{3}{4}$ -inch. Heavier corner boards are needed for heavier siding.

(2) *Mitered corners:* While more attractive-looking, these are harder to apply than corner boards. Corner board technique is more air-tight and water-tight.

Bevel Siding

Customary widths of this material are 4, 5, 6, 8, 10 and 12 inches; it is usually $\frac{3}{16}$ -inch thick on the thin edge and $\frac{1}{2}$ - to $\frac{3}{4}$ -inch on the other. Bevel siding 8 inches or wider often is called "Bungalow" or "Wide Colonial" and often has shiplapped or rabbeted joints so that it lies flat against studding. This application reduces apparent thickness by $\frac{1}{4}$ -inch but permits use of extra nails.

Also, rabbeted joints require less lumber than the lap joints used with plain bevel siding. The 4- and 6-inch widths of bevel siding do not require rabbeted joints; they are usually $\frac{1}{2}$ -inch thick and rabbeting would make them too thin.

Cedar Shakes

In addition to attractive appearance, prestained cedar shakes have insulating value which resists heat transmission. Edge-grain shakes are more weather-resistant and less likely to cut or warp on the wall than those cut flatwise of the grain.

Types of cedar siding shakes include processed shakes with parallel sides and square butts; the sim-

(Continued on page 412)

TEMLOK® BOARDS

Insulation and wall-boards 4' x 6', 7', 8', 9', 10', 12'. Thicknesses: 3/8", 1/2". Colors: Ivory and Light Ivory.

TEMLOK PLANK

A handsome interior finish. 8", 12", 16" x 8" and 12". Thickness: 1/2". Lok-Bevel Joint. Colors: Suntan Blend.

TEMLOK TILE

A decorative fiberboard ceiling finish. 12" x 12", 12" x 24", 16" x 16", 16" x 32". Thickness: 1/2". Lok-Bevel Joint. Light Ivory or Snow White.

PERFORATED TEMLOK TILE

A fiberboard, sound-absorbing ceiling tile. 12" x 12", 16" x 16". Thickness: 1/2". Lok-Bevel Joint. Light Ivory or Snow White.

CUSHIONTONE®

A highly efficient fiberboard acoustical tile. 12" x 12" x 1/2". Beveled edge. Two-coat washable white paint finish.

HARDBOARDS

Patterned, tempered, untempered, and plain panels in a variety of sizes and thicknesses.

INSULATING WOOL

Enclosed Roll
Blankets
Enclosed Batts
Utility Batts
Pouring Wool
Perimeter Insulation,

TEMLOK SHEATHING

An asphalt-impregnated sheathing for bracing strength and insulation. 2' x 8', 4' x 8', 4' x 9', 1/2" and 3/8" thick.

TEMLOK LATH

Provides an efficient plaster base. 18" x 48". Thickness: 1/4". Screen surface. Shiplapped edges with scoop bevel on four sides.

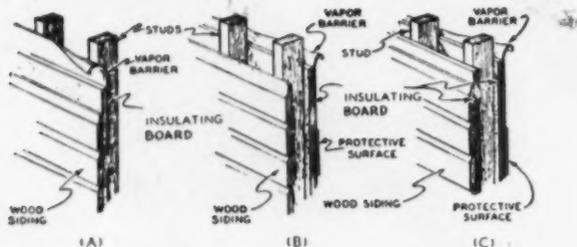
ARMSTRONG'S BUILDING MATERIALS

M-67* MONOWALL®

A decorative panel-board with a tough plastic finish. Three designs, 27 color combinations. 4' x 4', 5', 6', 8', 10', 12'. Thickness: 3/8".
* T.M. applied for.

Armstrong's building materials are designed to help you build better houses and to save money, both in materials and labor. The Armstrong name and reputation can make your houses easier to sell. For further information, write Armstrong Cork Company, 1604 Ocean Avenue, Lancaster, Pennsylvania. 

insulating board in farm structures . . .



Three methods of insulating frame walls: (A) One layer of insulating board on outside of studs with or without other exterior finish. (B) One layer of board inside studs, with wood siding or other finish. (C) Two layers, one on each side of studs with wood siding or other finish over outside layer

(Continued from page 410)

ulated hand-split shake with side-grooved face and "invisible" joints; and the hand-hewn type with face side smooth, visible joints, random thickness and rustic appearance.

Lengths are 16, 18 and 24 inches. Shakes are usually designated as 4/2-inch or 5/2-inch, denoting four or five to a two-inch thickness.

Asbestos-Cement Shingles

These virtually maintenance-free shingles are fireproof and have high weather resistance. A variety of colors, textures and butt lines are made.

Installation can be over wood sheathing or over gypsum or insulating board with special fasteners. Manufacturers provide backer strips for use behind vertical joints and corrosion-resistant face nails.

Aluminum Siding

Features of aluminum clapboard siding include a curved or concave face for extra strength; and spring-tensioned joint for weather-tightness. The material is produced in individual courses 7⁷/₈ and 9¹/₂ inches wide (6⁷/₈ or 8¹/₂ weather-exposed) and in standard lengths of 10, 12, 14 and 16 feet.

Insulated Siding

This siding is imitation brick and stone, backed with insulating board which adds structural strength and heat resistance to exterior walls. The exposed surface is coated with asphalt.

Common sizes are 43⁷/₈ by 14³/₈ inches. Harmonizing corner pieces are 3⁵/₈x2⁵/₈x33³/₄ inches.

INSULATION

All building materials such as wood, masonry, and even wide air spaces permit the passage of heat from the interior to the exterior in winter or from the exterior to the

interior in summer. This rule also applies to insulation. Insulation never completely stops the passage of heat, but it is manufactured for the express purpose of retarding the greatest possible amount.

LOOSE FILL

Various types may be packed, poured or blown into the spaces formed by framing members or masonry. Normally, they are used for insulating existing buildings.

Mineral Wool includes three types of noncombustible insulation known as rock wool, slag wool or glass wool. They may be fabricated into nodules, into batts or blankets.

Wood fiber wool fill includes several insulations made from wood fiber to produce a lightweight fleecy material. These are generally treated to render them flame resistant, vermin repellent and moisture resistant.

Vermiculite is an inert, lightweight, granular insulating material manufactured by exploding an aluminum magnesium silicate mineral, which is a form of mica.

BLANKETS

Blanket insulations are flexible units more than 48 inches in length and wide enough to fit between studs on conventional 16- or 24-inch centers. This material is manufactured to control thicknesses and either folded in cartons or packed in rolls. It is made of mineral wool, wood fiber, cotton and animal hair. The fibers are either naturally fire resistant, moisture and vermin resistant or are treated to make them so. Thicknesses are generally 1, 2, 3 and 3⁵/₈ inches.

BATTS

A number of manufacturers who produce blanket insulations also make batts, using the same raw materials. Battens are 48 inches or less in

length and the same widths as the blankets—15 inches to fit between studs 16 inches on center and 23 inches for the 24-inch O.C. studs. The most common thickness for batts is three inches, although they are also produced in one- and two-inch thicknesses. They may be obtained with the insulation completely encased in paper, one side of which is a vapor barrier; with the vapor barrier only on the one side; or without the integral vapor barrier. Some manufacturers provide a nailing flange as part of the vapor barrier.

INSULATING BOARD

Building board is a product for general usage produced in four-foot widths and in lengths from six to 12 feet. Popular thickness is 1/2-inch, although it is available in thicker grades. It can be used satisfactorily with the natural finish but a number of manufacturers apply various colors to the surface at the factory. When applied, insulating board is usually the finish wall.

Insulating board *sheathing* is a structural board usually heavier in weight than building board. All of the sheathings on the market today are waterproofed either with an asphalt coating or with an integral asphalt treatment. Insulating board sheathing is supplied in two main size groups—1/2, or 2⁵/₃₂-inch thick, four feet wide, in lengths from eight to 12 feet with square edges, 2x8 sheets, 2⁵/₃₂-inch thick, usually with some kind of tongue and groove or fitted edge joint on the long edges.

REFLECTIVE

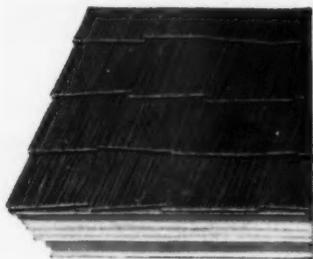
Reflective insulations, with their bright metallic reflective surfaces, differ from other types of insulation because they depend entirely on their surface characteristics for insulating value. Insulation value is achieved with reflective insulations only when they face a 3/4-inch or larger air space.

SLAB

Slab insulations are made of a number of materials in small, rigid units usually one inch or thicker in sizes up to 24x48 or 36x36 inches square. The general kinds are: 1—corkboard; 2—wood fiber and cement; 3—mineral wool; 4—cellular glass; 5—vegetable or wood fiber board.

In home building and light construction the slab insulations are being used at an increasing rate to retard heat loss from concrete slab floors laid directly in contact with the ground.

American Colonial ASBESTOS SHINGLES



Each shingle is designed as a rigid asbestos-cement strip, covers as much area as 5 individual shingles. American Colonials are self-aligning, nail holes are pre-punched. Application is simple and rapid.

- ... add character to any home—
- ... wear like stone—
- ... applied like any strip shingle—



The finished roof has the pleasing horizontal shadow line and deep-grained texture desired by so many homeowners.



YOU LIFT your houses out of the ordinary when you give them a roof of Johns-Manville American Colonial shingles. These handsome, colorful shingles have the rugged, sturdy and fireproof qualities of asbestos and cement. In addition, they have new styling and striking new beauty.

In most areas, the applied cost of an American Colonial shingle roof is lower than any other *permanent type* of roof you can use. The shingles are readily available nationally, easy to handle, and any carpenter can apply them. Your choice of several attractive colors. For full information write Johns-Manville, Box 60, New York 16, N. Y.



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Quality products

SINCE 1795



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- ★ *Thick butt construction; two layers of both asphalt and firmly embedded mineral granules give added years of wear where it counts . . . on exposed tabs.*
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For more information, write Bird & Son, inc., Dept. AB-4, East Walpole, Mass.

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WATERPROOF PAPERS • ROLL ROOFINGS

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keeping moisture out of siding jobs . . .



In applying siding and trim two things help keep moisture out. No. 1 is accurate cutting for tight-fitting joints



No. 2 is proper sealing of all cut ends with priming material, plus caulking and sealing all joints which might give moisture a foothold



California Redwood Assn.

Choice of putty is important. If final finish is paint, use oil putty. With all other finish types use non-oily putty and avoid stains

IT IS POSSIBLE TO BUILD BETTER and SAVE MONEY at the same time



• Nova-Vita Horizontal-Sliding Windows are revolutionary—offer new advantages for every room.



• Homasote Big Sheets (up to 8' x 14') save time and labor in the sheathing of roofs and exterior walls.



• Nova Wall and Furniture Units—of many types—give more usable space in less total space.



• Homasote Underlayment is nailed directly to the rough flooring. No felt or pad is needed.



• Nova Roller Doors—for closets and passageways—are installed in less than 30 minutes.



• Sheaths and shingle in one operation with Nova Sidewalls and Roofs. Top quality: maximum economy.

• Architect, Designer or Builder . . . we invite the opportunity to prove to you that the products and materials here shown—and others in addition—are among the soundest purchases you can specify or make.

Our claim to your attention is based upon three factors . . .

(1) We have been selling building materials for the past 43 years—in all parts of the United States—serving, and in continuous contact with, thousands of architects, designers and builders. We know something about your problems.

(2) In one period of our history, we spent more than half a million dollars on pure research—covering a good many problems the average builder or architect has never had the time to explore.

(3) At another period, we were responsible for the construction of thousands of houses—in the fastest time ever accomplished, at the most economical cost.

As a result, each product here offered has been specifically designed and manufactured to be (at least) competitive in installed cost; to be unusually economical in maintenance costs; to outlast and outservice competitive products; to increase the investment value of the house—for mortgage or resale purposes; to add materially to the appearance of the house.

Through our representatives—soundly trained—you draw upon tested methods for exterior and interior design, for the scheduling of all construction operations, for setting up either site or factory fabrication, for the coordination of any or all operations. Equally important, you profit further by buying many products and materials from one dependable source.

Currently in *American Builder* there is appearing a series of articles by Griffith S. Clark of our firm—dealing with many of the most difficult problems currently encountered in the field of home construction. The principles there presented are applicable to residences in every price group.

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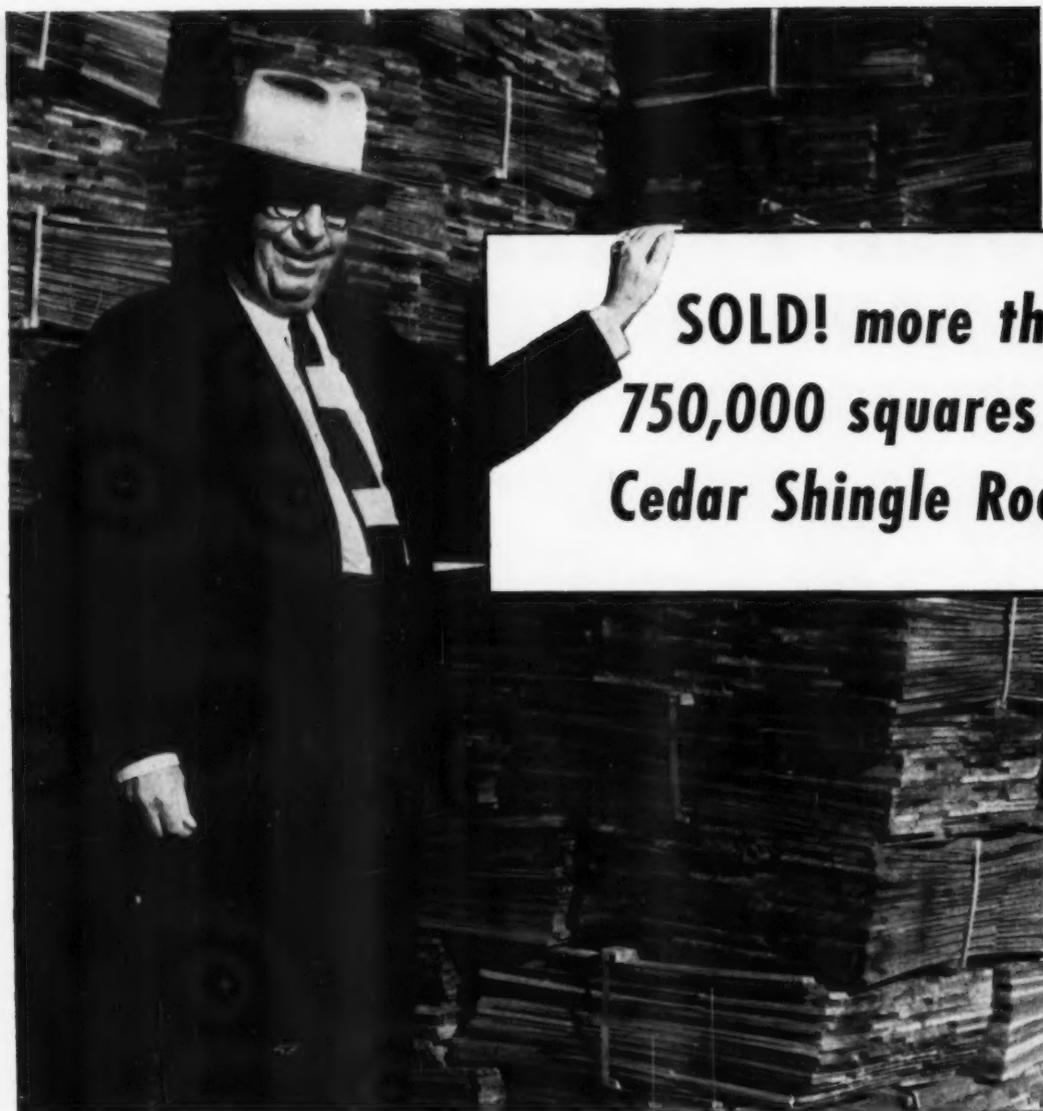
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Address.....

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

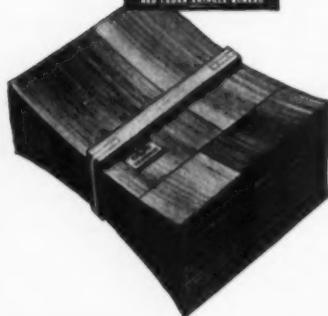
My lumber dealer is.....



**SOLD! more than
750,000 squares of
Cedar Shingle Roofs**

"The only roof that can take it"

... says D. H. Hardman

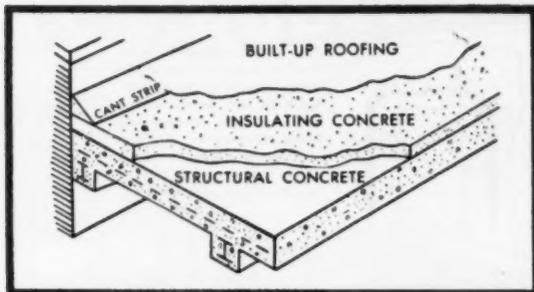


OUT IN KANSAS where the big winds blow, Dwight Hardman and his father before him have had a wealth of experience in the realm of roofing. Operating a chain of 28 retail yards, their record of sales tops three quarters of a million squares of shock-proof red cedar shingles, and Hardman should know when he says "no other roof material at comparable price can take it."

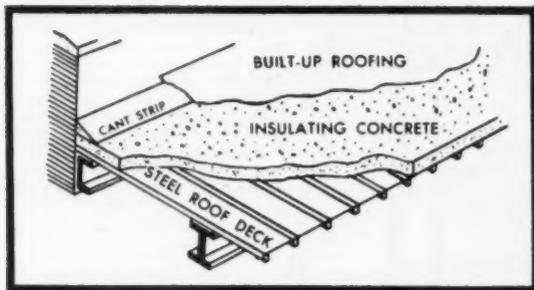
Like so many other lumber and building materials distributors, retailers, and experienced builders, Hardman has learned, through *experience*, that CERTIGRADE red cedar shingles are the best quality roof for the money. Best for protection, best for beauty, best for longer life per dollar of cost.

RED CEDAR SHINGLE BUREAU
5510 WHITE BUILDING • SEATTLE 1, WASHINGTON
425 HOWE STREET VANCOUVER, B. C.

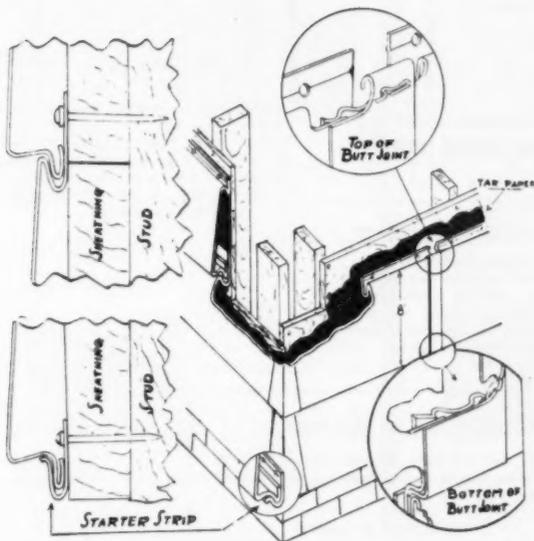
vermiculite slab insulation . . .



Two applications of vermiculite insulating concrete. Lightweight aggregates are porous and should be wet thoroughly before use. Usually a larger proportion of fine aggregates because of rough surfaces and irregular shapes of light aggregate particles



Zonolite Co.



application details for aluminum siding . . .

Aluminum clapboard siding in cut-out installation view. Curved face of material gives added strength, minimizes highlights or wrinkles

APRIL 1953

COMMON NON SENSE



"This cheaper roof will save us money"

This is common sense

Only a fool buys trouble to save money, when everyone knows that a properly applied roof of CERTIGRADE red cedar shingles costs so little more—gives satisfaction for so many extra years. You owe it to your customers to tell them the difference.

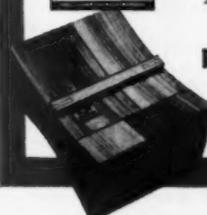
This proves it

CERTIGRADE cedar shingles, because of their great strength and rigidity, can be applied on spaced rather than solid sheathing. You can count on saving about half the sheathing materials cost, and much of the cost of sheathing application, when you use cedar shingles. Let us send you a free estimating form so that you can accurately check the comparative cost of roof construction including sheathing. Your own check, in your own area, will prove that cedar shingle roofs are your best buy. Write today, ask for "Roof Cost Estimating Form."

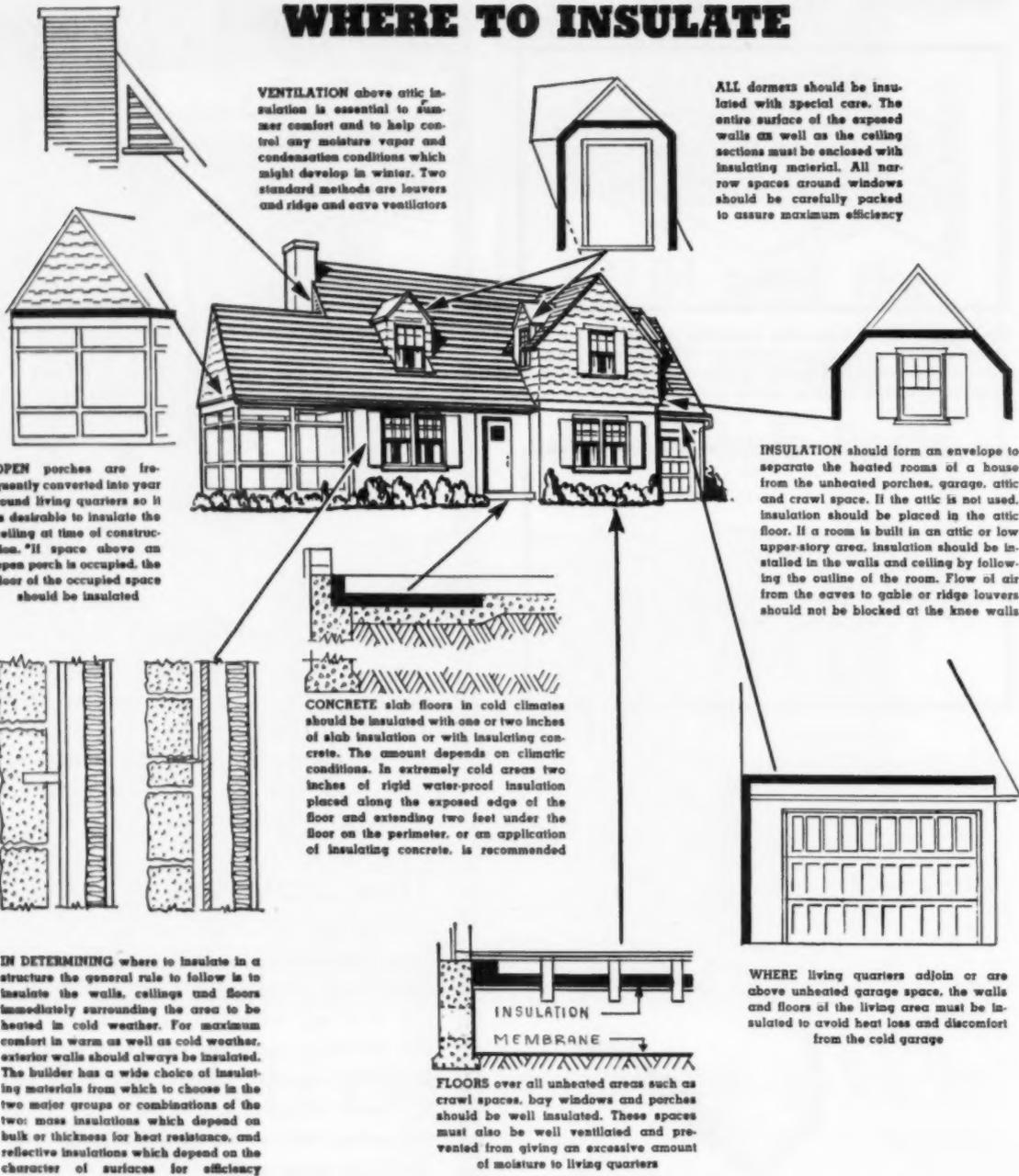


RED CEDAR SHINGLE BUREAU

5510 White Building, Seattle 1, Wash.
425 Howe Street, Vancouver, B. C.



WHERE TO INSULATE



VENTILATION above attic insulation is essential to summer comfort and to help control any moisture vapor and condensation conditions which might develop in winter. Two standard methods are louvers and ridge and eave ventilators

ALL dormers should be insulated with special care. The entire surface of the exposed walls as well as the ceiling sections must be enclosed with insulating material. All narrow spaces around windows should be carefully packed to assure maximum efficiency

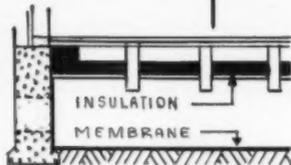
OPEN porches are frequently converted into year round living quarters so it is desirable to insulate the ceiling at time of construction. If space above an open porch is occupied, the floor of the occupied space should be insulated

INSULATION should form an envelope to separate the heated rooms of a house from the unheated porches, garage, attic and crawl space. If the attic is not used, insulation should be placed in the attic floor. If a room is built in an attic or low upper-story area, insulation should be installed in the walls and ceiling by following the outline of the room. Flow of air from the eaves to gable or ridge louvers should not be blocked at the knee walls

CONCRETE slab floors in cold climates should be insulated with one or two inches of slab insulation or with insulating concrete. The amount depends on climatic conditions. In extremely cold areas two inches of rigid water-proof insulation placed along the exposed edge of the floor and extending two feet under the floor on the perimeter, or an application of insulating concrete, is recommended

WHERE living quarters adjoin or are above unheated garage space, the walls and floors of the living area must be insulated to avoid heat loss and discomfort from the cold garage

IN DETERMINING where to insulate in a structure the general rule to follow is to insulate the walls, ceilings and floors immediately surrounding the area to be heated in cold weather. For maximum comfort in warm as well as cold weather, exterior walls should always be insulated. The builder has a wide choice of insulating materials from which to choose in the two major groups or combinations of the two: mass insulations which depend on bulk or thickness for heat resistance, and reflective insulations which depend on the character of surfaces for efficiency



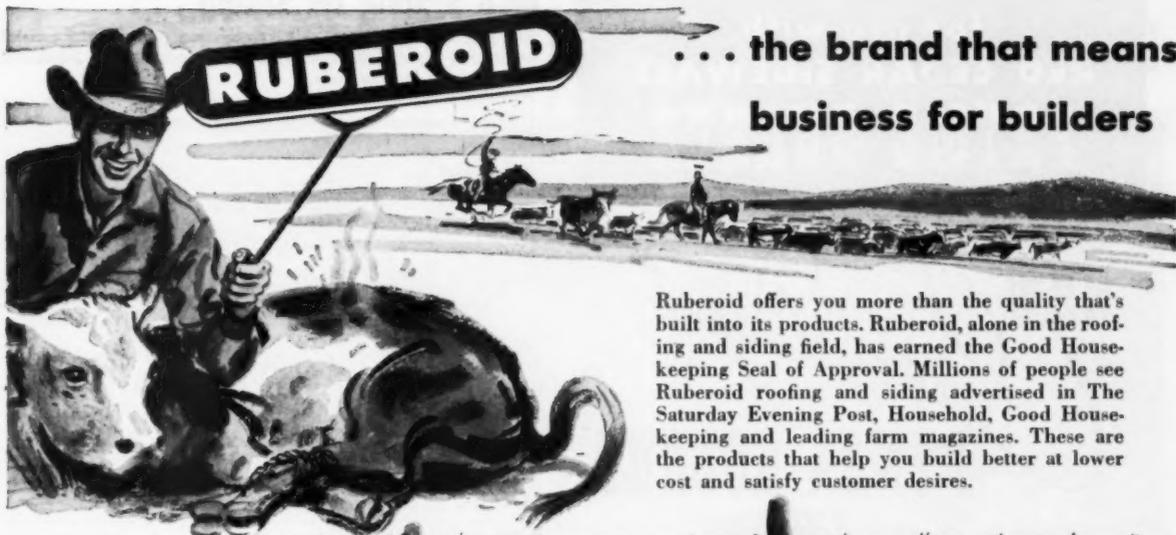
FLOORS over all unheated areas such as crawl spaces, bay windows and porches should be well insulated. These spaces must also be well ventilated and prevented from giving an excessive amount of moisture to living quarters

WHERE HEAT IS LOST OR GAINED IN A BUILDING

Studies of typical buildings as to relative heat loss and gain through various parts or sections are given below. These values are not for the same structure and are typical enough to be indicative of heat transmissions:

Heat Loss in Winter		Heat Gain in Summer	
Walls	32.9%	Walls	33.6%
Ceilings and roof	22.2%	Ceilings	24.2%
Floors	.3%	Floors	3.7%
Glass and doors	29.9%	Glass and doors	26.4%
Infiltration	14.7%	Infiltration	12.1%
	100.0%		100.0%

The above figures were assembled from studies of typical two-story houses. The percentages would vary somewhat on one-story houses because the ceiling area would be proportionately greater and the wall area less.



... the brand that means
business for builders

Ruberoid offers you more than the quality that's built into its products. Ruberoid, alone in the roofing and siding field, has earned the Good House-keeping Seal of Approval. Millions of people see Ruberoid roofing and siding advertised in The Saturday Evening Post, Household, Good House-keeping and leading farm magazines. These are the products that help you build better at lower cost and satisfy customer desires.

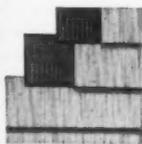
Color-Grained Siding*



... the decorator-designed, textured asbestos-cement siding that revolutionized the siding market. Now, it has a new sales feature ... *Duroc* protective finish. Six appealing colors.

*Patent Nos. 2307733; 2307734, others pending

ShadoWedge†



... the tapered asphalt undercourse strip that offers a tighter, better sidewall and adds extra beauty to Color-Grained Siding by providing deep shadowlines.

†Patent No. 2394379, others pending

Tite-On Shingles



... the original interlocking, wind-defying shingle, widely imitated but never equalled in performance and sales appeal. Now available in new pastel blends.

Stonewall Board

... the asbestos-cement building board that out-performs all other materials for farm use and many industry and home uses. Can be scored and snapped to speed jobs.



Crawl Space Cover

... has become a best-seller for use in basementless houses and "cast-on-the-ground" concrete slabs. It's required on many F.H.A. jobs.



Perfect Balance Thick Butt Shingles

... the perfect shingle with extra coating top and bottom ... for extra weight where it's needed to give thicker butt lines, extra wear and protection.



Shake-Design Roll Siding



... shake textured mineral-surfaced asphalt beauty, plus lasting fire and weather protection, opens the door to low-cost modernization jobs.

Dubl-Coverage Roll Roofing



... with fully coated sanded selvage. Suitable for cold as well as hot built-up roofing applications. 60 lb. roll meets all specifications.

Mount Vernon Asbestos Roof Shingles



... offer lifetime beauty, fire protection and economy. Butt lines provide deep, irregular shadows. A best-seller for your quality market.

These are some of the more than 100 Ruberoid products that mean good building and good business for you. For complete information on every type of asphalt and asbestos products to meet all your customer needs, see your Ruberoid dealer. The Ruberoid Co., 500 Fifth Ave., New York 36, N. Y.

The **RUBEROID** Co.

ASPHALT AND ASBESTOS BUILDING MATERIALS

for use with
**RED CEDAR SIDEWALL
 PRYME-SHAKES**

NEW *Creo-Dipt*
FYNAL-KOLORS
 FOR '53

Color sells homes. And here are the colors that sell best... **twenty** beautiful deep-tone and pastel shades carefully selected on the basis of home-buyer demand.

Offer your customers their choice of these gorgeous Fynal-Kolors and see how much faster your homes sell.

**NO EXTRA CHARGE FOR
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Under the exclusive Creo-Dipt Optional Kolor Plan, the purchase of factory-primed red cedar Pryme-Shakes entitles you to sufficient Fynal-Kolor for one-coat coverage by brush or spray.



Mail Coupon for
COLOR CHART

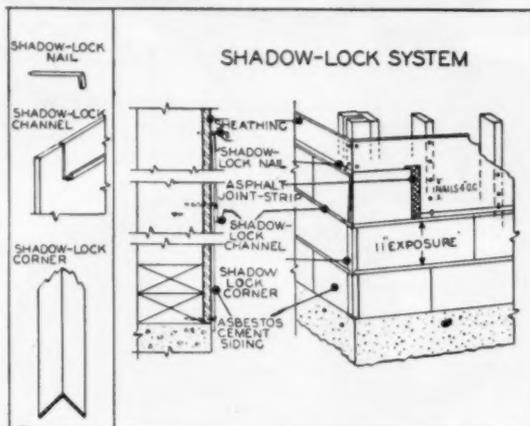
CREO-DIPT CO., INC.—Dept. AB-43
 North Tonawanda, New York

Please send me full information on the exclusive Creo-Dipt Optional Kolor Plan and the new Fynal-Kolors for '53.

NAME _____
 ADDRESS _____
 CITY _____ ZONE _____ STATE _____

lock system for siding . . .

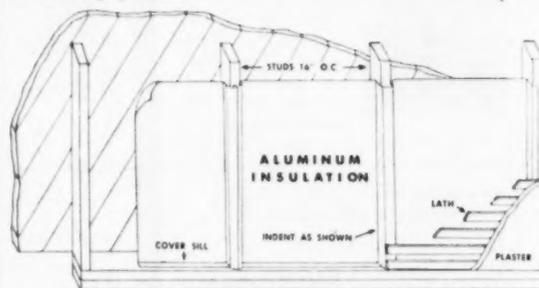
Applying asbestos-cement siding to gypsum sheathing by special locking system. Attachments include corner and horizontal channels and locking nails



U.S. Gypsum Co.

insulation between studs . . .

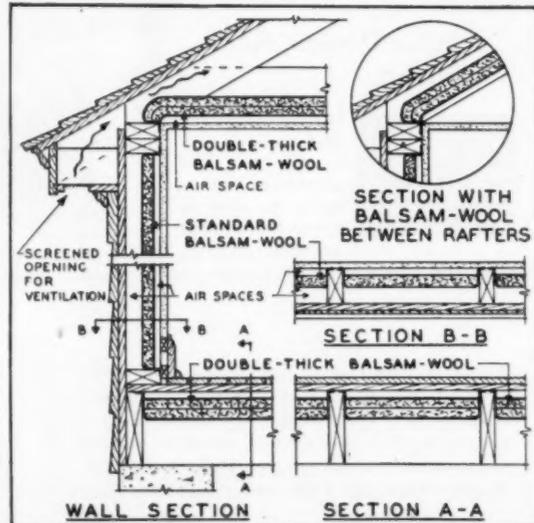
Aluminum reflective insulation bowed between studs; indentation made by running fingers down each side of stud. Install parallel to face of studs, starting with middle stud. Box in and cover sill and top plate



Reynolds Metals Co.

applying blanket insulation . . .

Wood fiber blanket insulation is applied in continuous strips parallel with framing members, with spacing flange lapped over inside edge or face; tacked or stapled through flange for fastening until held permanently with plaster base, interior finish or flooring



Wood Conversion Co.

Match this kind of backing... if you can!



Barrett offers you the greatest all around promotion program in the Roofing industry!

Barrett provides the hard-hitting support that helps you build greater profits from roofing sales.

Just look at some of the sales aids included in Barrett's promotion program:

- ★ Dramatic window and counter displays in full color.
- ★ Ingenious 3-dimensional slide films which bring the Barrett shingle line right to customers' eyes.
- ★ Newspaper mats and electros for local advertising.
- ★ Impressive personalized business stationery and forms.
- ★ Permanent and portable samples.
- ★ Shingle Buyer's Guides and presentations for show-room and soliciting use.
- ★ Mailing pieces and post-cards to arouse potential customers.
- ★ Outdoor signs for your buildings and for job use.

... these and many more — all working to bring you customers.

APRIL 1953

And Barrett support does not stop there! National advertisements make homeowners conscious of the value, both in beauty and protection, of a new Barrett roof. They stress the importance of purchasing from recognized Barrett dealers—for application by Barrett Roofers.

If you are not yet tied in with Barrett—ACT Now! You get greater profits when you handle Barrett—famous for fine building materials for almost a century.

Building *your* business... is the business of



Reg. U. S. Pat. Off.

BARRETT  **DIVISION**
 ALLIED CHEMICAL & DYE CORPORATION
 40 Rector Street, New York 6, N.Y.
 205 W. Wacker Drive, Chicago, Ill.
 36th St. & Gray's Ferry Ave., Philadelphia 46, Pa.
 1327 Erie St., Birmingham 8, Ala.

421

THE *Original* FOOD WASTE DISPOSER

IN-SINK-ERATOR

WITH

*Reversing
Action*

CONTACT YOUR
LOCAL PLUMBING
SUPPLIER

IN-SINK-ERATOR MFG. CO.
RACINE, WISC.

ARROW GUN TACKER

AUTOMATICALLY REPLACES HAMMER AND
NAILS AT TRIGGER-RATE SPEED!

Uses staples up to
9/16" leg.

Ideal for applying ceiling
tile, cornerite, insulation,
building paper, roofing felt,
paper, roofing felt, under-
decking, etc.

Model T-50

Sold only thru dealers

Write for literature

ARROW FASTENER COMPANY, Inc.

1 Junius Street Brooklyn 12, N. Y.



**NoDrip
TAPE**

STOPS DRIP

Condensation drip from cold water pipes is a menace—damages merchandise—rusts pipes and costly fittings—makes floors slippery and dangerous.

NoDrip Tape forms a tight, moisture-proof jacket around pipes and joints. Turns idle space into dry room for work, play, storage, etc. Apply with your hands—no tools, clips or adhesives needed.

Roll covers about 10 feet of 1/2" i.d. iron pipe or 13 feet of 1/2" o.d. copper tubing. **\$1.69**

Higher west
of Rockies
and Canada

Get at Hardware, Plumbing, Dept. Stores,
Mill Supply and Refrigeration Supply Jobbers.

Write for Circular

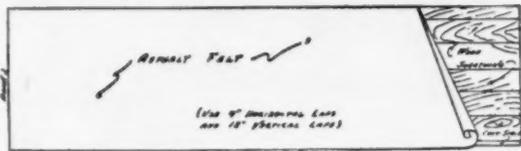
J. W. MORTELL CO.
Technical Coatings since 1895
505 Burch St., Kankakee, Ill.

422

asbestos-cement shingle application . . .



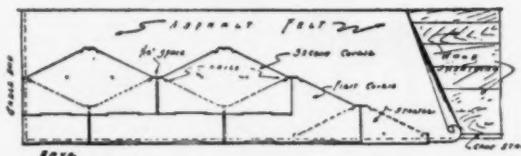
CANT STRIP: Formed after deck has been prepared by applying 1/4x1 1/2-inch wood lath over wood sheathing along edge of eaves



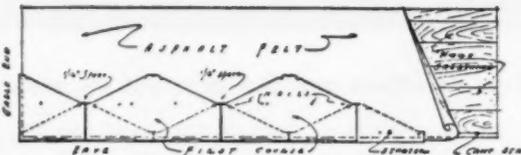
ASPHALT FELT: Cover entire roof deck with asphalt-saturated felt, allowing 4-inch horizontal laps, 12-inch vertical laps and 12-inch laps at all valleys, hips and ridges



STARTER COURSE: Lift up felt along eave and apply a full size starter shingle to overhang rake and eave 1-inch. Use four nails per shingle, 1 1/4-inch for new work, 2-inch for re-roofing. Next starter goes parallel to eave with 1/16-inch space between vertical edges of shingles



FIRST COURSE: Begin with half shingle, edges projecting 1-inch over eave and rake. Use four nails per shingle; do not drive nails home. Next apply full-size shingle parallel to eave.



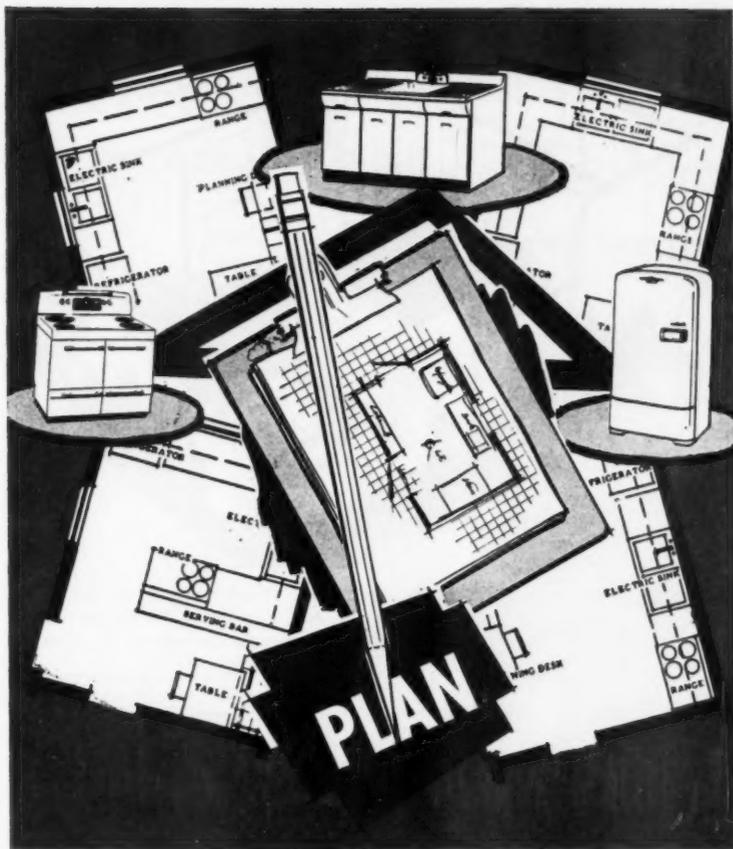
SECOND COURSE: Start at rake with full-size shingle, aligning right hand vertical edge and horizontal shoulder with center of notch in top joint of first course shingle



RIDGE AND HIPs: For roll-type hips and ridges apply 1x2-inch furring strip on edge. For Boston type hips and ridges apply 1x2-inch furring strips flat along both sides of hip and ridge

Asbestone Corp.

AMERICAN BUILDER



Plan kitchens for an efficient arrangement of equipment, with ample work surface adjacent to each work center. Sufficient storage space should be located near each major appliance, planned to fit the particular needs and habits of the family—and the cook. Try to keep traffic patterns clear of work areas, and make economical use of any remaining space

Successful home builders have long realized that a satisfactory kitchen puts "plus value" in a house offered for sale, reducing sales costs and making the purchaser better satisfied over the years.

Planned Efficiency

Work measurement and methods analysis applied to the kitchen have revealed that half the walking in preparing a meal is between range and refrigerator. Because more trips are made from dining area to kitchen during clean-up than in serving, door to dining area should be close to sink with work space by the sink.

There should be at least 36 inches of work space by the refrigerator on the opening side, 18 inches by the range, and 36 by the sink, preferably divided on either side.

Storage space is calculated in a minimum basis of 6 square feet of wall cabinet for each permanent resident of the home, plus 12 square feet for accumulation and entertain-

ing. Figure one person per bedroom plus an extra person for master bedroom.

Base cabinets should occupy all open space beneath wall cabinets. Actual practice has shown that for greatest efficiency there should be between four and a half and five and a half feet of counter between sink and refrigerator, and between three and four feet between sink and range.

Clearance Dimensions

Clearance of 18 inches is best between counter surface and bottom of wall cabinets. Cabinets above range should have 22 inches clearance. Major appliances are from 24 to 28 inches deep; to clear them, any door opening should be at least 30 inches from the corner. 48 inches clearance for a door next a range is desirable.

The distance between a window opening and a corner should be at least 15 inches because standard flat wall cabinets are about 13 inches

KITCHEN EQUIPMENT HOME APPLIANCES and BUILT-INS

Planning Kitchens

- Efficiency
- Arrangements
- Modernization
- Specialties

Kitchen Equipment

- Fixtures and Built-ins
- Cabinets and Sinks
- Ranges
- Refrigerators and Freezers
- Counters and Tops
- Fans and Ventilating
- Dishwashers
- Disposers
- Unit Kitchens

Laundry Equipment

- Washers
- Dryers
- Ironers

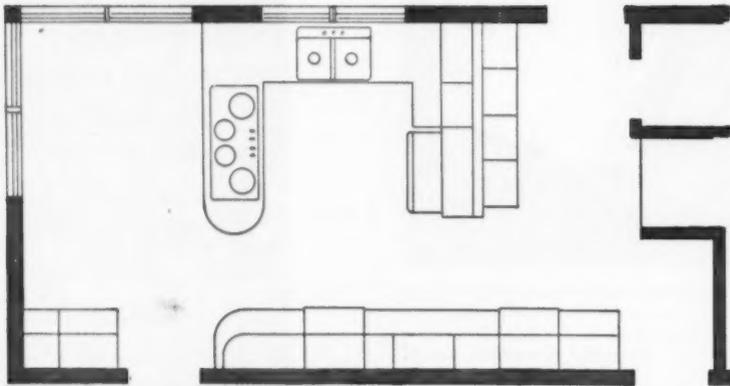
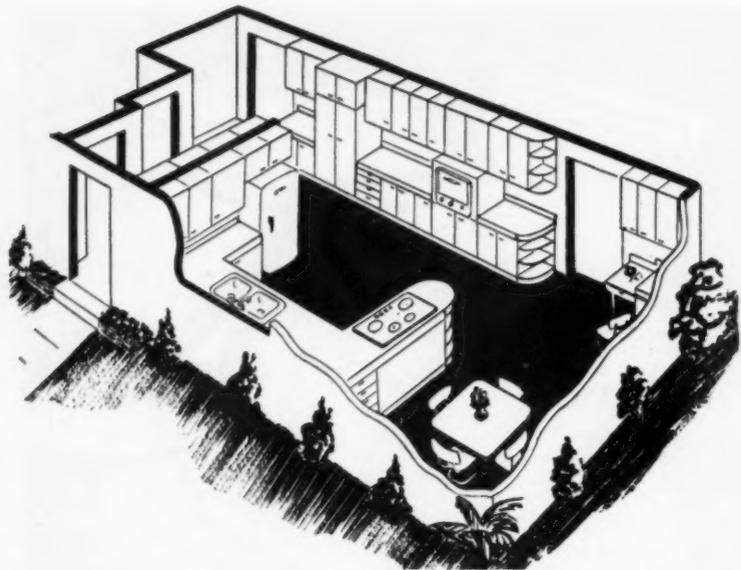
FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.

wall cabinet arrangement . . .



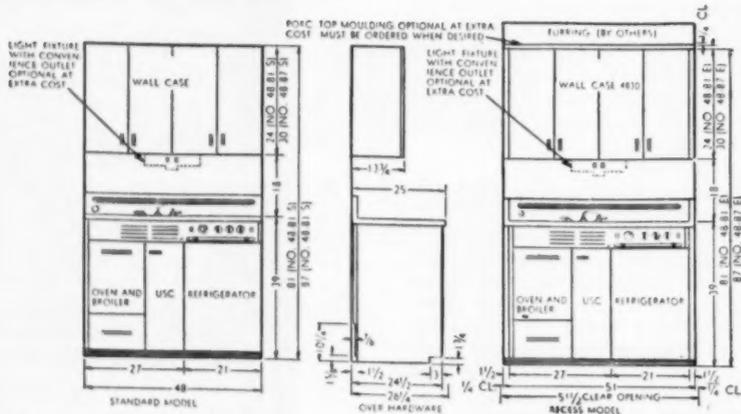
Wood wall cabinets provide convenience for kitchen in ranch type home. Wall cabinets are available from 12" to 30" in width and base cabinets in similar sizes. A wide range of special fixtures adds to efficiency

Long-Bell Lumber Co. Data



Wood wall cabinets are made with either stationary or adjustable shelves to fit the housewife's needs. Special sections are made to fit surface cooking units, modular ovens, above and around refrigerators and counters and other kitchen units

cabinet unit kitchen . . .



Courtesy Dwyer Products Corporation

Furring and over-all dimensions and specifications of this unit kitchen indicate the possibilities inherent in such units for application in limited space. Recessed model is specifically designed for installation with building walls adjacent to sides of the unit kitchen. The sink and range top backrail continues around each end, eliminating cracks between work surface and recess walls

in depth. Underside of window sills should be at least 44 inches from floor to provide space for back-splashes.

Kitchen Arrangements

The four basic types of modern kitchen arrangement include the U-shape, the L-shape, the one-wall type, and the corridor layout. The conventional "u" is usually found to be most efficient. Placing the sink under a window on the center wall will save the most steps.

refrigerator - freezer



Courtesy Nash-Kelvinator Corp.

Two doors open to units with two different temperatures in this 9.4 cu. ft. model combining freezer and refrigerator. Separate controls keep both humidity and temperature at desired levels. Self-defrosting feature of lower compartment is popular with home makers. 28 1/4 inches wide and 59 inches tall, the unit fits the same space as many older models

plan an
open-plan kitchen
in natural birch
with
new Curtis

Woman-Designed
cabinets

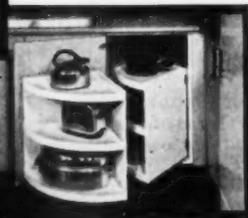
Kitchen and laundry—or kitchen and breakfast nook—can be on intimate terms when you choose one of the *new* Curtis kitchens. Woman-designed, these smart, flush-faced wood cabinets embody 53 beauty and convenience features which women want. Available either in natural birch or finish-coated in white, ready for decoration, they offer you almost unlimited planning flexibility for any size or shape of kitchen. Hardware is furnished and hinges applied.



New Curtis Base Island Unit has double doors on both sides so two trays and sliding table are accessible from either side. Center partition in bottom.



The new Curtis Tray Units are available in 9 widths with double doors in 24" and over. Suitable for linen or pan storage. All trays dadoed for dividers.



Base Square Corner Unit equipped with new style swing shelves—and how the women love them!



Step-saving hanging units have shelves accessible from both sides. Shelves have safety rests and are easily adjustable in height. The new Curtis kitchens were designed, tested and approved by outstanding home economists.



Curtis makes a complete line of architectural woodwork and Silentite windows for homes of all types and sizes. Make your next home "all Curtis."

Get All the Facts for Your File—Mail the Coupon!



Curtis Companies Service Bureau
AB-4, Curtis Building
Clinton, Iowa

Please send booklet on the new Curtis woman-designed kitchens.

Name.....

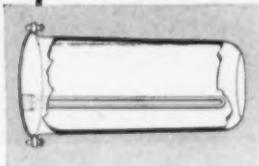
Address.....

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

Build-in Apex Appliances... the Top-quality Line that competes on price!



APEX DISH-A-MATIC SINK.
This modern, automatic dishwashing center, streamlines any kitchen. Does a complete service for 6 to 8. Overall dimensions: 48" wide x 25" deep x 36" high, plus 4" splash panel.



BUILT-IN 4-GALLON TANK.
Every Apex DISH-A-MATIC Automatic dishwasher has this Apex Molded "Lifetime" Fibre-Glass Hot Water Tank. It maintains a constant supply of 180° hot water for hygienic dishwashing.



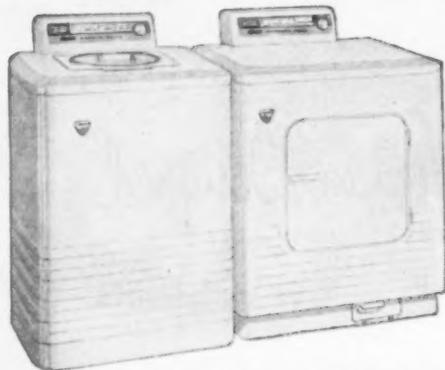
APEX CABINET MODEL. This popular model has all the deluxe DISH-A-MATIC automatic dishwashing features... built-in tank, "whirl-scrub" cleaning action, forced air drying, double-rinsing. Overall dimensions: 24" wide x 25" deep x 36" high, plus 4" dial panel.



APEX CUSTOMIZED MODEL... is a "drop-in" DISH-A-MATIC dishwasher for custom installation in any kitchen counter work surface. Control Dial Panel can be mounted on wall or splash panel at top-rear, or on front of cabinet. Overall dimensions: 24" wide x 24" deep x 36" high.



APEX WASTE-A-MATIC... disposes of food wastes electrically, is completely odorless, self-cleaning, and clog-proof. Pulverizes all food wastes. (Optional equipment on DISH-A-MATIC Sink)



New Apex Matched Laundry Set

The incomparable WASH-A-MATIC Automatic Clothes Washer, and the superb, new Apex (Gas or Electric) Clothes Dryer are styled to match in beauty and performance. "Teamed-up", they streamline utility room or basement laundry centers; are easy to install and give perfect, vibration-free performance. Dimensions: Washer, 27" wide x 28 1/4" deep x 36" high, plus 4 3/4" control panel; Dryer, 30" wide x 27" deep x 36" high, plus 4 3/4" control panel.

APEX SPIRAL TUB AGITATOR... is Apex-Molded of "Lifetime" Fibre-Glass, won't rust, chip or corrode. Its unique pulsating washing action washes clothes gentler, more thoroughly, with 25% less fabric wear.



APEX GIANT SUN-GLOW DRYING ELEMENT. This big heating element is an exclusive Apex feature. Sanitizes as it dries the clothes with infra-red rays, safely, and uniformly with its thermostatically controlled drying rate.

Apex

THE APEX ELECTRICAL MANUFACTURING COMPANY
CLEVELAND 10, OHIO

Write today for complete installation data; check your selection and fill in your name and address below:



Name

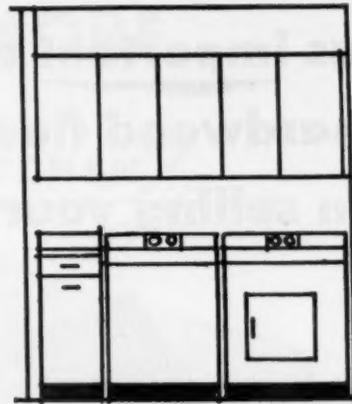
Address

City State

Builders Specification Booklet

DISH-A-MATIC Roughing-In Manual

"We don't believe in work for Women!"



ELEVATION "A"

Plan above and elevation at right show how little space is actually required by modern laundry appliances in fitting up laundry section of modern kitchen-utility plan for ranch type home. Cabinets above equipment provide space for storage of soaps and detergents, laying folded clothing, and storage of overflow items from cabinets in kitchen proper

Courtesy General Electric Co.

The "L" must have storage, preparation, cooking, and cleaning work centers in proper sequence to be most efficient. The opposite walls are commonly used for breakfast nooks or laundry areas.

Wiring the kitchen today is most important, as a breakfast involving the use of toaster, grill and electric coffee maker might demand as much as 4,000 watts. If laundry equipment is in the same room, demand loads may be even heavier.

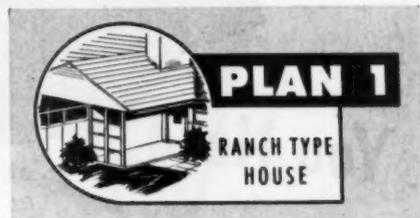
Floor and wall coverings should be durable, easy to clean. Critical

to successful planning is the exact measurement of all dimensions so that no odd spaces occur which either require filler units or become dirt catchers.

Remodeling

Remodeling enables builders to contact new clients, maintain contacts with old customers, and maintain continuous sales promotion activities.

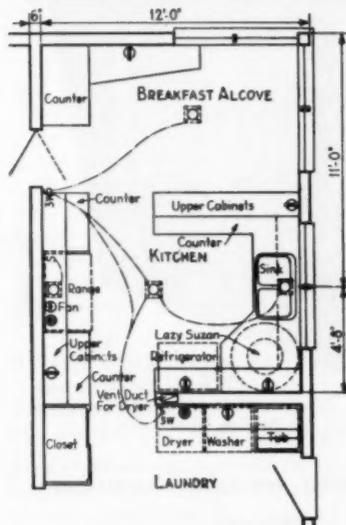
Appliance manufacturers have prepared numerous sales tools and



planning aids that simplify the process and make sales easier.

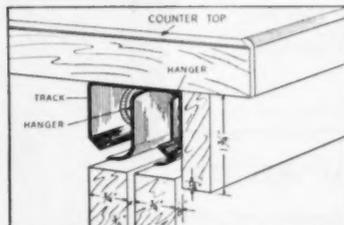
In making preliminary sketches, be sure all dimensions are exact; locate water sources and present wiring; note swing of doors that open into room; check heights of window sills and ceilings. Get dimensions of any present appliances that will remain. Check the entire plan carefully with the customer.

special features in kitchen cabinets . . .

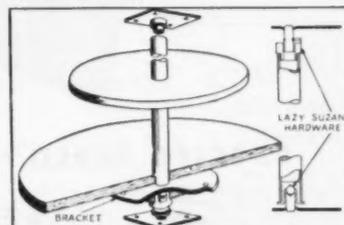


Courtesy Washington Steel Products, Inc.

Convenience in this kitchen is increased with metal drawers, sliding shelf hardware for mixer shelf, spice and package shelves, revolving corner unit, and accessible towel storage



Sliding door hardware such as this makes an easy task of constructing special units such as the Fade-Away mixer shelf and other convenient units



The "lazy-Susan" revolving corner unit is easily accomplished with this economical pivot hardware. A large ball bearing carries the load and insures smooth operation



Courtesy General Electric Company

Picture of installation shown in elevation of plan above, showing how cabinets and efficient equipment layout make laundry-utility area easy to keep clean and orderly

**as important as
hardwood flooring
in selling your new homes...**



You Need

**FASCO Ceil-n-Wall
VENTILATING FANS**

FASCO Ventilating Fans' quieter, power-plus performance can make your homes more salable. Value-wise, sales-wise . . . they're as important as hardwood floors. Customer-preferred Fasco Ventilating Fans add a real sales punch! Every Fasco Ceil-N-Wall Ventilating Fan you specify *proves* you build extra quality houses.



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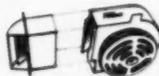
Heart of the Ceil-N-Wall. Impeller is designed to deliver exceptionally high air volume through long ducts and elbows and against high static pressure. Impeller disc and baffle plate prevent air recirculation. Extremely quiet in operation.

FREE Get all the facts on the complete Fasco Ventilating Fan line. Write today.



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SPECIFY FASCO FOR EVERY VENTILATOR INSTALLATION



MANUFACTURERS OF THE ONE COMPLETE LINE OF VENTILATING FANS

HOW TO SELL MORE

LONG-BELL



KITCHEN

Cabinets



The strongest seller through lumber dealers in kitchen cabinet history

One look at this four-color, beautifully printed folder—and other new Long-Bell literature—and the lady of the house will immediately see herself in the picture. The picture: Long-Bell cabinets of her choice in her kitchen!

This new literature, which is part of Long-Bell's Kitchen Cabinet Merchandising plan, will prove one of the most effective sales tools you've used in a long time. These books describe to your customers all the Long-Bell cabinet features; explain the

three-inch units of measurement for a fit without "fiddling around"; show different finish arrangements.

It will mean sales to you to point out to potential customers the low cost and versatility of Long-Bell cabinets. Wood cabinets mean less kitchen clutter.

The homeowner has complete range of decorating schemes. Beautiful rift grain wood can be had in natural finish or painted in color.

Let us send you samples of this new "selling-tool-packed literature." Get all the details of the complete Long-Bell Kitchen Cabinet Merchandising Program. Use the handy coupon below.

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APRIL 1953

LONG-BELL LUMBER COMPANY
Longview, Washington

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PLAN 2

RANCH TYPE HOUSE

steel kitchen layout . . .

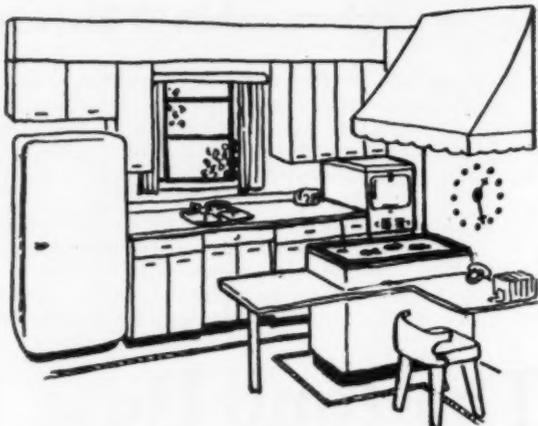
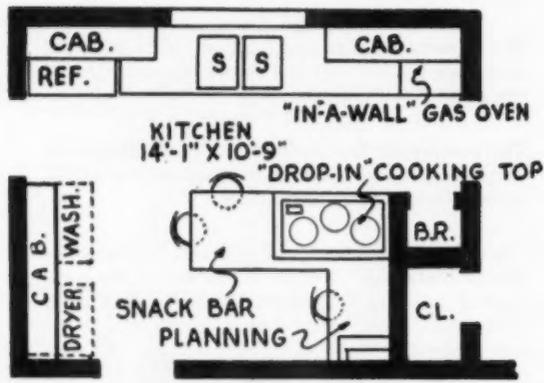


Layout by Mullins Manufacturing Corporation

Doors of both base and wall cabinets are hinged for greatest convenience for access to storage space in this modern kitchen layout. Rolling door cabinets hang under conventional steel wall cabinets to add convenience to storage of small items. Wall cabinets mounted above laundry appliances provide necessary work and storage space for that activity

Kitchen plan for No. 2 ranch type home provides generous work and storage space. Combination dishwasher-sink has food waste disposer. Note work area adjacent to opening side of refrigerator

. . . built-in ovens and cooking tops



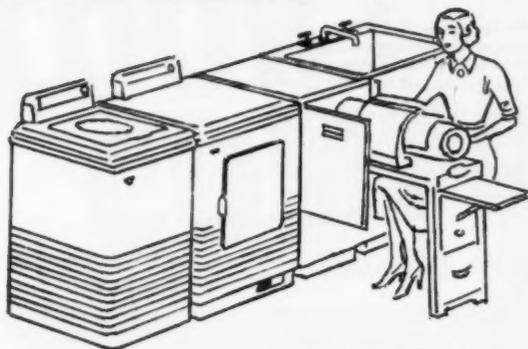
Layout and data by Chambers Corporation



Drop-in cooking top and in-a-wall oven are features of this kitchen plan for No. 2 ranch type home. The convenience of peninsula snack bar to cooking top highlights the flexibility of arrangements possible with these fixtures for decentralized cooking. Heavy insulation built into the oven is the basis of "retained heat" cooking which makes for fuel economy. Drop-in cooking top fits into a waist-high counter top, where wide work surface increases efficiency

Double built-in cooking top in an island arrangement with oven mounted on base cabinet next to the sink is a feature of this modern kitchen in the home of L. T. Kagawa, Honolulu. Cabinets in kitchen at left by Tracy

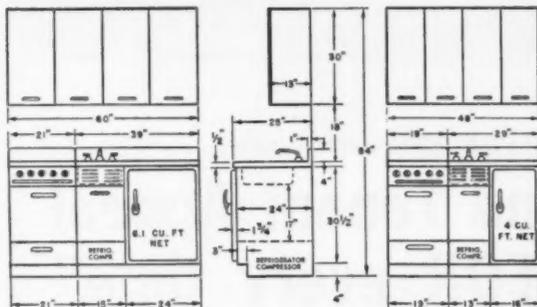
space-saving laundry . . .



Courtesy Apex Rotarex Corporation

Laundry space in plan for ranch type house No. 1 allows three basic components of laundry to sit along one wall and still make space for necessary laundry tray. Supplementary equipment useful in the home laundry might well include stain removing agents, convenient work table, small mending kit, and possibly sewing machine as well as the usual starch, bleach, bluing, and detergents. Fold-away ironer provides convenience of complete laundry operation in minimum space

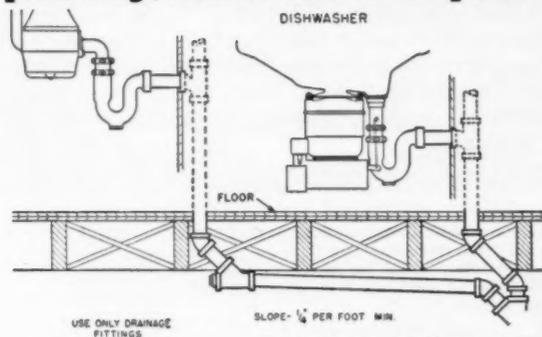
efficiency kitchen . . .



Courtesy Douglas Crestlyn International, Inc.

Efficiency kitchen for apartments and small homes makes possible maximum use of remaining space for other living. Housewife has a minimum of steps to take in food preparation, cooking, and cleaning. The unit in its several sizes may be used alone or in combination with other kitchen appliances and cabinets to make up an efficient working area.

plumbing connections for disposer



Courtesy General Electric Company

Local codes and good sanitary practices must be observed along with manufacturer's instructions in installation of waste disposers. Typical drain connections for GE Disposall, above, show unit installed with dishwasher not equipped with a drain pump assembly. Drain line from washer should enter branch drain from top. 1 1/2" is minimum drain pipe size from waste disposer.

APRIL 1953

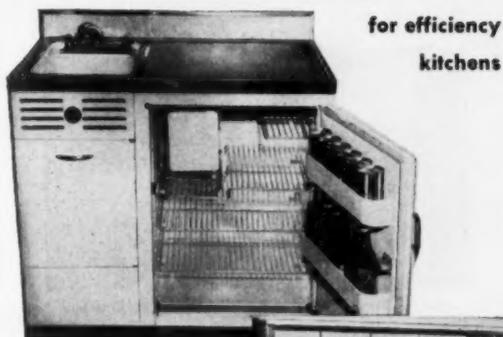
Save space and money!

WITH THE LARGEST UNDER-COUNTER REFRIGERATOR: 6 cu. ft.!

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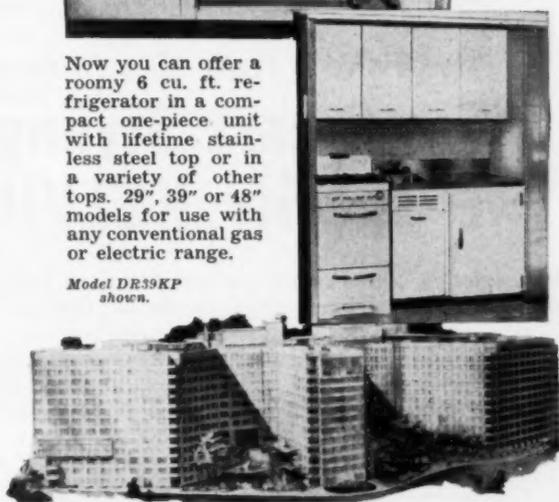
REFRIGERATOR-SINK COMBINATION



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kitchens

Now you can offer a roomy 6 cu. ft. refrigerator in a compact one-piece unit with lifetime stainless steel top or in a variety of other tops. 29", 39" or 48" models for use with any conventional gas or electric range.

Model DE39KP shown.



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More room for living when you install a complete kitchen in as little as 8 sq. ft.! Take a tip from Washington's newest showplace, the 1131-unit Woodner, largest apt. building of its kind in the world! 751 Douglas Crestlyn units cut down costs for the Woodner without cutting down luxury! Widely used by builders all over the world!

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431



The luxurious Paliade House, overlooking the Hudson River in the Riverdale section of New York City. This project will have 130 apartments.

The spacious Barclay House Apartments in Flushing, Long Island. There will be 205 apartments in this project.



Charles Kibel, Builder



Henry Kibel, Architect



Take it from this famous father-and-son team...

"For Smart Styling and Tenant Appeal we specify KELVINATOR every time"

The plans for these two great projects have just been completed by Henry Kibel. His father, Charles Kibel, is ready to begin construction early this spring.

Both projects have been planned for maximum tenant appeal. That's why, when it came to specifying refrigerators, the Kibels' choice was the same as it has been for twelve years—Kelvinator. Henry Kibel puts it this way: "Kelvinator packs a lot of

features and space cubage into an expertly-designed cabinet. One of the new models we've ordered provides 9 cu. ft. of storage space in a cabinet only 28 $\frac{1}{4}$ " wide. All this space together with the full-width freezer and shelves in the door appeal strongly to tenants. And the Kelvinator name in the specs is a great help, too."

Before you order refrigerators, make sure you check into Kelvinator first. For full information on refrigerators—and all other products in Kelvinator's expanded new line—write Dept. AB-4, Kelvinator, Division of Nash-Kelvinator Corporation, Detroit 32, Michigan.



One of the many fresh, functional features found in the new Kibel projects is the "pass-through" which links the kitchen to the dining area in a delightful, practical, but unobtrusive way. Note the handiness of the refrigerator and range to the serving counter, as shown in this architect's sketch.

IT'S TIME TO GET *Kelvinator* AND BE YEARS AHEAD!

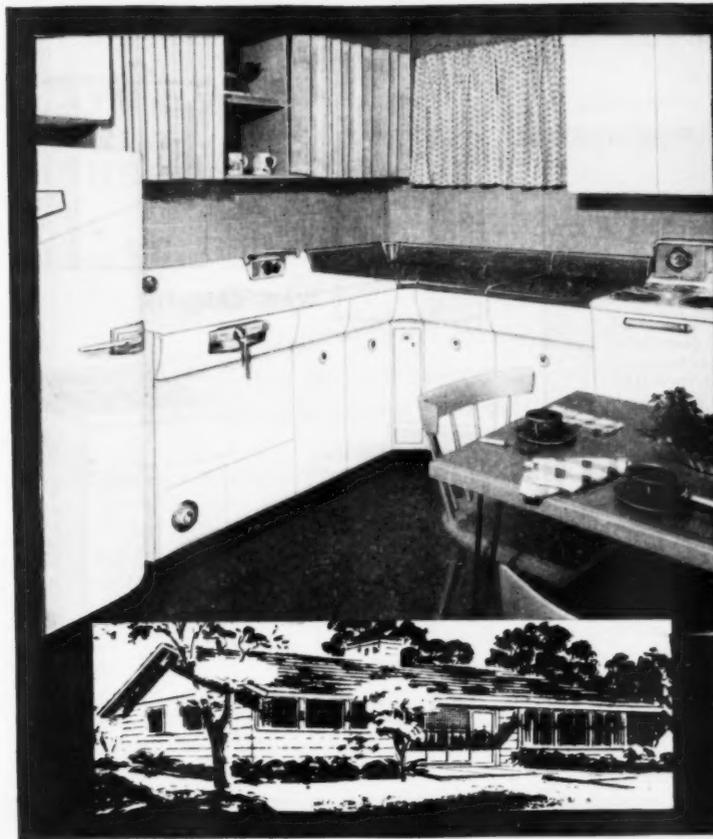
Division of Nash-Kelvinator Corporation, Detroit 32, Michigan

Refrigerators • Ranges • Freezers • Water Heaters • Washers & Ironers • Kitchen Cabinets & Sinks • Garbage Disposers • Room Air Conditioners

LOOK! COMPARE!

See Why Gunnison Homes Use

American Kitchens



Builders of the famous Gunnison Homes know how important the kitchen is in selling their homes. That's why they use American Kitchens.

Here is the kitchen that women want most, the kitchen that helps sell homes faster! Superior construction, heavier gauge steel, expensive sound-proofing, and exclusive body-contour design are some of the many features that save hours of kitchen work. Why don't you find out what American Kitchens can mean to the salability of your homes!

Compare construction, design, work-saving features... and then choose American Kitchens!

LOOK—COMPARE FEATURES LIKE THESE:

1. Easy-to-clean, smooth surfaces with no dirt-catching handles.
2. One-piece tops of life-time vinyl, no seams to catch dirt.
3. Sink bowl 15% larger—no dirt-catching ledge.
4. Rounded, one-piece drawers that clean as easily as wiping out a bowl.
5. The American Kitchens Roto-Tray Dishwasher, the most modern dishwasher on the market today, washes dishes 3 times cleaner.

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New MURRAY



Smart
Contour
Styling

with instant
appeal to
the feminine
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CABINET SINKS

The 66" DeLuxe twin bowl

MURRAY CABINET SINKS



END SECTION, ALL SINKS.



66" DELUXE TWIN — also available in standard model with two drawers.



34" DOUBLE DRAINBOARD DeLuxe Sink — also available in two drawer model.



42" TWIN — also available with deep bowl on left; with two deep bowls; with two shallow bowls; with single bowl, left or right.

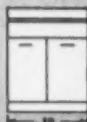


UNDERSINK FALSE cabinet converts sink to cabinet sink.

MURRAY BASE CABINETS



END SECTION, ALL BASE CABINETS



TWO-DOOR CABINETS also in 21", 24", 27", and 36" widths; SINGLE-DOOR Cabinets also available in 15" width.

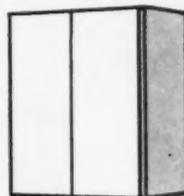
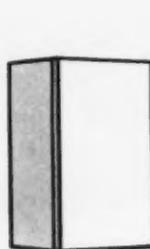
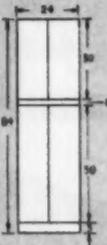
MURRAY WALL CABINETS



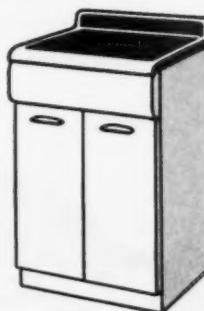
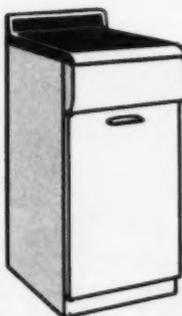
30"-HIGH WALL CABINETS — 2-door models also in 21", 24", 27" and 36" widths; 1-door models also in 15" width. Single doors hinged left or right.

18"-HIGH WALL CABINETS — single-door model hinged left or right; 2-door models also in 21", 24", 30" widths.

BROOM CLOSET — 13" deep.



WALL CABINETS



BASE CABINETS

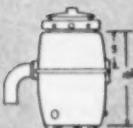
NEW! WOOD COUNTER TOP



15" or 18" wide with 3" integral back-splash. One-piece laminated edge-grain maple. Also regular plastic cabinet tops, 15" to 36" wide, in wide range of colors.

PLUS GLASS END SHELVES, BASE AND WALL FILLERS, FALSE CORNERS AND END PANELS, AND A FULL LINE OF FLAT-RIM AND ROLL-RIM SINKS.

NEW!

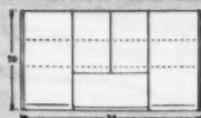


MURRAY FOOD WASTE DISPOSER

Continuous feed, extremely quiet. Small, lightweight. Simple, one-man installation!

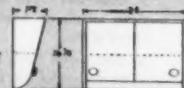
NEW!

34" WALL CABINET CLUSTER



Four doors, two solid fixed shelves, plus exterior utility shelf. 30" height, 13" depth — matches other wall cabinets' dimensions.

NEW! CONDIMENT CABINET



Mounts under wall cabinet. Two sliding doors with chrome knobs. Also available in 30" width.

builder department

Geared to
give your
houses extra
sales appeal!



Builders across the country hail new program of co-operation in planning, promoting and pricing Murray kitchens for new construction.

Murray's new Builder Department is staffed by men of sound practical experience. Headed by the well-known C. J. ("Phil") Filson, these experts can really do a job on a builder's planning and selling problems. Depend on them to come up with a winning answer!

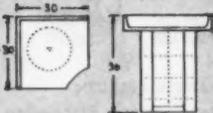
Builders can turn to these able Murray men for real help in planning outstanding sales appeal for small space and limited budget—for aid in getting out the right promotional material on a building project, large or small—and for co-operation in speeding the supply and streamlining the price of Murray kitchen units.

See—*compare*—the Murray line before you decide. In styling these modern beauties we've taken to heart the popular slogan "Never underestimate the power of a woman." You've got to sell a woman if you're going to sell a home—so send coupon today and see what an edge Murray gives you in style and sales appeal!

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**NEW! "LAZY SUSAN"
CORNER BASE CABINET**



Three 20½"-diameter revolving shelves with vertical flange at outer edge. Semicircular door is mounted on shelves.

**NEW! "LAZY SUSAN"
CORNER WALL CABINET**



Three 20½"-diameter revolving shelves with vertical flange at outer edge, 15" door. Also available: corner wall cabinet with fixed shelves.

The Murray Corporation of America

Home Appliance Div. Sales Offices, 7700 Russell, Detroit 11, Michigan

Please let me know in detail how the Murray Builder Dept. is geared to help me.

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SMALL OR SUMPTUOUS—they're alike in one respect...

THEY HAVE ELECTRIC RANGES!



One house shown here sold for under \$10,000. The other was in the upper-income class. But both had what all types of home buyers want—*Electric Ranges* in the kitchen. They've learned that cooking electrically is both economical and easy, and assures a clean, cool kitchen. No matter what the size or cost of *your* houses, one item of equipment that will really help you make them sell is the *Electric Range!*

According to Mr. Joseph P. Lenny, who built this small home in Runnemede, N. J. (he sold 25 the day he opened his model house)—“In my experience, most home buyers can't resist an all-electric kitchen. And the kitchen can't be all-electric without an *Electric Range*. Although my homes are moderately priced, I offer this plus item and it helps me stay ahead of the field.”



Mr. Harry LeVelle, builder of this large home in Chevy Chase, Md., says, “90% of my home sales are to women who love the all-electric kitchen. They want to work in such a kitchen, although you might think that homemakers in such families would not be doing their own work.”

Among the appliances that help the homemaker to achieve gracious living in the Chevy Chase home is the modern, automatic range, and—of course, it's **ELECTRIC!** Mr. LeVelle, the builder, is convinced that the electric kitchen is his greatest sales factor.



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IN
Steel Cabinets



The illustration consists entirely of Harrison Standard Cabinets

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contemporary design...superior construction and finish demanded for luxury kitchens!

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the deluxe custom-type features required for modern interiors...at standard prices!

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- STANDARD cabinets in COLORS

AVAILABLE IN THESE
COLORS AND GRAINS

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|----------------|----------------|
| sunrise pink | natural oak |
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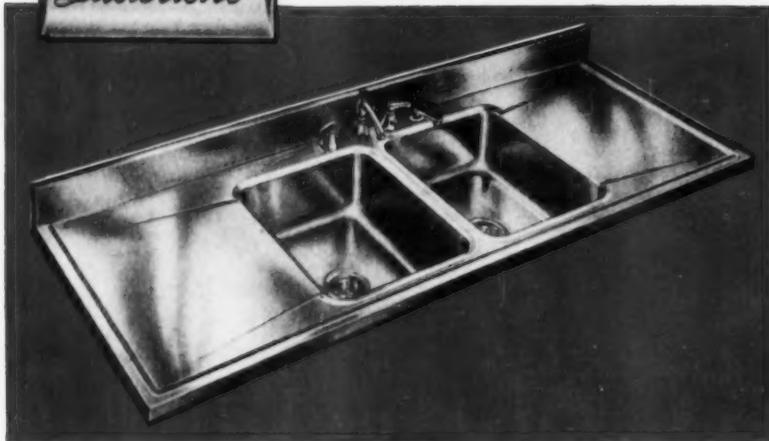


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For Smart Appeal and Permanence include ELKAY *Lusterone*; the only sink guaranteed to outlast the home in which it's installed. The sterling beauty of *Lusterone* is an unmistakable mark of quality that reflects confidence in the builder—inspires a buying urge in every prospect. Find out about the new low prices on *Lusterone* stainless steel sinks—see just why it's an investment in sales appeal and permanent satisfaction you can't afford to leave out of your plans.

For Color—Convenience—Economy you can count on ELKAY *Duratone*, the all-new sink and cabinet top that combines colorful *beauty bonded FORMICA* with a permanent, rustproofed steel core. Custom-built in any size and shape—furnished with or without famous *Lusterone* sink bowls, or finished to combine with any sink. For the first time ELKAY brings you the economies of a factory-fabricated *Formica on steel* top with a guaranteed bond. Design better kitchens with *Duratone*.



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The World's Oldest and Largest Manufacturer
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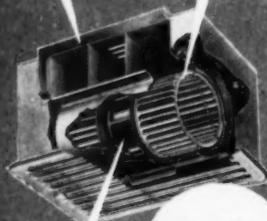
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give you all 5
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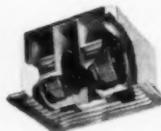
**FIVE YEAR
GUARANTEE**
insures top
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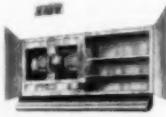
MODEL 1201
100 C.F.M. for bath-
rooms—time delay
switch optional.



MODEL 1501
300 C.F.M. for average
kitchen, laundries,
dens.



MODEL 2501
425 C.F.M. for large
kitchens and other
rooms up to 2000 cu. ft.



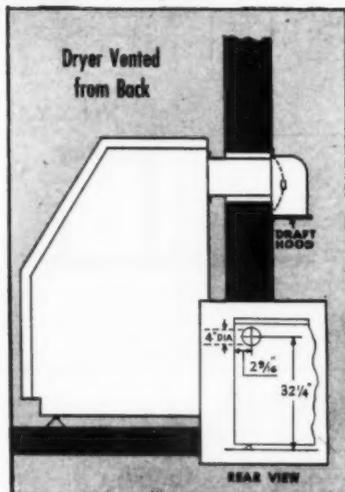
MODEL 3501
550 C.F.M. for instal-
lation in cabinet over
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**TRADE-WIND
MOTORFANS, INC.**

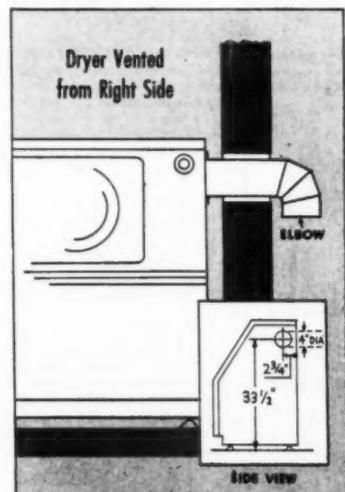
5705 S. Main Street, Los Angeles 37, Calif.

AMERICAN BUILDER

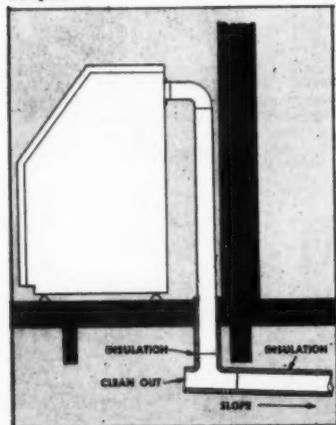
three ways to vent clothes dryer . . .



Dryer in inside room is vented through floor. Vertical duct is insulated, as is horizontal duct which drops towards outside wall



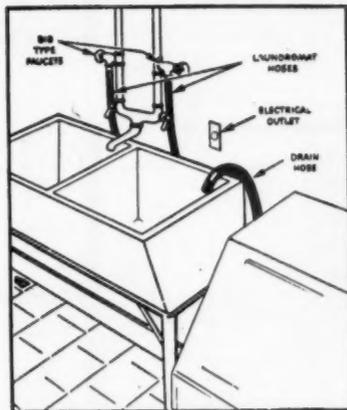
Dryer vented directly from back through wall has vent pipe attached to flue collar adapter



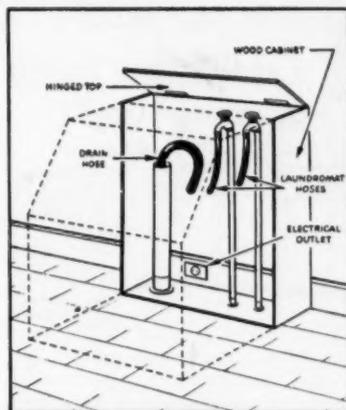
Similar venting from side of dryer has insulation around vent pipe where it passes through wall

Westinghouse Data

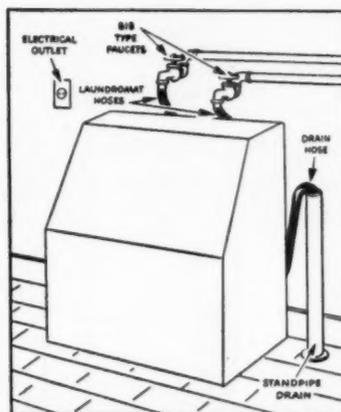
automatic washer installation . . .



BASEMENT INSTALLATION with double laundry tray has hose connections from hot and cold water lines

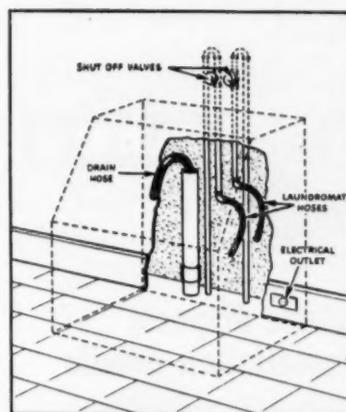


BUILT-IN INSTALLATION has pipes concealed in wall for hose connections and drain hose



STAND PIPE INSTALLATION has hot and cold lines running to hose connections with stand pipe drain for drain hose

Westinghouse Data



CONCEALED INSTALLATION has wood cabinet built around hot and cold water pipes and standpipe drain to improve appearance



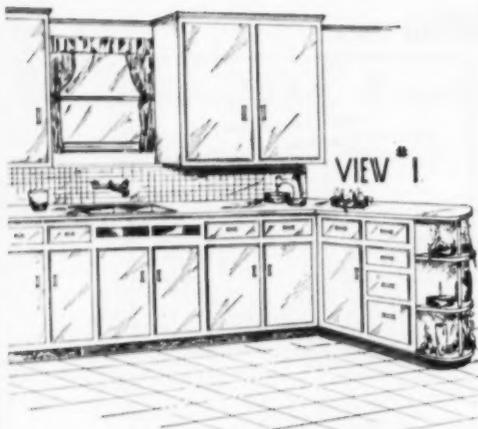
Courtesy Maytag Company

Dutch Oven gas range features divided top, center oven, cabinet base, oven thermostat, and flush-to-wall construction. Additional features optional include cooking well, automatic oven lighting, oven window, lamp, drip trays



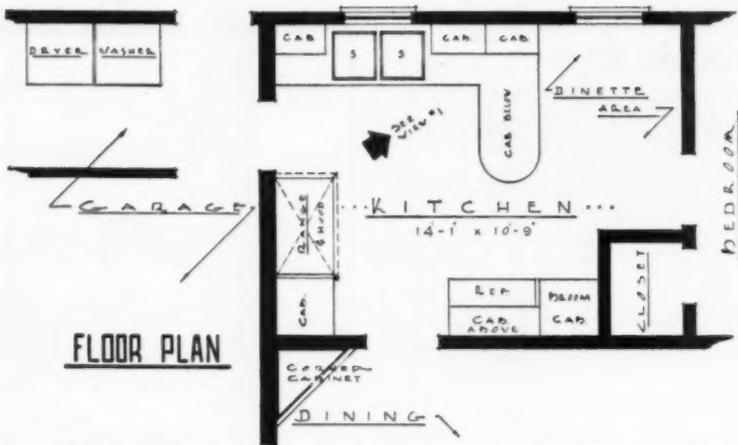
Nash-Kelvinator Photo

30-inch range has extra-large oven, seven-stage heating units for surface cooking, automatic clock and oven control with preheat cutoff. Electric appliance outlet, top floodlight and full width utensil drawer are also standard features



Layout and view by The Ideal Co.

Moving dryer and washer into the end of the garage to create separate laundry area opens up this kitchen plan for more convenience and enjoyment. Millwork cabinets combine with modern appliances to create an atmosphere of charm and warmth.



FLOOR PLAN

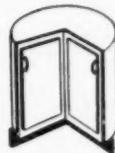
buyers like kitchen cabinets with . . .



BEVERAGE STORAGE UNIT has roller bearing shelves with compartments for bottle storage. Door fitted with key lock.



RANGE HOOD fits over cooking area on bottom of cabinet. Trade-Wind ventilating fan operates inside cabinet.



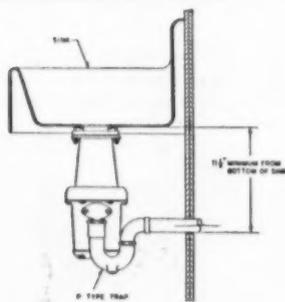
REVOLVING CORNER BASE UNIT for storing bulky equipment. Rotates in complete circle in either direction.



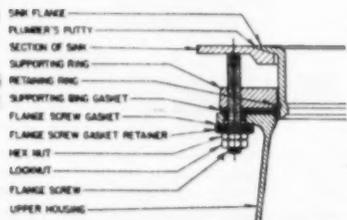
PLAN 2

RANCH TYPE HOUSE

waste disposer installation details



Installation with trap under sink and pipe leading into wall will have cavity free of waste water when not in use due to the 11 1/2" minimum from pipe to bottom of sink. Section shows parts used to assemble unit to cast iron sink. Check for leak-proof fit before using unit.



Westinghouse Data



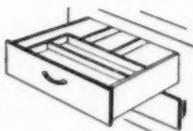
UTILITY UNIT permits storage of brooms, mops, vacuum and like items, or may be used as clothes closet.



OVER REFRIGERATOR UNIT has changeable shelf for adaptation to varying needs as shown in illustration above.



REVOLVING CORNER WALL UNIT is similar in design to the base unit shown left. Also saves space ordinarily wasted.



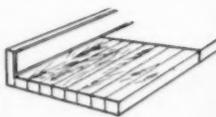
PARTITIONED DRAWERS provide convenient, safe, sanitary storage for cutlery. May be fitted with removable sliding tray.



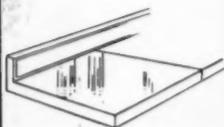
SLIDING WIRE SHELVES give full view of contents. Permit greatest adaptability in storing food and utensils.



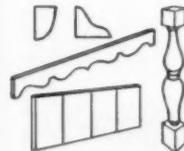
STORAGE RACKS — 1. Step shelves for small condiment containers. 2. Holds pan lids on inside door. 3. For soaps and scouring powder.



MAPLE CHOPPING BLOCK may be inserted any place in top. Convenient for cutting meats, vegetables, slicing bread.



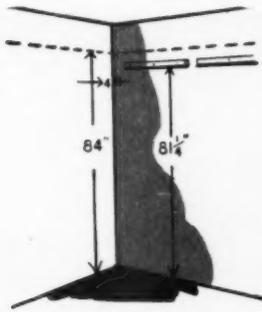
STAINLESS STEEL INSERTS in counter top near range provide handy place for hot utensils. May be any size desired.



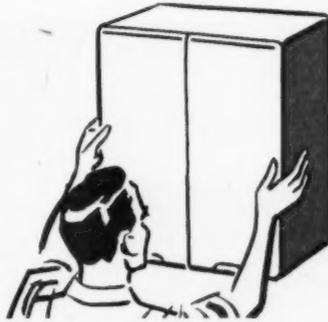
CUSTOM VALANCES, moldings, furring, screens and newel posts are available for creation of individualized kitchen décor.

Courtesy Mutschler Bros. Co. & Kitchen Guild of America

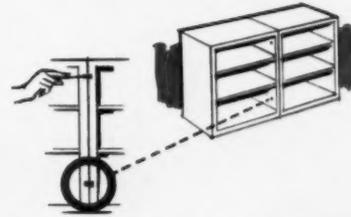
1 Attach cabinet hanger bars to studs with wood screws. Use chalk line 81 1/4" from floor as guide to line up bottom of hanger bar



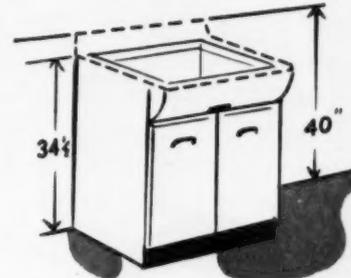
2 Hold cabinet against wall with top about 3" higher than the hanger bar. Let cabinet slide down to engage flange of hanger bar



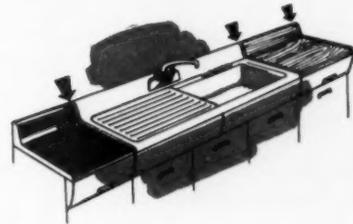
... how to install steel cabinets



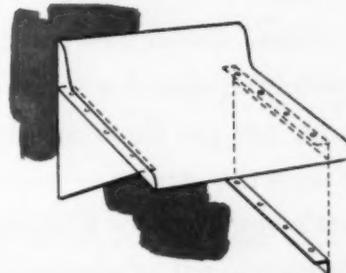
3 For tight fit and even distribution of load bolt cabinets together. Check for level. top of cabinets 84" from floor. Drill two holes in adjoining side panels as far front as possible



4 Install base cabinets. Fasten to wall. Remove drawers and bolt and bolt cabinets together with stove bolts together in same fashion and also onto sink base



5 Remove end cap from side of vinyl top which fits adjacent sink and attach sink-to-counter sealers to it and to left side of maple top. This makes water tight joint when caulked and fitted into place. End cap removed from right of vinyl to top fits onto right of maple top



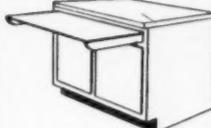
Crosley Corporation Data

6 Counter top over serving cart is fastened to the sink cabinet with an attach channel, and supported on the left by a support bracket

cabinet features buyers look for . . .



CONTINUOUS TOPS of one-piece may be had in a variety of shapes and coverings. No crevices to collect dirt or food.



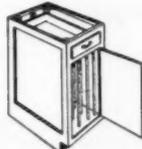
SLIDING TABLE extends from cabinet to provide sufficient eating facilities of two persons, or extra counter space.



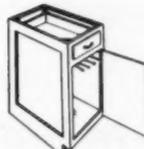
ROLLER BEARING SHELVES pull out for easy access to utensils. Operate at the touch of a finger, even when fully loaded.



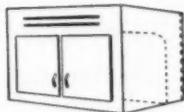
HIDEAWAY MIXER UNIT has an ingenious lift-up shelf that permits instant use of mixer, out-of-sight storage.



TRAY BASE permits filing of serving trays on side or end. Also cookie sheets and similar odd-size equipment.



TOWEL DRIER has self-contained fan that dries towels fresh and sweet. Similar non-fan space may be provided.



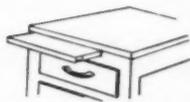
CRISPER UNIT for use with gas operated refrigerators. Utilizes exhaust heat to keep cereals, crackers, etc. crisp.



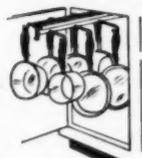
VEGETABLE BIN provides ventilated storage for fruits and vegetables that do not need refrigeration.



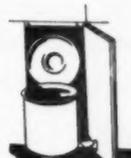
BREAD AND FLOUR BINS are metal except for front. Moisture proof. Fit any base unit that has deep drawers.



SLICING BOARD may be provided in any unit over 18" wide to give extra cutting surface in addition to maple counter insert.



SLIDING PAN RACK holds pots, pans and skillets in easily accessible manner. Especially convenient at cooking and serving area.



FOOD WASTE CONTAINER for kitchens without garbage disposal unit. Fits under sink; lid opens with door. Lift-out pail insert.

Courtesy Mutschler Bros. Co. & Kitchen Guild of America

KANSAS CITY BUILDER MAKES THE



They line up to buy Ruskin Heights homes in Kansas City. These houses—costing only about \$10,000—feature many “luxury” items like Crosley Kitchen equipment.

Mr. Stanley Praver of Praver & Sons, one of America's foremost builders and builder of Ruskin Heights, a development of 2,000 homes, knows the sales value of a complete kitchen in your homes. Praver & Sons' other building projects have already won them national fame.

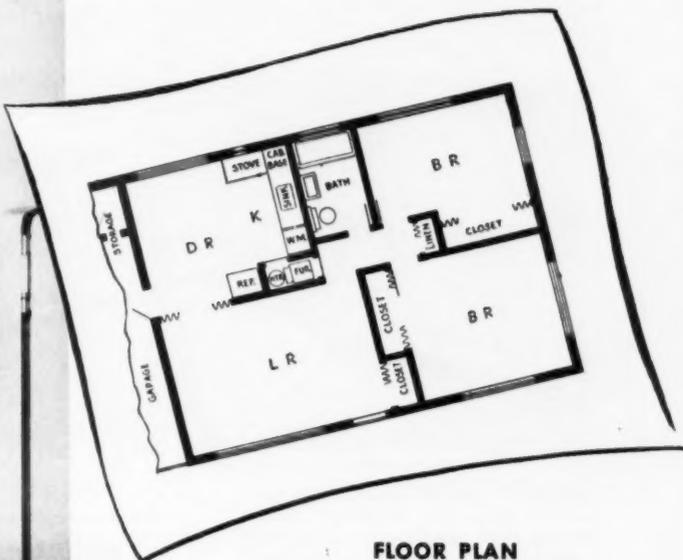
A Crosley-equipped Kitchen can be an effective sales aid for any builder, according to Stanley Praver. The kitchen is one of the first rooms prospects want to see in a new home. And a well-designed kitchen, completely equipped with brand-name appliances, can put them in a buying mood right from the start.

That's why a Crosley Kitchen makes such a difference in selling a home! Mr. and Mrs. Prospect know Crosley as a pioneer in styling and as a leader in kitchen design and engineering.

And prospects are really impressed when they learn that the Crosley Kitchen can be included right in their mortgages. This way, they can have a home already complete with Crosley appliances without the usual high short-term payments. That's a real sales help.

Take a tip from Stanley Praver! Prove to yourself how easily Crosley products can be installed in your homes and what an outstanding sales job a complete Crosley Kitchen can do for you. Make a Crosley Kitchen your salesroom.

"CROSLEY ROOM" HIS SALESROOM!



FLOOR PLAN

Here's the salesroom in the Ruskin Heights homes. This beautiful kitchen is designed for care-free living. The Crosley Sink and Wall Cabinets supply more than ample working space and convenient finger-tip storage.

Compare this floor plan and photograph of the spacious kitchen. See how Crosley can give such "big-kitchen" advantages to fit any amount of space you may have available.

"LUXURY" CROSLEY KITCHENS CAN HELP SELL YOUR HOUSES!

You equip your homes with star salesmen when you equip them with Crosley products. The famous Shelvador® Refrigerator, for instance, gives prospects more refrigerated storage space than other makes. The Crosley Electric Ranges offer such sales advantages as two-area heating in the range units and completely automatic ovens.

Crosley Sinks come in a number of sizes for any wall or floor space. And Crosley Base Cabinets with vinyl-on-steel tops supply you with plenty of work space in the most compact kitchens.

And remember, Crosley will help you plan your kitchen. Let Crosley's expert kitchen planners help you add sales-appeal to your new homes.

*For More Information
Clip and Mail this Coupon to:*

**Builder Sales, Dept. AB-43, Crosley
Division, AVCO Manufacturing Corporation
1329 Arlington Street, Cincinnati 25, Ohio**

Please send complete information on all Crosley products to:

Name _____

Company _____

Address _____

City _____ Zone _____ State _____

CROSLEY

DIVISION



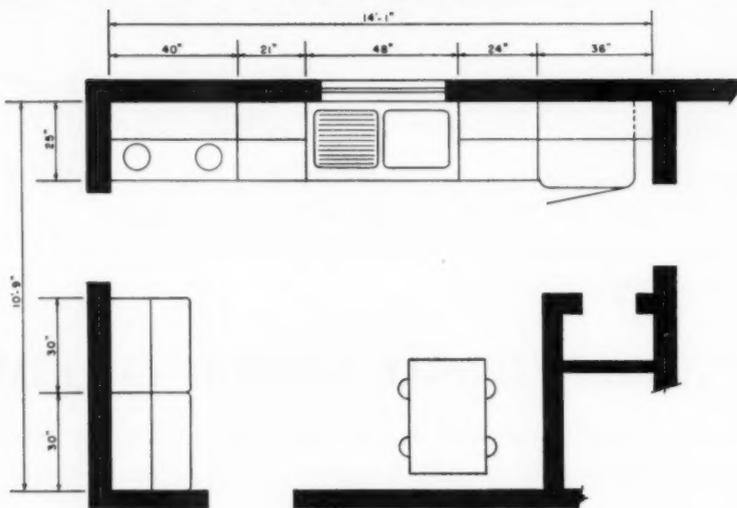
CINCINNATI 25, OHIO

SHELVADOR® REFRIGERATORS • SHELVADOR® FREEZERS • ELECTRIC RANGES • RANGE AND REFRIGERATOR PANTRIES • AUTOMATIC DISH-WASHERS • ELECTRIC WATER HEATERS • ELECTRIC FOOD WASTE DISPOSERS • SINKS • STEEL KITCHEN CABINETS • VINYL-ON-STEEL CONTINUOUS COUNTER TOPS • HANDY ACCESSORIES • TELEVISION • RADIOS • ROOM AIR CONDITIONERS.



Layout and rendering by Cronley

Cabinets in this all steel kitchen have welded construction, bonderized, baked enamel finish. Slight outward bulge of cabinet tops above doors makes knee room to stand and work, and recess at bottom makes toe room. Counter tops are vinyl plastic cemented to 18 gauge steel



an all-electric kitchen . . .



Courtesy Hotpoint, Inc.

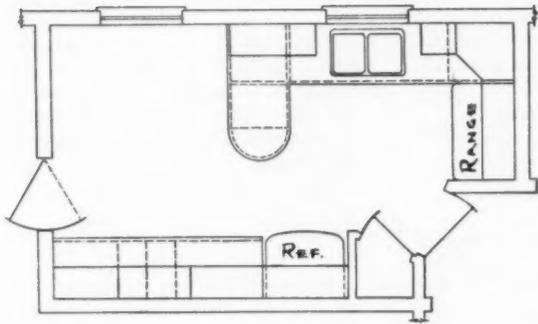
Specialties

Special features of modern kitchens include under-cabinet lighting of counters, ornamental valances that conceal lighting over sink or range, special wall shelving for condiments and small items, planning desk for the housewife, sewing machine installed in laundry area in regular cabinet, and decorative treatments of window sills.

Ranges and sinks may be arranged in island or peninsula fashion, combined with snack bar or breakfast nook or other features. Sliding door cabinets, additional

(Continued on page 448)

Keeping laundry set-up within the kitchen area to save steps and ease plumbing installation, this suggestion for No. 2 ranch type home incorporates a full range of electric appliances with modern cabinets in an efficient layout. Not shown in view is suggested breakfast nook in right-hand corner of room



Courtesy the Kitchen Maid Corporation

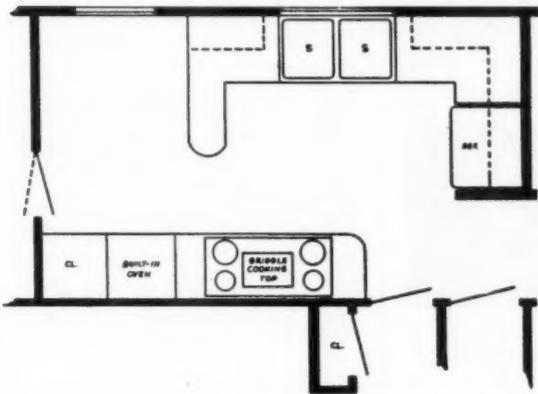


cabinets in natural wood . . .

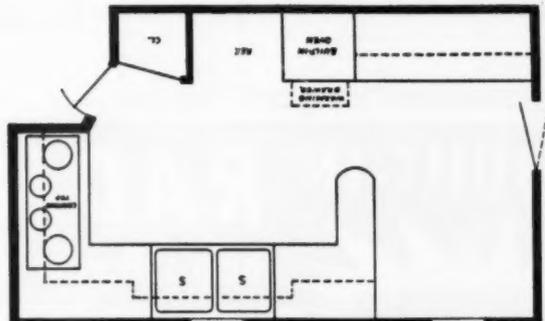
Natural wood finish enhances the charm of these cabinets, built to contain the new built-in ovens and cooking units of leading manufacturers. Featured in this layout is a base cabinet for storage of electric food mixers and accessories. Drawers are aluminum. Doors have silencers. Shelves are permanently mounted for secure load carrying



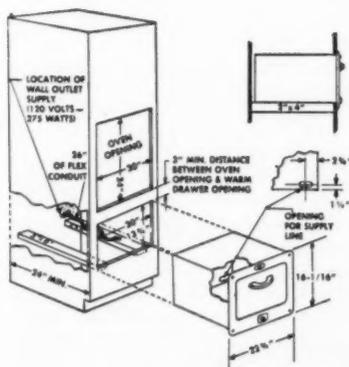
built-in oven installations . . .



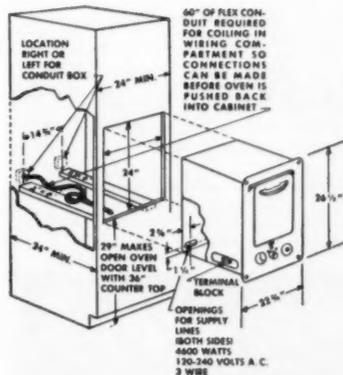
Courtesy Thermador Electrical Mfg. Co.



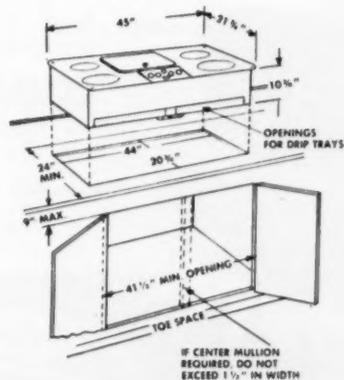
Two plans with different arrangements of built-in oven, warming drawer, and cooking top with griddle show something of the flexibility of layout possible. Compact arrangement of cooking units in griddle top greatly increases cooking capacity of unit. Top element in oven is used for infra-red broiling



Rough-in and installation details for built-in oven. Note two lengths of 2"x4" to support oven. These must be level, flush with opening



Warming drawer has similar framing, has thermostatic control to protect contents against overheating. May be used as storage drawer also



Installation details for cooking top with griddle. Secure rough-in box to counter top with screws through holes provided in edges of box

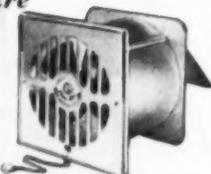
LOWEST PRICED FIRST-QUALITY EXHAUST FANS on the market!

Clear-Aire

Fully automatic Clear-Aire Kitchen Exhaust Fans help sell more new homes faster! In 8 and 10-inch standard and deluxe wall and ceiling models, for brick or frame construction, G. E. Motor, two-unit construction, mirror-finish chrome finish! Compare quality, compare price—you'll choose CLEAR-AIRE!

Send coupon for descriptive literature and prices!

Selected territories open for Manufacturer's Representatives! Write for details!



SIN-JIN PRODUCTS CO
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"Clear-Aire—you see them everywhere!"

Sin-Jin Products
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Gentlemen:

Please send literature and prices on Clear-Aire Kitchen Exhaust Fans.

Name _____
Address _____
City _____ State _____

(Continued from page 446)
backsplash protection, and a host of special purpose cabinet fixtures make up a wide range of possibilities which the builder may draw upon to satisfy his customer.

Built-ins and Fixtures

The choice between snack bar or breakfast nook will be dictated by space available and family preferences. The snack bar may be combined with overhead cabinets, giving the illusion of more space. The built-in breakfast nook is usually more expensive, requires more space, but provides more luxury.

Cabinets and Sinks

Modern kitchen cabinets of wood or metal, designed as integrated units that harmonize with sinks and major appliances, are available in a wide range of stock sizes and shapes. The "custom look" may be had at relatively low cost.

Custom-fit counter tops are frequently installed over stock cabinets, giving a large area of work space free of cracks and joints.

The sink is the unit around which most of the cabinet layout is planned. Most modern sinks are either built into cabinets or designed to be installed in cabinets at the site. Mixer faucets with spray attachments are virtually standard equipment.

Ranges

Improved finishes, insulating materials, and modern design in both gas and electric ranges have kept pace with other advances in kitchen equipment and appliances.

Sizes range from small four burner units with underneath oven to 8 burner models with two ovens and two broilers. Other units are of modular construction which permits ovens and broilers to be built into cabinet units at various points in the kitchen, with surface cooking units in still other locations.

Washers

The automatic washer is now a "normal" rather than an unusual installation in a home laundry. Such equipment will require a single laundry tray, while the non-automatic machines and double laundry trays to facilitate rinsing operations. Plumbing should be roughed in to provide water and drainage lines, following codes relative to connections to waste lines.

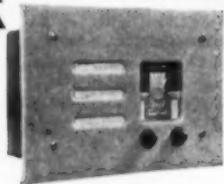
Dryers

A number of manufacturers now provide a wide range of choice in compact, safe, and economical gas and electric dryers. While some locations permit venting of the moisture into the room, normal procedure requires venting to the outside to prevent excess moisture injuring plaster or woodwork.

Ironers

The addition of an ironer to the washer and dryer rounds out the equipment of a modern home laundry. They may be of the rotary or flat press type, and come in a number of sizes to fit family needs and customer's preference. Some have cabinet type lids of their own, and others are built for cabinet installation with other kitchen and laundry cabinet units.

BUILT-IN RADIOS help sell your homes!



FLUSH-WALL appeals to prospective home buyers—it's novel and saves valuable space.

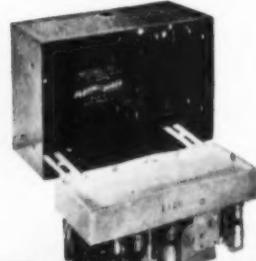
Easy for builders and electricians to install—fits in standard 4" partition. As easy to install as any electrical receptacle outlet.

Radio is 5-tube AC-DC Superhetrodyne. Panels to match color scheme of room.

LOW COST! Retail price only \$34.95 plus installation. Special trade prices on request. Panels extra: Masonite \$2.45. Plastic colors \$4.45.

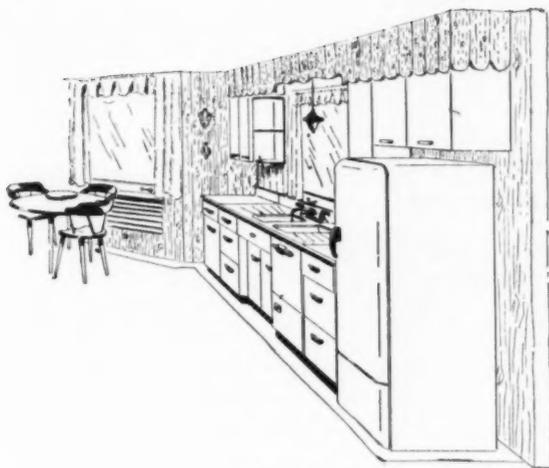
Write for descriptive folder and specifications.

Territory franchises available to qualified jobbers and dealers.



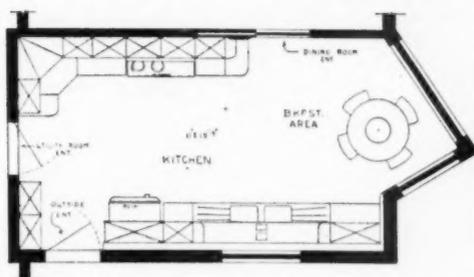
FLUSH-WALL RADIO COMPANY

Dept. AA3, 1012 Cleveland Street, Clearwater, Florida



Arrangement of food preparation and laundry areas in this plan provides for good lighting and ventilation, a minimum of steps, and relative freedom of work areas from traffic through the room. Breakfast area is designed to provide pleasant feeling of leisurely living

Layout and plan by Tracy Manufacturing Co.



luxury kitchen for gracious living . . .

Efficient arrangement of kitchen equipment in this plan makes for efficient operation of food handling and laundry tasks while retaining the spaciousness of luxury living. Unusually large room areas make greater distances to walk, but compact equipment arrangement by task grouping makes for economy of time and effort

Courtesy General Electric Company

Food preparation center in this kitchen plan provides ample work space on both sides of sink and adjacent to opening side of large refrigerator. Window over sink is preferred by most housewives



Cooking center has ample work and storage space for handling utensils and serving from stove to dishes. Freezer, visited less often than refrigerator, is out



of the way yet near convenient counter space. Plenty of light in this process-line laundry arrangement. Automatic washer, dryer,



and ironer are integrated with base cabinets and wall cabinets to provide necessary storage and work space for laundry operations



① **Mr. Hendy of Cincinnati, Ohio, talked to builders from many states.**

He questioned outstanding builders; asked them what was *really* behind their phenomenal sales of houses.

② **He came back feeling very certain that the installation of the General Electric Kitchen in his new houses would really help to sell them fast.**

He found that women *want* the General Electric Kitchen in their new homes. He discovered, too, that this trump selling-feature cost the home-buyer only about \$3.45 per month extra on monthly mortgage payments.

③ **His judgment was right**

He sold 64 houses equipped

Here is Mr. Hendy calling back on one of his new homeowners. Mr. Hendy is convinced—more than ever—that it pays to install General Electric equipment.



"Pleased as punch with my new G-E Dishwasher," says Mrs. T. J. Radley, 1153 Morado St., Cincinnati, Ohio. "The dishes are cleaner than I can wash by hand, and G-E Disposall® is out of this world. No more garbage for us!"



"There's so much room in my new G-E Refrigerator, and with four children, I certainly need it. I'm glad it's a General Electric Refrigerator, too, because it's a brand I know I can depend upon year after year."



"Look at my wall and you can see how clean cooking by electricity really is. This G-E Range is wonderful. Heats up fast, too. And to think that all these G-E appliances are costing us only about \$3.45 a month extra on our regular mortgage!"



View of builder Hendy's Price Hill development. These moderately priced homes are all equipped with General Electric Kitchens.

with G-E Kitchens in 60 days —before even one single foundation was completed!

Think about this a minute. Mr. William F. Hendy, builder of Arcose Company Houses in Price Hill, Cincinnati, Ohio, took a tip from the pages of other successful builders—and sold his houses in record time.

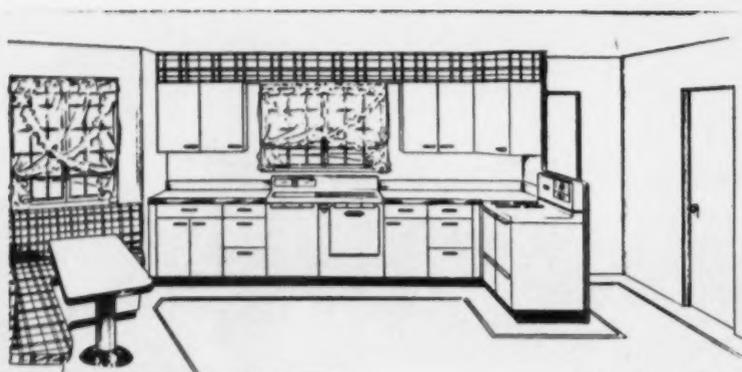
And, we say YOU can, too . . . when you install the G-E Kitchen-Laundry.

Two reasons why: First of all, women *prefer* General Electric appliances to any other brand. A 1951 survey shows that 55.7% of the people interviewed believe that G.E. makes the best appliances for the home.

Second: A G-E Kitchen-Laundry can be built right into houses in the \$10,000 or \$12,000 price range—and the monthly cost to the homeowner may be no more than that for a typical telephone bill, because under modern home-financing the cost of these dependable appliances can usually be included right in the regular mortgage.

Start selling your houses faster, just as many other builders are doing from coast to coast. See your local G-E distributor or write to the Home Bureau, General Electric Company, Louisville 2, Kentucky.

GENERAL  ELECTRIC



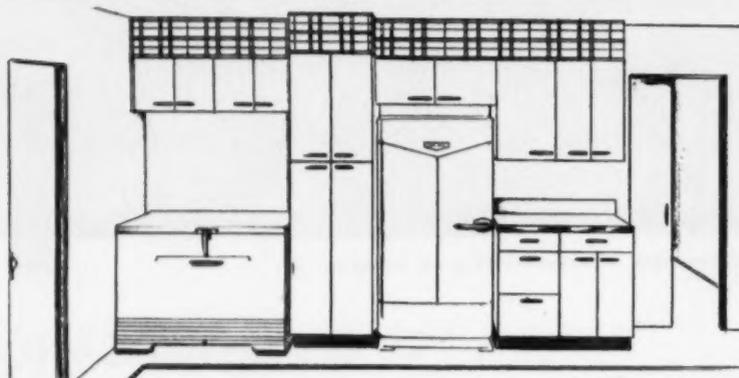
Courtesy Hotpoint, Inc.



PLAN 4

LUXURY
RANCH TYPE
HOUSE

Dishwasher sink beneath window; electric range moved out to establish traffic corridor between kitchen, laundry, and rest of house; and colorful built-in breakfast nook are highlights of this suggestion for the luxury ranch home kitchen. Partition to height of backsplash backs up range and corner cabinets



Courtesy Hotpoint, Inc.

Refrigerator in the luxury ranch home kitchen opens towards ample counter space above built-in cabinets for food and utensil storage. Valance above cabinets is designed to match upholstery of breakfast nook. Counter space is convenient to dining room for serving and easing removal of dishes after the meal

Refrigerators and Freezers

More efficient insulating materials and smaller power units have increased capacities of refrigerators without adding to over-all dimensions. Popular among modern units are those which combine freezer compartments or even larger freezer units built into the same piece of equipment. Both top opening and side opening freezers are available in sizes suited to kitchen installations.

Counters and Tops

Laminated plastic, linoleum, stainless steel, and tile are among the most popular materials for counter tops. Good fit and careful installation are necessary to secure tops that will not leak, pull away from cabinets or separate at the joints.

Fans and Ventilators

Ranges are ventilated on a through-the-wall basis when against outside walls, and through ducts concealed in soffits or between joists when located against interior wall. Many special types are available to operate through glass block or other special wall materials, by means of attic exhaust systems, and with hoods over the cooking area.

Dishwashers

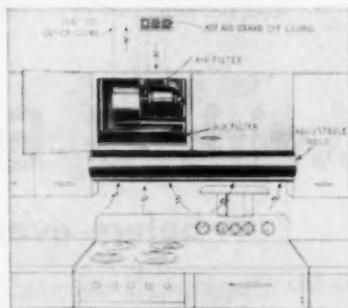
The automatic dishwasher is often one of the "extra" features that helps clinch a sale. They are either built in as part of a cabinet sink, or may be had ready for installation in a cabinet arrangement. Selection of top or front load models should be on the basis of space requirements.

kitchen range ventilation . . .



Vent-a-hood Company Data

Built-in exhaust blower in this kitchen range hood is baffled to draw air evenly from all sections of hooded area. It provides 18 air changes per minute between hood and range surface. Hood should be 6" longer than range for thorough coverage. Available in copper tone with brass trim or white enamel finish, the unit is easily installed with simple wooden wall frame installed on the wall so as to bring the lower front edge of the hood 69" from the floor. In new construction, this frame can be attached to studding and wall finished around it



Trade-Wind Motorfans Data

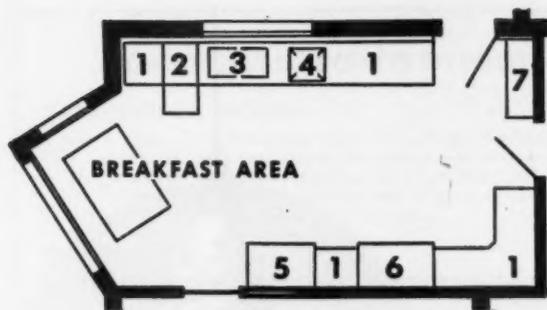
This type of kitchen ventilator has adjustable hood, air filter and power blower. Normal installation includes a duct which draws hot air in off the ceiling at the same time that hot air and cooking fumes are carried away from range surface. Venting is to outside through the roof or via ductwork in a wall to an outside wall

Higher water temperatures needed to scald dishes may require the use of a booster water heater located in the supply line ahead of the dishwasher so that other water for household use is not overheated.

Garbage Disposers

Waste disposal units—electrically operated grinders, shredders, or pulverizers, mounted in the sink

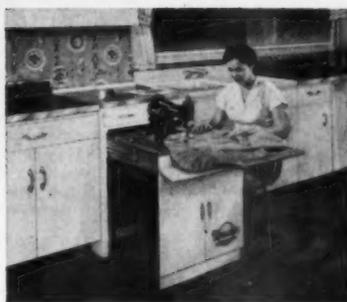
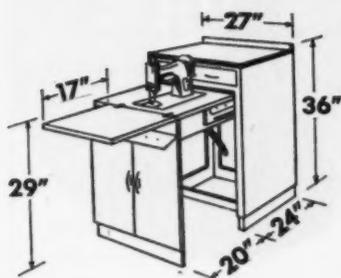
AMERICAN BUILDER



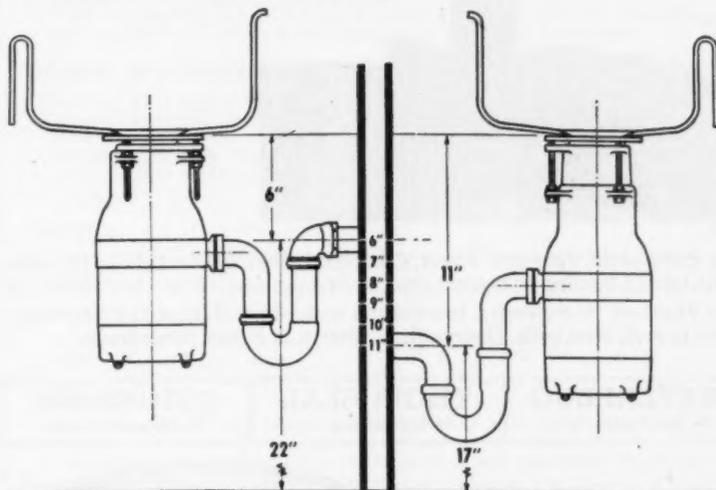
sewing in the laundry . . .

A sewing machine in the kitchen-laundry or utility room is logical and convenient. This unit comes in a cabinet which matches standard kitchen cabinets in attractiveness and utility. Shown in plan are: (1) Cabinets, (2) Sewing Machine, (3) Sink, (4) Dishwasher, (5) Refrigerator, (6) Range, (7) Utility Cabinets

Courtesy Domestic Sewing Machine Company



disposer fits any rough-in . . .



Courtesy In-sink-erator Manufacturing Company

Short roughing-in clearance is no barrier to this model food waste disposer. Telescoping neck fits around sink flange and is fastened with lock nuts so that adjustment within a range of 5" of vertical clearance are possible. Waste pipe connection through wall may be from 17" to 22" above the floor.

drain—are the modern method of handling food wastes. Elimination of odors and the outside garbage can add sales appeal that more than offsets initial cost of such units.

Plumbing and electrical installation must be made according to local codes and manufacturers' instructions. Individual incinerator units may be used in localities having plumbing restrictions. Gas or electric firing reduces waste to safe, odor-free ash removed at reasonable intervals.

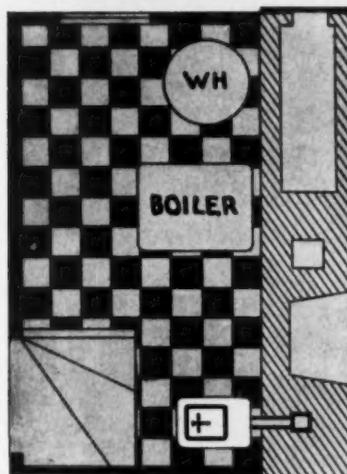
Unit Kitchens

Builders of minimum space units such as motels and kitchenette apartments have profited from the development of unit kitchens in which range, oven, refrigerator and sink are combined into one space-saving unit which may take as little as 48" of floor space.

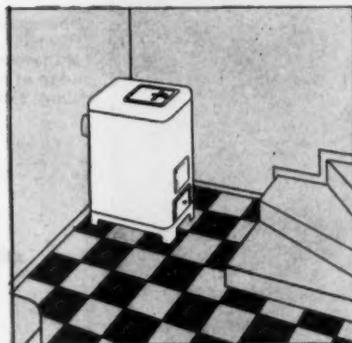
Laundry Equipment

Modern appliances make possible the satisfaction of most women's de-

gas or electric incineration . . .



Deciding factors in home incinerator location should be convenience of housewife and chimney accessibility. For automatic disposal of burnable trash, this unit may be either gas or electrically fired to reduce waste to clean, odorless, easily removed ashes. Basement or utility room location is preferred



Courtesy Calculator Division

sire to have a first floor laundry to save steps and carrying. Compact units make possible an efficient laundry in relatively small space.

where
the
elements

are
at
their
worst



The dome of the Terminal Tower, Cleveland, Ohio, 614 feet above the sidewalk, takes a beating from wind, rain, boiling sun and subzero temperatures. The exposure to elements, beyond the endurance of most building materials, is protected with Thoroseal, as shown in above photograph.



Photograph on left shows how Bob Reynolds, of H. Reynolds Company, of Cleveland, Ohio, stands on extreme edge of hanging scaffold, 614 feet above sidewalk.

WATERPLUG To Stop Leaks	THOROSEAL To Seal Surface	QUICKSEAL For Beautiful Finish
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Standard Dry Wall Products

BOX X, NEW EAGLE, PENNSYLVANIA

A CHECK LIST OF POINTS TO PROTECT PAINT

BASEMENTLESS HOUSES

Use a heavy asphalt building paper beneath the floorboards to block the rise of vapor from the ground. Cover the ground with a layer of crushed rock, cinders or gravel, and provide grading which will direct surface water away from the building. Use rat-proof flooring, and at least 4 ventilating openings, one near each corner of the building. Insulate pipes.

FLASHINGS

Never omit or skimp on flashings. They may be needed for roof valleys, edges of roofs, junction of roofs with chimneys and dormers, headers over windows and doors, water tables, and junctions of siding with shingles, stucco or masonry. The need should be judged in the light of winter conditions. For instance, ice dams at the edges of the roof may back up melting snow well past flashings applied simply as protection against summer rain.

FOUNDATIONS

Waterproof underground walls by putting a thick outside coating of asphalt all around. Paint the foundation wall above ground on the outside with a masonry paint based on a polystyrene emulsion vehicle. For already built houses with a basement wall moisture problem, application of a cement-water paint system may be the solution; or painting with a polystyrene emulsion paint applied directly to the masonry and not over old paint of any type.

GREEN LUMBER

Be sure you're not using it.

GROUND CONTACT

Wooden studs and siding must not be brought into contact with the ground.

HUMIDIFIERS

Don't use them for at least 2 years in a new house with plastered walls. The plastered walls will release tons of moisture during the first few months.

JOINTS IN FREE-STANDING WOODWORK

Columns, posts, and railings whenever possible should be given the protection of roofs. If possible, such members should be made of the heartwood of naturally durable wood. Sapwood at such joints will take up water rapidly and is susceptible to decay. Dip all end-grain ends of pieces used in these joints in water-repellent preservative after they have been cut and fitted, and before fastening in place.

NAILS

Use aluminum or heavily galvanized nails to prevent discoloration of paint from rusting.

ROOF

A substantial overhang is very effective in preventing streaking of paint and making the coating last longer.

SIDING

Horizontal joints should overlap generously. Apply paint generously at these points.

Vertical joints in horizontal siding should be made only over studs, and should be well staggered in the successive courses.

Sealing the ends of the siding boards with paint will make a better job.

Corners must be carefully fitted and covered with corner pieces or corner boards. Fit window and door cases with great care to keep out as much water as possible at the junctions with siding. Poorly joined window heads and siding butts are a menace to paint.

Trim is best laid overlapping and overhanging the siding below it.

Vertical siding must have battens to cover the long vertical joints.

Remember that flush siding is very susceptible to penetration to rain.

Building paper behind the siding should be water resistant but not too vapor resistant.

VENTILATION

Stagnant air spaces behind exterior walls will often cause condensation of water vapor, and paint failures. Be sure to provide adequate ventilation for attics, closed-off spaces under roofs, hollow columns, crawl spaces under porches and basementless buildings. Ventilation for crawl spaces should contain openings not larger than $\frac{1}{4}$ inch; for attics and lofts, not more than $\frac{1}{8}$ inch.

VAPOR BARRIER

Vapor barriers should be installed at the time of construction in all new houses built north of the 35 degree January isotherm line.

PAINT and ADHESIVES

Types of Paint

White Lead Paint

Mixed Pigment Paints

Priming Paints

Stains

Roof and Trim Paints

Masonry Paints

Metal Protective Paints

Interior Paints

Rubber Base Paints

Varnishes

Waterproofing

Estimating Painting

Adhesives

Types

Applications

FOR MORE INFORMATION
ON PRODUCTS ADVERTISED
AND DESCRIBED IN THIS
CHAPTER PLEASE USE ONE OF
THE PREPARED INQUIRY
POSTCARDS IN THIS ISSUE.

THE real estate experts say that a good paint job increases the value of a house by 12 per cent. They also say that the three principal influences which sell a house are (1) location, (2) style, and (3) beauty—or the care and good taste with which the house has been painted, inside and out. The sales power of modern colors used with zip and understanding to create "appeal," is a cornerstone of American merchandising.

So beauty definitely pays, and many builders of houses for sale take this lesson to heart, treating the painting phase of their operation with the care it rightly demands. This means painting with top grade materials, not only in carefully worked out color schemes but also with proper selection and handling of the paint on the specialized surfaces involved.

Three Vital Points

Final responsibility rests with the builder, whatever may happen along the way. The vital points in this responsibility are: (1) the paint selected, (2) proper application, and (3) careful attention to those constructional details which affect the paint job. Painting specifications are a "must." Too many contracts are verbal between builder and painter, allowing the painter too wide a latitude in the selection of material.

Kinds of Paint Coatings and Their Nature . . .

MANY types and grades of house paint coatings flood the market. They can be classified broadly in three groups of high-grade white or tinted paints whose reliability has been well established. All three groups use linseed or other drying oil for the vehicle, no resin of any kind, and variable proportions of volatile thinner and drier. They differ in the nature of the pigments used, and the Forest Products Laboratory classifies them on this basis. In group L is included pure white-lead in ready-to-use form; group TLZ includes ready-mixed paints made with titanium dioxide, white lead, and zinc oxide; group TZ includes lead-free paints made with titanium dioxide and zinc oxide for use in places where fumes of hydrogen sulfide are present, causing white lead to turn black.

Priming Coats

For exterior use, white lead is good for priming as well as finish

coatings on wood of any kind. And for the following woods, which retain paint longest and withstand weathering well, a good house paint thinned properly can be used successfully as an undercoat: Western redcedar, other cedars except Eastern redcedar, Southern Cypress, and redwood. However, a modern primer is desirable with woods of all kinds, and is especially necessary with the following: Northern and Western white pine, Sugar pine, commercial white fir, Eastern and Western hemlock, Ponderosa pine, Eastern and Western spruce, Dou-

glas-fir, Western larch, and Southern yellow pine.

Priming of inside woodwork involves the use of special priming paints made for use on highly absorptive surfaces such as plaster, cement, and wallboard. The pigments are carried in bodied oils or varnishes and seal surfaces well without penetrating into them excessively.

Stains

Stains for exterior wood are basically paints very much diluted with linseed oil, a volatile thinner, and

WHAT TO USE — WHERE AND WHY

Exterior Structural Material	Recommended Paint Material	Special Properties and Functions
Wood		
Siding	Ready-mixed or paste titanium-zinc or titanium-lead-zinc oil-type house paint. On new wood or bare wood a special exterior wood primer may be used. (In many a non-urban situation, or one characterized by unusually troublesome painting conditions, pure white-lead in oil used as its own primer may give the most fool-proof, all-round performance.)	Seals against moisture, self-cleaning, minimizes dirt collection through controlled chalking, weather resistant, good durability lasting 4 to 6 years. Presents good surface for repainting.
Trim	For ordinary appearance use house paint as above. For superior appearance use special alkyd resin type "trim colors" (undercoat and finish coats).	Higher specular gloss, longer retention of gloss and color, greater fade-resistance, smoother texture.
Shingles	Stain with creosote oil, or other type special shingle stains. On previously painted shingles, paint with house paint as above.	Protects wood against rot, dries to a dull finish.
Natural	Apply oil stain as desired. Use low solids varnish-type sealer-filler. Apply two or three coats spar varnish for gloss finish. For dull finish apply oil-wax type finishes (clear or stained), or rub gloss with steel wool or sandpaper.	Protects against moisture and the ravages of weather, but does not preserve the natural color of the wood nor have the durability of painted coatings.
Porches and Decks	One or two coats of porch-and-deck enamel. On new wood apply a first coat of exterior wood primer.	Wear and abrasion resistant, high gloss, weather resistant.
Masonry		
Brick	Where NO alkali is present in masonry.	
Stucco	A. Oil-type masonry primer followed by exterior masonry (oil) paint, or, two coats of exterior masonry paint. Where higher gloss is desired the last coat may be house paint.	Good durability, good weather resistance, minimum dirt collection.
Stone	B. Masonry paint based on alkyd resin emulsion vehicle (water thinned).	Easy to apply, moderately good durability and low sheen.
Concrete	Where free alkali may be present in masonry.	
Cement-asbestos shingles	A. First coat use chlorinated rubber-based paint, followed by second coat of chlorinated rubber paint, or long oil alkyd resin type masonry paint, or house paint.	Chemical-resistant, alkali-resistant, moderately good wear, water-resistant, good durability, low sheen for oil-gloss.
	B. Masonry paints based on polystyrene or rubber emulsion vehicles.	Alkali-resistant, seals against moisture, durable, flat finish.
	C. Cement-water type paints, primer and finish coats.	Easy to apply, moisture resistant.

sometimes creosote. They are, of course, cheaper than paints and do not give as good protection against weathering. Good stains contain only pure, finely divided, opaque pigments, free from transparent pigments. Pure iron oxide, chrome, and carbon pigments are considered very satisfactory; white pigments less so. The liquid part of the stain should be at least one-third linseed oil by volume, with two-thirds often recommended. Stains are most suitable for rough surfaces such as shingles or siding placed with the sawed side out.

Roof, Trim, Porches and Decks

Roof paints are largely modifications of house paints and may contain some resinous material in their vehicles. They may also be of the alkyd (a synthetic) resin type.

Trim colors of the highest quality are enamel-like pigmentations of high oil content alkyd resins. Trim colors are designed especially for use on house trim shutters, trellis and other trim structures. They have durability as good as, or better than house paints. Also, they have the added features of high gloss, good gloss and superior color retention.

Exterior wood steps, floors of open porches, and other outside surfaces that will be subjected to heavy traffic require paints that harden much more rapidly than house paints do. Paint for these high-traffic surfaces are made with varnish rather than oil vehicles, and this type of formulation wears down by the scraping of the traffic rather than by the slower action of the weather.

Masonry Paints

There are many protective coatings available for cast concrete, brick, stucco, asbestos-cement siding, unglazed tile, and lightweight aggregate block. These paints can be classed in four groups: highly pigmented oil paint, cement-water paint, synthetic resin-emulsion paint, and paint containing rubber in the vehicle. Under proper but varying conditions they all do a good job of protecting masonry from the inroads of weathering and provide relative degrees of water-proofing.

Metal Protective Paints

These are metal primers designed to form a good adhesive bond between the metal and the top coat. They are also formulated to retard, inhibit, and prevent rust corrosion. In composition and quality, they vary—from the general utility paint, pigmented with iron oxide and extender pigments dispersed in aspar varnish vehicle, to the highly durable zinc yellow primers in alkyd resin vehicles. Zinc yellow primers do an outstanding job. However, where there is not a thorough surface preparation including the removal of all rust, it is better to use a red lead-linseed oil type of primer.

Paints for Interior Work

Oil-type flat wall paints are made with an oil-varnish vehicle and prime pigments that have high hiding power. In addition, they contain extender pigments to build up the pigment volume so that a flat sheen is provided by the dry film. On these classes of paint—a word of caution. Flat wall paint business runs into large volume and is competitive. Most manufacturers market a "first line" quality flat wall paint under their own name. To meet acutely competitive conditions some manufacturers also market a "second line" quality product at a lower price. These products contain less oil in the vehicle and more low-cost resinous materials, such as limed rosin. Made with less hiding

WHAT TO USE — WHERE AND WHY

Exterior Structural Material	Recommended Paint Material	Special Properties and Functions
Swimming Pools	Exterior type chlorinated rubber based paints or paints based on vinyl or other synthetic resins made especially for swimming pools.	Mildew resistant, stands immersion in water, chemical resistant.
Iron and Steel	First coat on cleaned (and preferably phosphate-treated) metal.	
	A. Zinc yellow primer in alkyd resin vehicle.	Retards and prevents rusting and corrosion. Maximum durability.
	B. Oil-based zinc yellow primer.	
	C. On sand-blasted, flame cleaned, or wire-brushed rusted metal, first coat with red lead oil paint primer.	Retards and prevents corrosion.
	Top (finish coats) depending on end use may be:	
	A. Oil-based house paint or maintenance paints.	Good durability, low sheen, short gloss retention.
	B. Trim colors, oil/alkyd resin vehicles.	Better gloss and color retention, good durability.
	C. Oleoresinous enamels.	Medium to good durability, relatively shorter gloss retention.
	D. Alkyd resin exterior enamels.	Maximum durability, color retention, fade resistance, water resistance.
Aluminum (siding, rain spouts, etc.)	Pretreat metal surface with phosphate metal treatment, and apply:	
	A. Zinc yellow primer followed by house paint, trim color, or alkyd resin enamel, depending upon end-use.	This system is designed to give maximum durability.
Galvanized Iron, Zinc, or Cadmium	A. One or two coats zinc dust paint, alkyd resin or oil type.	All durable finishes, but only zinc dust paints will give good adhesion to metals in this group, without a phosphate pretreatment.
	B. After phosphate pretreatments, apply zinc yellow or red lead primer, followed by house paint, oil-alkyd trim color, or alkyd resin enamel, depending upon end-use.	
Brass Copper	For clean finish, coat with spar varnish or exterior lacquer.	Prevents tarnish.
Canvas	House paint where there is light foot traffic. Porch-and-deck enamel for harder wear.	More wear resistant.

WHAT TO USE - WHERE AND WHY

This table recommends suitable paint materials for most types of interior structural surfaces. The descriptions of special properties and functions will help to make the right choice in the light of requirements of the individual job.

Interior Material	Recommended Paint Material	Special Properties and Functions
Walls	A. Oil-type masonry paint.	Long durability.
Stone Concrete Cinder Brick (In cellar)	B. Cement-water paint, primer followed by top coat. C. Chlorinated rubber masonry paint.	Moisture-resistant. Alkali-resistant. Water-resistant.
Plaster	D. Rubber or polystyrene emulsion paint. A. If virtually alkali free after treatment with neutralizer, apply first coat of plaster-primer, followed by oil-type flat, semi-gloss, or gloss finish; or a flat wall enamel which has an alkyd resin as a vehicle instead of linseed oil. B. Rubber or polystyrene emulsion paint.	Alkali-resistant. Seals against moisture. Long-lasting, flats are semi-washable. Gloss and semi-gloss good vapor barriers, and washable. Alkyd flats very washable, low sheen. Excellent washability. Flashing and ghost-free. Alkali and moisture resistant. Good humidity vapor barriers.
Wallboard or Plasterboard	C. Oleoresinous emulsion paints and casein paints. D. Calcimines.	Easy to apply, only semi-washable. Not washable.
Fabric or papered walls	Special non-penetrating oil-type wallboard primer, followed by flat, semi-gloss or gloss finish. May apply rubber emulsion paint directly. Oleoresinous emulsion or rubber latex based paints.	Uniform sheen, durable. Non-penetrating, uniform sheen.
Woodwork	A. On bare wood apply one coat of enamel undercoat, followed by semi-gloss or gloss enamel, one or two coats. If white, use alkyd resin type non-yellowing enamel. On previously painted wood the undercoat may be omitted. Surface must be clean. B. For clean finishing system, stain with oil stain, if desired, or bleach for blond finish. Apply varnish type low solids sealer-filler. Follow with one or two coats of interior varnish. (Do not use spar varnish.)	Good washability, gloss and color retention. Long lasting. Good appearance, gloss retention, washable, oil and grease resistant.
Metal Trim etc.	Metal primer, followed by any desired oil type or emulsion finish.	Corrosion-resistant, durable.
Floors, wood	A. Stain with oil stain if desired, and apply first coat of varnish type sealer-filler, or a coat of two pound shellac cut. Follow with two coats of floor varnish. Wax, if desired. B. For dull finish, use penetrating oil-wax clear, or stain.	Hard, tough, wear-resistant finishing system. High gloss.
Linoleum	Use linoleum lacquer. Do not use varnish because of discoloration.	
Asphalt Tile	Wax only. Solvents in paint or varnish would be harmful to asphalt tile.	
Concrete	If alkali is present, paint with chlorinated rubber floor paint. Otherwise oil type floor paint may be used, two or more coats for longer wear.	Abrasion and wear resistant.
Glass	Use special clear synthetic resin finishes designed specifically to give frosted effect.	

power per gallon and cheaper extender pigments, they are likely to become more quickly embrittled with age, lose their adhesion faster and peel sooner. In flat wall paints particularly, as in all paints generally, you get just what you pay for. The most economical finish in the long run is the one with the highest initial cost. To use others is false economy.

Oil-type flat wall paints, as well as oil-type house paints, are marketed in both ready-mixed and paste form, and some new types for interior use are practically odorless. The paste product is usually sold to painters who then add oil and thinners to the paste. They end up with a ready-to-apply product which is comparable to the ready-mixed paint in composition. By this procedure certain economies to the painter are supposedly achieved.

Semi-gloss and gloss finish paints are also used for wood trim in general and for walls and ceilings where good washability is important and moderately or highly glossy surfaces are customary. These too, are enamel types, made with a varnish vehicle, normally applied in two coats after the wood has been primed. Highly glossy finishes accentuate any defects or irregularities in the wood surface unless the wood has been carefully smoothed and finished.

Rubber-Base Paints

Marketed in ever-increasing volume for interior work are the satin-sheen type of rubber-base wall paints which dry quickly to a film that has many characteristics of rubber itself. Most of the particles in the paint are too large to strike into the surface, but coalesce into a solid film, even over porous surfaces. Pioneered on the market in 1949 these latex paints were developed with the needs of the amateur painter and decorator in mind and are very easy to use. They are odorless and contain neither drying oils, turpentine nor similar paint thinner. The thinner in the can is water.

Varnishes

Varnish is not just varnish—to be put on everywhere or anywhere. The so-called all-purpose varnishes are at best compromises. Their performance on any given surface can always be excelled by the use of a varnish designed especially for that job.

A *spar varnish* is one of high oil and low resin content. It is designed to be flexible, water resistant, and weather resistant. Its particular function is to give maximum protection to surfaces subject to ex-

terior exposure on which a clear coating is wanted. A spar varnish is the wrong type of finish to use indoors. On interior woodwork it will be too soft and on warm humid days may get tacky. On floors, it is not tough enough to give satisfactory wear. On furniture, it would soften under body heat.

An interior varnish has less oil and more resin content than a spar. It is designed for woodwork, but is not hard and tough enough for floors or furniture. If used outside, it would be less durable than spar.

A floor varnish is still higher in resin content than interior varnishes. It contains enough oil to give it sufficient flexibility so that it can stand the bumping of hard hitting heels and furniture moving. Its higher resin content gives it the extra toughness needed to withstand the wear and abrasion from heavy foot traffic.

A rubbing varnish, a bar varnish, and furniture varnishes are of still higher resin content. They have a high gloss which may be rubbed with pumice and oil to any desired lower lustre. If they are to be used on table tops or bars, they are made with the type of resins which are alcohol resistant.

Flat varnishes are available in any of the above types. The dif-

ference is that they contain stearates or silicates, or other ingredients which cause them to dry to a lower than normal gloss.

Shellac varnishes are solutions of shellac in alcohol and are classified according to composition and color. The solvent generally used in their manufacture is denatured alcohol. They produce a pleasing finish, with a dull lustre, and can be applied easily and dry rapidly. However, they turn white from contact with water and are easily injured.

Waterproofing

The common problem of damp basements has naturally brought into the market a great variety of paint products and others which claim to have "waterproofing" qualities when applied to masonry walls. In approaching this whole problem of waterproof coatings it must be clearly understood that no such coating is of itself a cure-all. Improper drainage of the site, poor workmanship, and defective construction in the building itself can nullify any type of waterproofing.

The so-called waterproof coatings include the four types of masonry paints, described above; colorless surface waterproofings, some of which have a silicone base, some



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Instant WATER-STOP

Hydraulic cement compound stops existing running water or pressure leaks in masonry walls immediately. Superb for plugging weep holes, breaks and cracks in basements, pools, cisterns and tanks. Fast-setting, dependable.



STA-DRI Silicone CLEAR-COAT

Controls the ugly white stains of efflorescence, but does not change color or texture of masonry surfaces. Clean, transparent, long-lasting. ONE economical application is enough to make rain bounce off masonry instead of being absorbed. Easy to apply. Not affected by heat or cold. Comes in popular 1, 5, 30 and 55 gallon containers.



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STA-DRI COMPANY
Brentwood, Maryland



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FACTS

STAY TIGHT
with
KAY-TITE

For MASONRY ONLY

KAY-TITE

PROTECTS MASONRY
AGAINST
WATER SEEPAGE

FOR
BRICK
STUCCO
CINDER BLOCK
ROUGH MASONRY
UNGLAZED TILE

WHITE
9
COLORS

KAY-TITE COMPANY

WEST ORANGE NEW JERSEY
ELEVEN FAR WESTERN STATES CONTACT KAY-TITE COMPANY
1717 WESTLAKE AVENUE, NORTH, SEATTLE 9, WASHINGTON
More than 20 years of satisfactory performance

containing chlorinated rubber in solution with benzol or naphtha, and still others being a water emulsion of waxes; cementitious coatings and proprietary materials (portland cement and sand, iron dust and sal ammonia, etc.); hot bituminous coatings (asphalt, coal tar, asphalt roof coating, asphalt emulsion, bituminous plastic cement) used on outside walls below grade and also often used on the inside faces of masonry walls.

... installing tile with adhesives

Note: Either of the two methods described below—buttering or floating—may be used at contractor's discretion for wall tile. Floor tile must be floated.

(1) Buttering Method—Wall Tile

Place on back of each tile one or more daubs of adhesive of such quantity that the adhesive, when compressed, will cover 70% to 80% of the back of each tile, approximately $\frac{1}{16}$ " thick.

(2) Floating Method—Wall Tile

- Spread adhesive, using a saw tooth trowel having notches approximately $\frac{1}{4}$ " by $\frac{1}{4}$ " and $\frac{5}{8}$ " apart, covering surface evenly with a thin layer of adhesive and leaving no bare spots. Coverage shall not be more than 50 square feet per gallon of adhesive.
- Press each tile firmly into wet adhesive within one hour after adhesive is spread, using slight twisting motion. Do not slide into place as adhesive will build up on tile edge and squeeze through joint, making satisfactory grouting difficult. Maintain horizontal and vertical joints plumb, true and even and of specified width.

(3) Floating Method—Floor Tile

- In areas where fitting is required, fit tile sheets before applying adhesive.
- Spread Floating Type MIRACLE ADHESIVE on surface to be tiled, using a $\frac{1}{8}$ " saw toothed trowel held at a 45 degree angle, covering surface evenly with a thin layer of adhesive and leaving no bare spots. Do not cover in one application a larger area than that to which tile can be applied in $\frac{1}{2}$ hour.
- Press tile sheets firmly into wet adhesive with a slight sliding motion, and align carefully with adjacent sheets. Do not slide sheets for any great distance, as adhesive will build up on edges of tile, making satisfactory grouting difficult.
- Not later than one hour after setting tile (and earlier, if surface being tiled is absorptive), remove paper backing by wetting and align individual tiles if required.
- When through delays or other causes, the adhesive films over or dries before tile can be applied, scrape off dried adhesive and butter the back of the tile lightly with fresh adhesive. Do not leave any area coated with adhesive, which cannot be tiled the day of application. Apply fresh adhesive as specified when work is resumed.
- Clean off any excess adhesive from face of tile with an approved solvent when adhesive is wet, or cut it off with a sharp knife when dry.
- Apply approved grout and cure in accordance with manufacturer's instructions.

Figures from the Pratt & Lambert "Specifications Manual" 7th Edition.

AMERICAN BUILDER

HOW TO APPLY AN OIL PAINT TO WALLS AND CEILING

Use a 3½- or 4-inch brush. Finish ceiling first. Complete a 3-foot strip across the ceiling, doing the final brushing in the same direction on each section. Finish another 3-foot strip, and so on, until ceiling is completed. On side-walls, start at ceiling and work down in about 3-foot square sections, cross-brushing horizontally and finishing with vertical brush strokes toward the ceiling. Completely finish a 3-foot strip from ceiling to baseboards.



Brush on the material



Then cross-brush with strokes in the opposite direction

HOW TO REMOVE WALLPAPER

Soak the paper thoroughly with warm water, using a large sponge and plenty of water. Use a putty knife to lift off wallpaper. Remove all traces of paste on wall by washing with a solution of 1 to 2 tablespoonsful of paint cleaner in a gallon of warm water.



ADHESIVES

"Construction by adhesion" is a phrase appearing more and more frequently in trade literature as special adhesives are developed to handle a wide range of fastening functions in modern building practice.

Generally speaking, adhesives may be of two types: buttering, or floating. Adhesives designed for the buttering method are frequently of a medium or heavy dough consistency. Those applied by the floating method are usually thinner, or a medium to light dough or light butter viscosity.

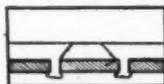
Applications of adhesive are almost without number. Surfaces ranging from brick, concrete, glass, marble, and metal to plaster, wood, plywood, wallboard, stone, terrazzo and slate may have bonded to them nearly every type of building material.

Building papers are bonded to sheathing and foundations. Ceramic and metal tile are bonded to wall surfaces. Plank and ceiling tile are bonded to all types of wall or ceiling surfaces. Rubber and asphalt tile, linoleum, and plastic materials are bonded to floors, walls, counter tops, and other surfaces.

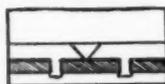
The scope of adhesives is increased by the use of numerous types of metal fasteners, usually consisting of nails or studs anchored to a flat base plate. In use, the base plate is bonded to the tile or other material being applied after the stud or nail has been driven into the supporting material.

Most manufacturers of ceramic tile, rubber tile, asphalt tile, and other surfacing materials either produce suitable mastics or adhesives or recommend specific types of adhesive which are found suitable for specific applications of their products. The entire field of adhesives is so complex, and the results obtained from one adhesive in a given situation will vary so greatly from those obtained from using another, that extreme care must be taken to follow manufacturers' recommendations together with instructions furnished with the adhesive material itself.

HOW TO PATCH PLASTER



Correct way to cut and fill



Wrong way to cut and fill

To fill large cracks, undercut as shown in drawing, and fill with a suitable compound. Sand smooth and prime with a sealer or with thin shellac.

HOW TO APPLY SPATTER-DASH FLOOR FINISH



Spattering is done after the floor has been painted a solid color and allowed to dry. Have the brush well filled with the contrasting color selected, and strike the brush sharply against a stick or piece of iron pipe held in the other hand. Small spatters are made with less paint in the brush and by striking the brush against the stick held about one foot from the floor. Make large spatters with a brush full of paint and by holding the stick about three feet from the floor.

HOW TO LOAD A BRUSH



Dip it in about ⅓ the bristle-length. Tap gently on sides of can to "settle" the paint into the brush. Never scrape on rim of can. Always start with a clean brush.

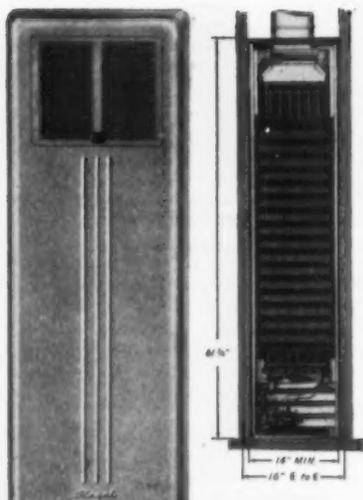
DO'S AND DON'T'S WHEN FINISHING WOODWORK AND FLOORS

- DO—allow plenty of time for coats to dry.
- DO—paint when weather will permit opening windows to allow ample ventilation.
- DO—remove all hardware before you start to paint. You'll get a better job and save time.
- DO—be careful when painting high places. Use a sturdy ladder and be sure the paint can is set on a steady surface.
- DON'T—paint over grease, oil, or wax. Remove with turpentine.
- DON'T—paint or varnish over a glossy surface. Rub it down with sandpaper.
- DON'T—pile on heavy coats of paint or varnish. Two

thin coats will always be better than one thick coat.

- DON'T—fail to putty up all cracks, crevices and nail holes after the first coat is dry.
- DON'T—fail to stir the paint thoroughly. Half-hearted stirring results in poor hiding, lack of uniformity in the finish coat, differences in degree of gloss, etc.
- DON'T—leave paint or varnish uncovered when through for the day. Cover tightly to prevent skin from forming on the top. If skin has formed, don't mix it in. Carefully remove the skin before stirring.

DuPont



New!



GAS WALL HEATER

- 25,000 BTU Size, single unit.
- 50,000 BTU Size, dual unit (heat outlets for two rooms are on the opposite sides of the wall).
- Entire unit above floor level for easy cleaning below.
- Adaptable for use with Robertshaw or General controls.
- Royaltex finish is designed to blend with any color.
- Has famous lifetime Royal cast iron burner with drilled raised ports.
- AGA approved for Nat., Mfg., or LP Gas.

Complete line of Vented, Unvented and Clay Back Wall Heaters on Permanent Display 1119-A Chicago Merchandise Mart

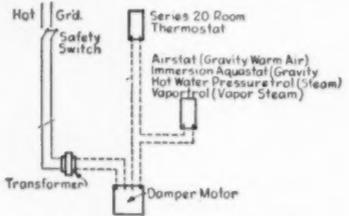
CHATTANOOGA IMPLEMENT AND MANUFACTURING CO. Chattanooga 6, Tennessee

QUALITY SINCE 1897
462

control systems

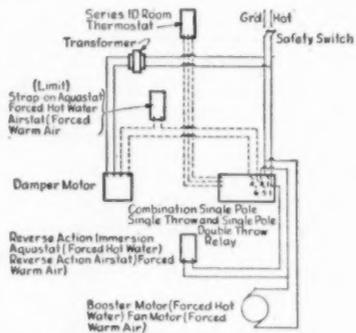
It is fully as important to have a good control system, for without it the heating system will not function at maximum efficiency. The following control set-ups are basic and will be used depending upon the heating system selected and the degree of automatic control desired:

Hand-fired coal, gravity warm air. A room thermostat governs operation of damper motor, which is connected to both draft and check doors on



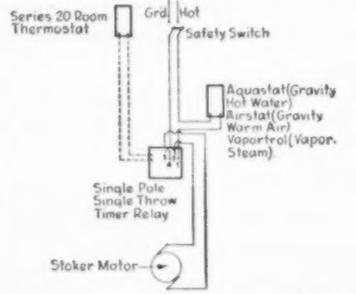
HAND FIRED COAL GRAVITY CIRCULATION

furnace or boiler by a chain arrangement. Limit control closes draft door and opens check door if the furnace overheats.



HAND FIRED COAL FORCED CIRCULATION

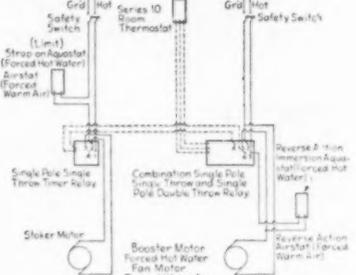
Hand-fired coal, forced circulation. This system has a thermostat, damper motor, transformer, limit control, and in addition, a relay to start and stop blower motor or booster pump motor. There is also a reverse-acting control in the voltage power circuit for starting the booster pump or fan motor in case the room thermostat is not calling for heat. This takes care of any



STOKER FIRED COAL GRAVITY CIRCULATION

override in temperature within the heating unit itself so that no injury will result from overheating.

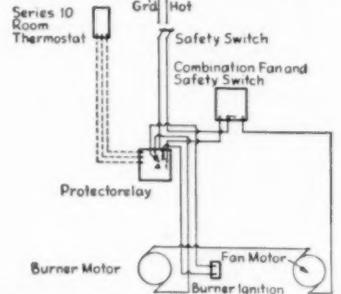
Stoker-fired coal, gravity circulation. Almost identical to system No. 1 above, these controls differ in the use of a timer relay rather than a damper motor and transformer. The relay provides for regular minimum feeding of coal to maintain the fire in the heating unit during the long intervals when room thermostat does not call for heat.



STOKER FIRED COAL FORCED CIRCULATION

Stoker-fired coal with forced circulation. These controls are the same as system No. 2, except that a timer relay is used in place of damper motor and transformer. In some hook-ups a stack control is used instead of relay for the hold-fire. This, however, has a tendency to corrode and deteriorate. Timer relay is preferred.

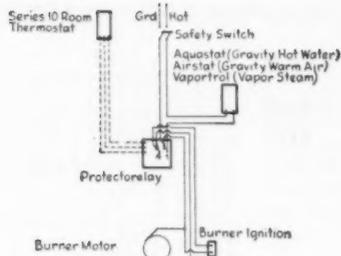
Oil-fired forced warm air. This is similar to oil-fired gravity circulation, with the exception of a limit control. Instead, a combination fan and safety switch is installed. This starts the fan motor when the bonnet of the furnace has sufficient heat. It will also stop the oil burner in case of excessive bonnet temperature. This hook-up delays the starting fan until heat is



OIL FIRED FORCED WARM AIR

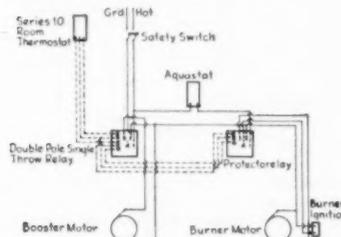
built up, thus warming instead of cooling rooms when the unit starts up.

Oil-fired gravity circulation. This system is identical with hand-fired and stoker-fired coal hook-ups except that the protector-relay replaces timer relay or damper motor. This protector-relay is for the intermittent burner ignition, probably the most essential control in any oil burner installation.



OIL FIRED GRAVITY CIRCULATION

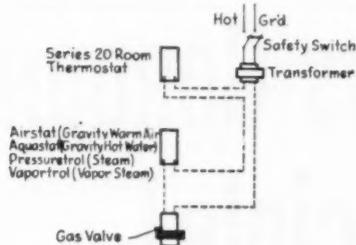
It stops the burner if there is a stoppage in oil flow, and also stops ignition motor if ignition fails.



OIL FIRED FORCED HOT WATER

Oil-fired forced hot water. When the room thermostats call for heat, the relay closes the power circuit and starts the booster motor. This also energizes the protecto-relay, which starts the oil burner. The aquastat will stop the oil burner if water temperature becomes too great, while the booster pump will continue to run until the room thermostat is satisfied.

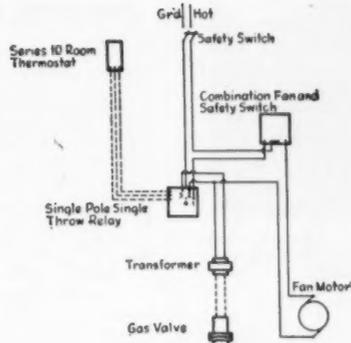
Gas-fired gravity circulation. The line voltage power circuit is reduced in voltage for operation of a solenoid gas valve installed in the gas supply pipe. The valve operates from a low-voltage thermostat, through the limit



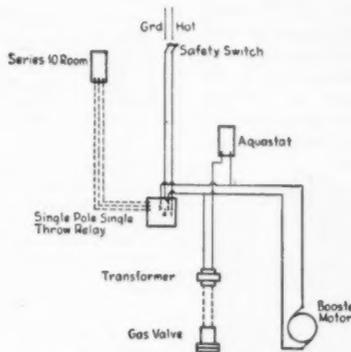
GAS FIRED GRAVITY CIRCULATION

control, which prevents overheating of the unit.

Gas-fired forced warm air. This is the same as the oil-fired forced warm air except that a single-pole, single-throw relay is used instead of the calls for heat, closes the relay, and causes the gas supply valve to open. Bonnet temperature activates the fan which will run as long as bonnet temperature stays high enough. Fan and safety switch prevents bonnet from overheating.

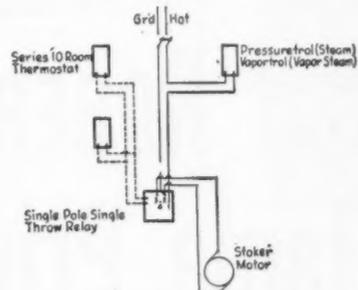


GAS FIRED FORCED WARM AIR



GAS FIRED FORCED HOT WATER

Gas-fired forced hot water. This is similar to the gas-fired warm air system except that an aquastat is used in place of combination fan and safety switch. Booster pump operates directly off room thermostat, runs as long as it calls for heat. The aquastat is strictly limit control.



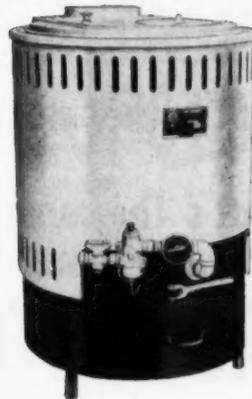
STOKER FIRED STEAM WITH YEAR ROUND DOMESTIC HOT WATER

Stoker-fired steam system with year-round domestic hot water. This has the same controls as for stoker-fired steam with gravity circulation, except that a single-pole, single-throw relay is used instead of a timer relay. An immersion aquastat connected in parallel with the thermostat causes the stoker to run enough to maintain heat within the unit and heat domestic water. This also acts as a hold-fire control.

SHOW 'EM



and
SELL 'EM
AUTOMATIC INCINOR
THE GAS-FIRED INCINERATOR



A.G.A. APPROVED
Approved by A.G.A. for use with natural, manufactured or mixed gases, or liquefied petroleum gases.

A "MUST" in homes with automatic heat—a great convenience in any home.

Automatic Incinor gives you FULL PROFIT—NO TRADE-INS.

ACT NOW
for complete details

INCINERATION DIVISION
BOWSER, INC., CAIRO, ILL.

NATIONAL PRECISION CUT

DOUGLAS FIR LOGS ARE

SIMPLE AND FAST TO LAY-UP



Here is the labor-saving material to meet the popular demand for rustic type homes and commercial buildings.

National Log Structures OFFERS

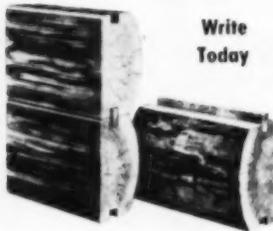
DURABLE DOUGLAS FIR BUILDING LOGS

Splined logs — Precision cut — Bark peeled — Chemically treated

READY TO "LAY-UP"

National Douglas Fir Logs are squared on three sides and precision cut with no taper to widths of 7", 8" or 9 inches and lengths of approximately 8' 3". Grooved on top and bottom to receive wooden spline which is furnished with the logs. Inside surface of log is planed and may be used as the finished interior wall. Very good for houses, restaurants, motels, lodges, resorts, etc. AVAILABLE NOW. Write direct to mill for quotations.

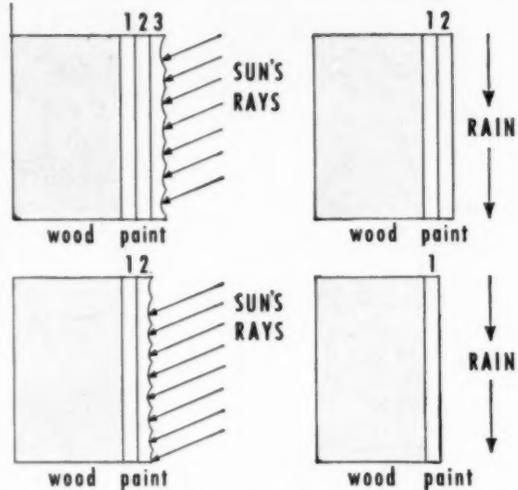
Write Today



Splined joints easily water and weather-proofed with caulking compound or mastic.

NATIONAL LOG STRUCTURES INC. STAYTON, OREGON

CHALKING PROCESS ON A WHITE SURFACE



The sun's rays and weathering destroy the oil in the top glossy layer. The pigment particles become loosened, rolling up accumulated dirt as they do so and are washed off by the rains, exposing the second coat to the same process. This is "chalking," and in a good house paint the process is chemically controlled to (1) keep the house clean and bright in appearance, (2) prevent the paint coating from becoming unduly thick with repainting, and (3) to relieve certain stresses and strains which occur within the coatings and cause checking and cracking. The normal 3-coat job in the United States is durable for about 5 years, but the chalking process will go faster in southern Florida, for instance, where there is more sunshine and more rain, than in northern Maine, where there is not so much sunlight. In very dry sections, like New Mexico, the erosion by chalking is slowed down.

What's the most wanted fuel in home heating? ... **GAS**

What's the most Economical, most Efficient way to burn gas?

The Patented ROBERTS-GORDON Spreader Flame Principle!

Is there a complete line of ROBERTS-GORDON Home Heating Equipment for every type of system, for every size house? **YES**

Write us for the name of your Factory Representative

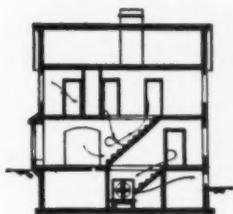


ROBERTS-GORDON

Spreader Flame

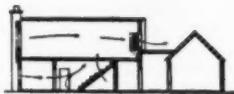
Manufacturers of Gas Heating Equipment For Over a Quarter of a Century BUFFALO 6, N. Y.

BELT DRIVE FAN INSTALLATIONS



Basement

If basement windows are large enough to provide ample exhaust, this location is sometimes preferred. Enclose stairwell and locate fan under stairs (removing risers) or on one side.



Gable Installation

When the attic is finished, making it airtight, the fan is often installed behind a manual shutter or metal louvre in the gable. Entire attic serves as a suction box for opening in attic floor.



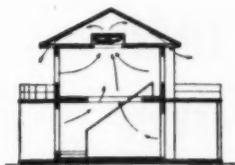
Attic Stairway

Fan is connected with an enclosed portion of the stairwell. No ceiling grille is required, attic door is opened when fan is operating. Valuable attic floor space is saved.



Suction Box

Because many attics are not sealed, it is necessary to use an airtight suction box over a centrally located ceiling grille to assure the full effect of the fan in the rooms below.



Vertical Discharge

All Hunter belted units can operate in a horizontal position, discharging vertically. This solves installation problems in many modern homes having limited attic clearances.



Attic Wall

In homes where main portion of attic space is finished, unit may be mounted in partition wall, discharging into unfinished attic space. Fan is installed in the shipping crate.

Hunter Fan Data

PRESSURE OF ATMOSPHERE FOR VARIOUS READINGS OF BAROMETER

Barometer Inches	Pounds per Sq. Inch	Barometer Inches	Pounds per Sq. Inch
28.00	13.75	29.75	14.61
28.25	13.87	30.00	14.73
28.50	13.99	30.25	14.85
28.75	14.12	30.50	14.98
29.00	14.24	30.75	15.10
29.25	14.36	31.00	15.22
29.50	14.48	31.25	15.34

AIR-JET Packaged CHIMNEYS

● **NEW** exclusive jet boosted air-cooled principle affords light yet sturdy construction. Saves enough space for an average linen closet! Saves time and money on-the-job.

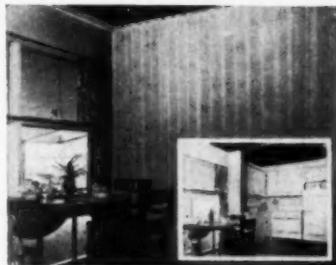
● **LOW COST** only 1 man-hour labor required for average installation . . . no cement . . . no special tools . . . nothing extra is needed for installation . . . no assembling . . . **READY TO INSTALL** . . . factory painted.

● **WRITE NOW!** For complete information and specifications. Box 550, General Products Co., Fredericksburg, Va.



GENERAL PRODUCTS COMPANY
FREDERICKSBURG, VIRGINIA

BAMBOOFOLD



**NEEDS LESS SPACE THAN A DOOR!
IS MORE VERSATILE THAN A DOOR!
IS MORE DECORATIVE THAN A DOOR!**

as Room Divider

BAMBOOFOLD is the answer to difficult door problems. It encloses, provides privacy for dining and cooking areas . . . is ideally suited for walk-in closets. **BAMBOOFOLD** permits circulation of air—preventing mold, odors, warpage and moths. Now being used by leading builders throughout the country.

BAMBOOFOLD is constructed of finest inside core bamboo—on self-lubricating nylon slides for easy operation. Laboratory tests have proven a minimum lifetime of thirty years. Approved by the FHA.

AMERICAN BAMBOO CORP.

General Office: 171-06 Jamaica Ave. Republic 9-1062-3
Jamaica 3, N. Y.
Plants: Jamaica, N. Y.—Tullytown, Pa.



WROUGHT IRON COLUMNS

Belson's superior hand wrought columns are available in two convenient stock heights: 7 1/2, 8 1/2; each height is adjustable 6" by cutting upright posts to receive anchor plates. For heights exceeding 8 1/2, custom-built columns are readily fabricated. Single panel flat or double panel 90° corner columns are available in all designs.

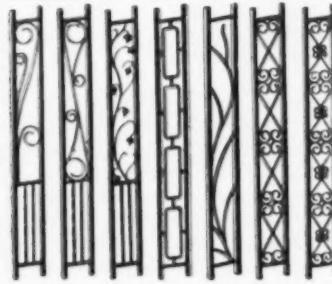
CP221

STANDARD SPECIFICATIONS

Upright posts 1" square
Width 11" over all
Scroll panels 1/2" x 5/8"
Finish: rust inhibitor primer.



Adjustable anchor plates are provided for all columns.



FREE PROMPT ESTIMATES

Wrought Iron Columns Fence
Iron Railings Grills
Brackets Weather Vanes Gates
- Write For Complete Catalog -

BELSON

MANUFACTURING COMPANY

Aurora Ave. and Butterfield Rd. Aurora 5 Illinois
SEND YOUR PLANS TODAY

Types and Styles of Metal Trim

8 BASIC GROUPS • Metal trims are divided into eight groups shown on this page. Each group includes several different styles of trims for the same general purpose. For example, nosings include those with flanges that extend under the coverings; those with a flange which fits into a groove; and those without flanges. Also, many Chromedge sections are not limited to a single use. For example, No. 102, a nosing listed as an INSERT TRIM, is also used as a cap trim. These trims are classified as to their most frequent use. (Insert trims are grouped separately).

CAP TRIMS • For upper edges of dado, wainscot, or cove-base. Those with a projecting lip at upper edge in back can be used also as nosings.

WALL TRIMS • or divider bars—conceal joints between panels of either like or contrasting coverings, used for decorative paneling.

INSERT TRIMS • Shown separately because of colorful inserts this group includes nosings, wainscot caps, corners and coves.

COLOR RECESS TRIMS • This group of nosings features painted recesses for decorative beauty.

PRICE TAG TRIMS • A separate group of nosings for specialized use. Available for all standard price tickets held by grooves in mouldings.

CORNERS AND COVES • Inside and outside corners, horizontal or vertical. Many have matching end stops and corner fittings.

EDGINGS AND BINDERS • These trims bind, seal or protect edges of coverings where exposed to wear, stress or moisture. Includes sink-well edgings, carpet-bindings, threshold saddles and similar sections.

NOSINGS • For outer edges of bars, counters, cabinets, tables, sink tops, drain boards, stair treads and similar points. Nosings with flat backs serve also as wall trims. Those with a raised lip provide non-drip counter edges.



PACKAGE receivers are available in various trims and colors, made of insulated steel, with inner and outer doors



GRILLE or louvre for ceiling fan is a typical installation. Similar metal louvres are also popular in doors to control drafts and room ventilation

men over 45

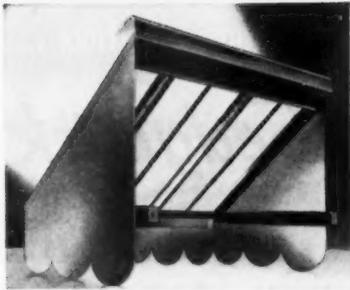
More than six times as many men of your age will die of lung cancer this year as died in 1933. Our research scientists still don't know why.

They *do* know, however, that over half of those who will develop lung cancer *can* be saved... if they get proper treatment while the disease is still in the silent, symptomless stage. That's why we urge you to have a chest X-ray every six months no matter how well you may feel.

For more information call us or write to "Cancer", care of your local Post Office.

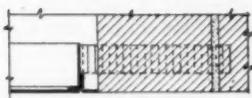
American Cancer Society





POPULAR for small homes, metal awnings over both windows and doorways keep out rain, sun glare

Style "M"

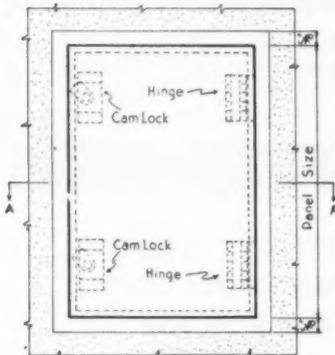


Section

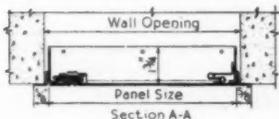


Elevation

Corrugated Anchor Detail and Detail of Panel in Brick, stone or Structural Facing Tile



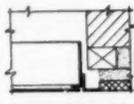
Elevation



Section A-A



Cylinder Lock Detail



Detail of Panel in Bathroom Tile Wall

Installation details for Style "M" access door.

Courtesy Inland Steel Products Co.

APRIL 1953



THE COMPLETE...COMPACT TYPEWRITER FOR PROFESSIONAL AND SMALL BUSINESS USE

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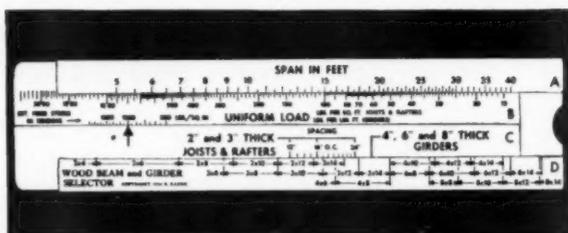


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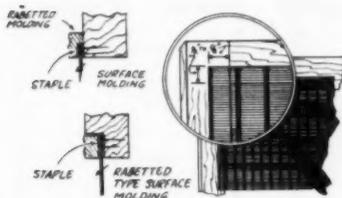
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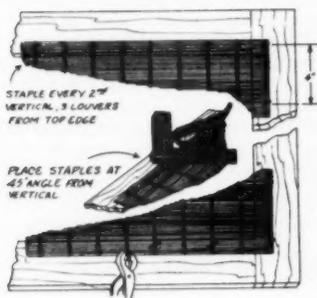
how to install aluminum shade screening



- 1 Cut Shade Screening** 1" to 1 1/4" larger than inside frame width so fabric overlaps rails of frames 1/2" to 3/8" on all four sides. Use ordinary shears or tin snips.



- 2 Lay Shade Screening** on frame following directions on selvage so louvers slant down and out. Place a piece of wood or metal, the same thickness as the frame, on work table to keep loose screening from sagging. Line up verticals with sides of frame.



- 3 Staple.** Use ordinary 1/8" staples, galvanized preferred. Stapling machine pictured simplifies operation. Straddle verticals with staples and slant them so tension is on different louvers. If smaller staples are used, staple every vertical. Do top rail across first, then pull screening taut (there is no stretch to Shade Screening) and apply staples on bottom rail as on top rail.



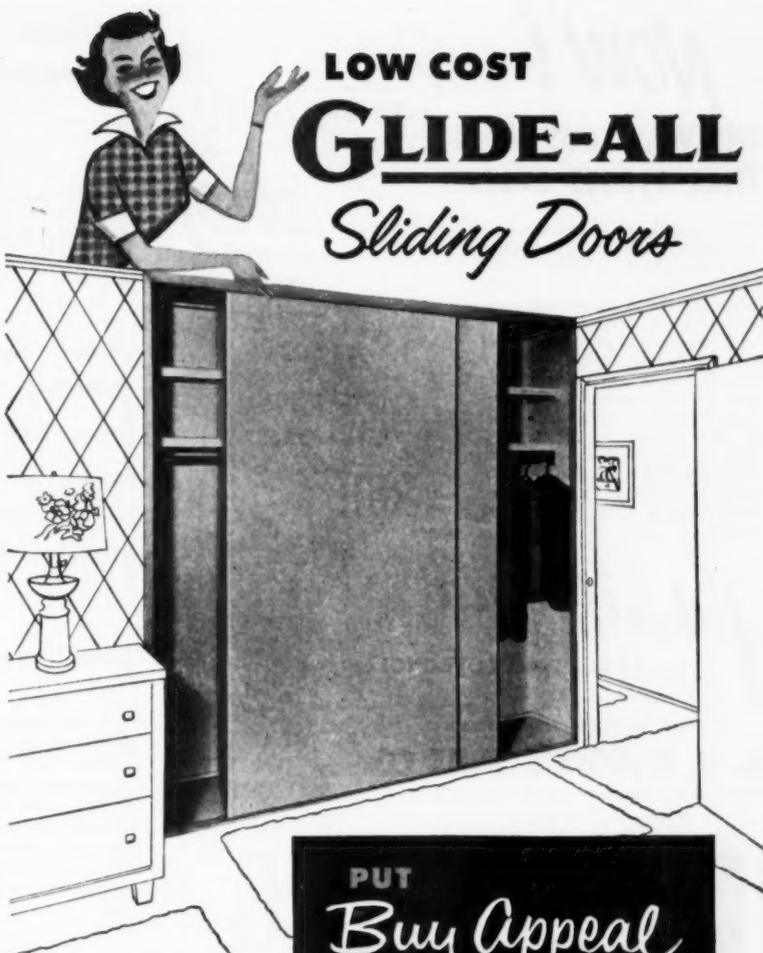
- 4 Trim off excess** that will not be covered by moulding on top and bottom. Any reasonably sharp knife will do. A linoleum knife is easiest. Start in the center and cut out toward the sides.



- 5 Apply moulding.** Use 1/2" to 1" aluminum or galvanized brads if obtainable. These brads on the side rails should be through screening and will be all that is necessary to hold screening on the sides.

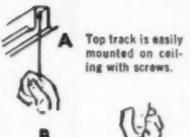
Use same process for re-wiring old screen frames

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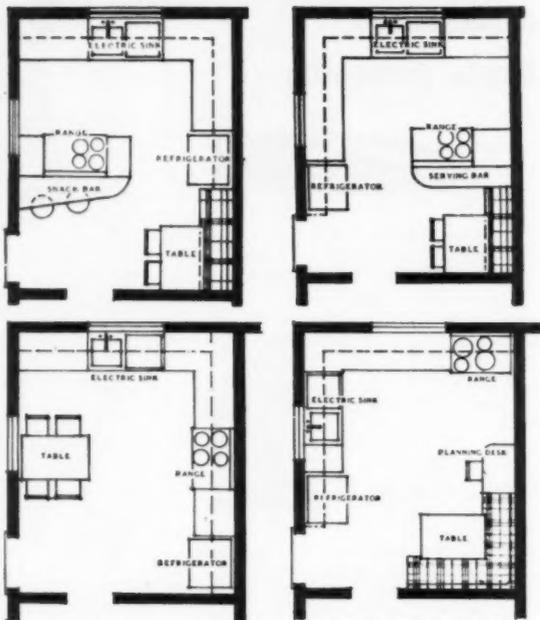
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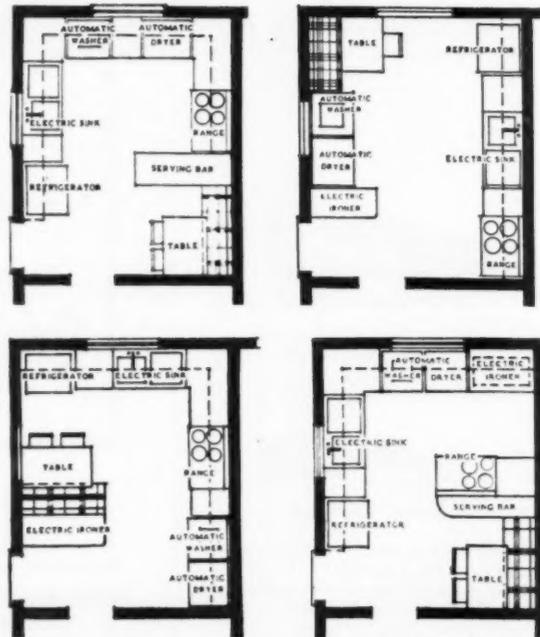
kitchen - dining combinations . . .



Courtesy General Electric Company

In the same space, a large number of possible arrangements of appliances and cabinets with built-ins and other fixtures are possible, as is illustrated here with but a few of the possible combinations. Whether the kitchen is used more for cooking, for eating and lounging, for laundry and utility activities, will determine its best layout. The laundry layouts offered below also represent only a few of the many possibilities shown today with the host of modern appliances, special purpose cabinet units and other built-ins available to the builder

kitchen - laundry layouts . . .



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TFE-114 11.4 cu. ft. capacity
 • Automatic Defrosting
 • Automatic Temperature Control
 • Roll-Out Shelves
 • 7-Lb. Freezer

FROST-FREE MODELS WITH MAGIC DOOR OPENER
DFE-12 12 cu. ft. capacity
DFE-10 10.2 cu. ft. capacity (shown at right)
 • Automatic Defrosting
 • Roll-Out Shelves
 • Two Humidifiers
 • 56-Lb. Freezer



OTHER FROST-FREE MODELS
DFE-84 8.4 cu. ft. capacity
 • Automatic Defrosting
 • Full-Width Humidrawer
 • 42-Lb. Freezer

★ **DFE-75 7.4 cu. ft. capacity (shown at left)**
 • Automatic Defrosting
 • Full-Width Humidrawer
 • Adjustable Shelves
 • 24" Wide Cabinet

COLDER COLD MODELS
DE-9 8.8 cu. ft. capacity
 ★ **DE-8 7.9 cu. ft. capacity**
 ★ **SE-8 B cu. ft. capacity**
 • Lift-Out, Adjustable Shelves
 • Full-Width Humidrawers
 • Self-Aligning Door Latches
 ★ **24" WIDE CABINETS**

ECONOMY MODELS FOR COMPACT KITCHENS
 ★ **NE-5 1 cu. ft. capacity**
 ★ **HE-6 6.2 cu. ft. capacity**
 • 24" Wide Cabinets
 • New, Space-saving Hinges
 • 31½" Full-Width Freezers

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 has a big, full-width Freezer that women prefer, and striking arctic blue interior trim. Most models have an 18-lb. Meat Keeper. All have the famed Economizer Mechanism with proved 24-year record of low-cost operation and maintenance.

WESTINGHOUSE HOME FREEZERS

Today's leading builders 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. Available in 8.5, 12, and 18 cu. ft. sizes with either left or right-hand doors.

REFRIGERATOR SPACE REQUIREMENTS

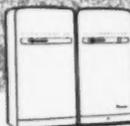
(All models available with either left or right-hand door opening)

Model	Height	Width	Depth Including Hardware	Depth Door Fully Open	Width 75° Door Opening	Shelf Area Sq. Ft.
TFE-114	65½"	32"	29¾"	56¾"	34½"	19.0
DFE-12	65½"	32"	28½"	56¾"	34½"	20.4
DFE-10	59¼"	32"	28½"	56¾"	34½"	17.0
DFE-84	57½"	28"	29¾"	52¾"	30½"	14.4
DFE-75	56½"	24"	29½"	48¾"	26½"	14.3
DE-9	57½"	28"	29¾"	52¾"	30½"	17.4
DE-8	56½"	24"	29½"	48¾"	26½"	16.1
SE-8	56½"	24"	29½"	48¾"	26½"	16.1
HE-8	56½"	24"	29½"	50½"	24½"	16.1
HE-6	50"	24"	28¾"	50½"	24½"	11.8
HOME FREEZER						
UFE-180	67¾"	36"	31"	62¾"	38½"	18.6
UFE-120	65½"	32"	29¾"	56¾"	35½"	13.7
UFE-85	57½"	28"	29¾"	52¾"	31½"	11.4

HOME FREEZERS

UFE-180
 18.0 cu. ft. capacity
UFE-120
 12.0 cu. ft. capacity
UFE-85
 8.5 cu. ft. capacity
 (shown at right)

A Westinghouse Home Freezer is a matching twin to a Westinghouse Refrigerator.



*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 for the first time, is a dishwasher that is styled to look like an appliance, one that stands out in a kitchen and adds beauty. The front-opening, top-loading design offers many advantages. The top is a full-time, unbroken work surface. Shelves or cupboards can be installed over it at standard height. Has greater washing capacity than any other dishwasher, yet is only 24" wide.

Available in four models: the 48" Dish-

washer-Sink and 24" Under-Counter Model (both illustrated); the 24" free-standing Cabinet Model, with porcelain enamel top; and a 24" Portable Model. All have completely automatic pre-rinse, wash, double-rinse and drying cycles.

Dishwasher connects to the sink drain line by means of a special "Y" tail-pipe. This eliminates need for separate drain line and trap. Operates on 110-120 volts, a-c.



DWB-480SC



DWB-13

DISHWASHER SPACE REQUIREMENTS

Model	Width	Height	Depth Including Hardware	Depth With Drawer Open
Under-Counter, DWB-13	24"	34 1/2"	26 1/8"	42 1/2"
Cabinet, DWB-24	24"	36 7/8"	26 1/8"	42 1/2"
Portable, DW-24P	24"	36 7/8"	26 1/8"	42 1/2"
Dishwasher-Sink, DWB-480SC**	48"	36 7/8"	26 1/8"	42 1/2"

* Add 4" for backplasher

** Also available less top. Order Model DWB-4850.

WESTINGHOUSE WASTE-AWAY® FOOD WASTE DISPOSER

An appliance that adds "buy appeal" far in excess of actual cost. A Waste-Away shreds food waste, even bones, and flushes it away, down the sink drain line in seconds. Performs equally well when connected to city drain lines or with septic tanks. Eliminates need for garbage can, garbage chute, or garbage incinerator.

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 8 1/2" between bottom of sink bowl and center line of drain line in wall for drain connections. Plugged opening in upper housing permits Westinghouse Dishwasher to drain through Waste-Away. Operates on 110 volts, a-c.

G-45 Dimensions: 8 7/16" wide x 11" deep x 15 1/16" high.



G-45

WESTINGHOUSE LAUNDRY EQUIPMENT

It's amazing how prospects "go" for houses equipped with Westinghouse Automatic Laundries. In city after city, this has proven true. People like the convenience these famous appliances provide, especially when the house is small and washing and drying facilities are limited. You can provide a complete laundry in only 5 ft. 3 in. of floor space, regardless of models selected.

LB-6 LAUNDROMAT®

Automatically washes, triple-rinses and damp-dries clothes, eliminating need for stationary laundry tubs. Does not require bolting down and can be installed in basement, kitchen or utility room. Features the popular Weigh-to-Save Door and Water Saver. Its thorough, yet gentle Agi-Tumble washing action cleans dirtiest work clothes, yet is safe for the new miracle fabrics. Operates on 115 volts, a-c. This Laundromat and the Clothes Dryer make an identical

"Twin" installation to produce compact laundering facilities.

RL-1 LAUNDROMAT

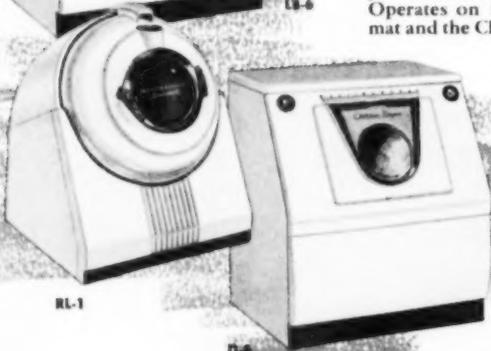
The bolt-down, economy version of the LB-6 operates in exactly the same manner and does the same fine job. Does not have the Weigh-to-Save Door and Water Saver. Operates on 115 volts, a-c.

D-6 CLOTHES DRYER

A Westinghouse Clothes Dryer eliminates need for an extensive drying area. It electrically dries clothes completely or to desired dampness for ironing. May be installed in basement, kitchen or utility room. Features handy-loading shelf door and Singing Signal which sounds when clothes are dry. Can be conveniently and economically vented outdoors from right side or back of the appliance. Dryer can be quickly converted from 115/230 volt to 115-volt, a-c operation.



LB-6



RL-1

D-6

LAUNDROMAT AND CLOTHES DRYER SPACE REQUIREMENTS

Model	Width	Height	Depth	Depth With Door Open
LB-6	31"	36 1/2"	27 1/4"	42 1/2"
RL-1	27 3/4"	35 3/4"	23 3/4"	30 3/4"
D-6	31"	36 1/2"	27 1/8"	42 1/8"

*Removal of plastic fill pipe cover permits installation under standard height counters.

**Allow a minimum of 3" from back of appliance to wall for plumbing connections. LB-6 Laundromat can be flush mounted by use of a special bracket available as an accessory.

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. To mention a few: **FIRST** with the 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 in any rack position; **FIRST** with the exclusive Automatic Corox with Electronic Eye . . . the world's first completely automatic surface unit.

The new 1953 Westinghouse Speed-Electric Ranges are beautifully styled and available in models and sizes for every need. All are simple to install, requiring only the usual 230-volt, a-c range circuit.

COMMANDER MODEL AD-774

This deluxe, double-oven range has the exclusive Automatic Corox Unit with Electronic Eye . . . 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 . . . a second sealed Oven for extra baking or roasting capacity . . . beautiful Color-Glance Controls, plus a Two-Level Speed Cooker for fast French frying . . . Built-in Oven Timer and two large aluminum storage drawers on nylon rollers.

COMMANDER MODEL BD-74

This big, new range has the sensational Super Corox Unit that gets **RED HOT** in 30 seconds, plus two standard Corox Units. All are the exclusive Westinghouse Plug-in type. Also includes a Giant Miracle Sealed Oven, Two-Level Speed Cooker, Color-Glance Controls, Built-in Clock and Automatic Oven Timer and three storage drawers.

RANGE SPACE REQUIREMENTS

Model	Width	Height	Depth With Door Open
AD-774	40"	47 $\frac{3}{4}$ "	42 $\frac{1}{2}$ "
BD-74	40"	47 $\frac{3}{4}$ "	42 $\frac{1}{2}$ "
DD-74	40"	44 $\frac{1}{16}$ "	42 $\frac{1}{2}$ "
CD-774	40"	43 $\frac{7}{8}$ "	42 $\frac{1}{2}$ "
ED-74	40"	43 $\frac{7}{8}$ "	42 $\frac{1}{2}$ "
HDA-244	30"	46 $\frac{1}{4}$ "	44 $\frac{1}{4}$ "
EDH-74	40"	43 $\frac{7}{8}$ "	42 $\frac{1}{2}$ "
FD-64	21"	40"	43 $\frac{3}{4}$ "
FD-63	21"	40"	43 $\frac{3}{4}$ "

CHAMPION MODEL DD-74

Beautifully styled. Has a Super Corox Unit, Giant Miracle Sealed Oven, Two-Level Speed Cooker for fast French frying, Color-Glance Controls, Automatic Appliance Outlet, Built-in Clock and Automatic Oven Timer.

COMMODORE MODEL CD-774

A truly deluxe electric range with famous Miracle Sealed Oven plus a Second Sealed Oven for extra-cooking capacity. Has a Super Corox Unit, plus three other speedy Corox Units. Tel-A-Glance Controls, a Built-in Light, Clock and Automatic Oven Timer, two large storage drawers.

IMPERIAL 30 MODEL HDA-244

This is a spacesaving range with deluxe features that takes only 30 inches of floor space. Features a King Size 24" Miracle Sealed Oven with Look-in Door, and Oven Light, Super Corox Unit plus three other speedy Corox® Surface Units, Built-in Clock and Automatic Oven Timer, Appliance Outlet, Minute Timer, and one extra-large storage drawer.

CHALLENGER MODEL ED-74

Here's real value in clean, cool, fast electric cooking. Features a big Miracle Sealed Oven, three speedy Corox Units and a 6-qt. Econo-Cooker, Tel-A-Glance Controls, Appliance Outlet, three storage drawers. (Can be equipped with accessory Clock and Oven Timer.)

MODEL EDH-74

Here's the perfect electric range for locations needing a full-sized, low-priced model. This solid base model has an extra-large True-Temp oven, four fast Corox surface units, two 8 inch and two 6 inch. Also includes famous Westinghouse Tel-A-Glance Controls, Single Dial Oven Control, Oven Signalite, and Appliance Outlet.

CORONET RANGES

APARTMENT HOUSE MODELS

FD-64 Only 21" wide. Has four full-sized Corox Surface Units, large Tru-Temp Oven insulated on all six sides, Appliance Outlet, and Titanium porcelain enamel range top.
FD-63 Same as model FD-64 except that this range has three surface units instead of four.



AD-774



BD-74



DD-74



CD-774



FD-64



ED-74



ED-74



HDA-244

Westinghouse Appliances

Ahead in Design • Features • Sales Appeal

WESTINGHOUSE ELECTRIC WATER HEATERS

The well-known Westinghouse name on Water Heaters in your homes gives an immediate impression of quality—an impression that carries over to all details of your homes. It adds a real selling feature to your homes.

Westinghouse Water Heaters can be installed anywhere—basement, kitchen, utility room, alcove, closet. Need no provision for flue or fuel storage. They can be installed nearest point of greatest use. This is 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 30, 40, 52, 66 and 80-gallon capacities, with single or double heating elements.

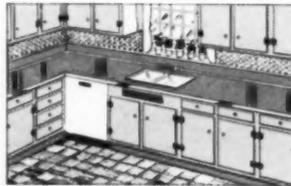
TABLE-TOP MODELS—In 30, 40 and 50-gallon capacities, single or double heating elements. Table-Top Water Heaters have porcelain enamel platforms with four-inch backsplashes that provide a standard-height work surface. New 50-gallon size requires no more space than the 40.

UNDER-COUNTER INSTALLATION (see illustration)

Table-Top Heaters can be installed under custom work surface, simply by removing the porcelain enamel platforms. On 50-gallon size, a slight recess in underside of custom work surface (described in installation instructions) may be necessary to accommodate hot water line.

SIMPLIFIED TABLE-TOP PLUMBING

Special recessed back on all Table-Top models simplifies plumbing, permits water connections to be made at rear, through floor or wall. Illustration at right, with top removed, shows how recessed pipe channels permit installation flush against wall.



Under-Counter Installation



Simplified Plumbing

WATER HEATER SPACE REQUIREMENTS

De Luxe Models	Capacity	Height	Diameter	
CF-10D	10 gal.	29 ³ / ₄ "	18 ³ / ₄ "	
CF-30D	30 gal.	55 ³ / ₄ "	20 ³ / ₄ "	
CF-40D	40 gal.	55 ³ / ₄ "	23 ³ / ₄ "	
CF-52D	52 gal.	59 ³ / ₄ "	25 ³ / ₄ "	
CF-66D	66 gal.	59 ³ / ₄ "	27 ³ / ₄ "	
CF-80D	80 gal.	69 ³ / ₄ "	27 ³ / ₄ "	

Table-Top Models	Capacity	Height*	Width	Depth
AF-30T	30 gal.	36"	21"	25"
AF-40T	40 gal.	36"	24"	25"
AF-50T	50 gal.	36"	24"	25"

*Add 4" for backsplash.

POWERAIRE[®] VENTILATORS

With Exclusive, Super-Safe, Super-Quiet Hemcolite S-R* Blades



MODEL 8PHV

The promise of a clean, comfortable kitchen or laundry is a "must" consideration with house prospects. Westinghouse Poweraire Home Ventilators will provide it. Easy to install in practically any wall thickness. Grille—one-piece steel with baked-on white and gray enamel finish. Easily removed for cleaning. Adjustable wall sleeve accommodates all standard wall thicknesses.

MODEL 8PCV

The Poweraire ceiling ventilator also has a one-piece grille, easily removed for cleaning. 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.

SPECIFICATIONS

Catalog No.	Blade Size	Volts	Cycles	Speed RPM	Air Displacement CFM**	Watts	Approx. Shipping Wt.-Lbs.
8PHV	7 ¹ / ₂ "	115	60	1900	250	52	12 ¹ / ₂
8PCV	7 ¹ / ₂ "	115	60	1900	250	52	10

Watts, rpm and air displacement may vary 10% from values shown.

**By Standards of National Electrical Manufacturers Association.

*T.M.

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

FREE Information

Read the ads! Manufacturers want you to know all about their products and how to use them properly. Use this BIG card, the easy way, to get all the facts.

ABOUT ADVERTISED PRODUCTS

The postcard below is designed to help the readers of American Builder get further information about the Products and Equipment Advertised in this CATALOG-DIRECTORY Issue.

Keep your product file up to date. Get this FREE information. All you have to do is check the items below and mail the postcard to us. No postage necessary. We will forward your requests to the manufacturer, who will promptly mail you complete data.

WE PAY THE POSTAGE

Send me further information about products or equipment advertised in the CATALOG-DIRECTORY.

Please send us (DATA) from manufacturer's indicated below, or the name of nearest (DEALER).

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MAIL THIS ENTIRE CARD — WE PAY THE POSTAGE

PRINT NAME AND ADDRESS

NAME _____

FIRM _____

STREET _____

CITY _____ ZONE _____ STATE _____

HERE'S
REAL HELP
for
YOU

ON ADVERTISED PRODUCTS

Keep abreast of the constant changes taking place in the building field. The products advertised in this issue are designed to help you do a better building job in 1953. Read the pages of this issue with care. Be sure to see your local LUMBER and BUILDING SUPPLY DEALER for all your building needs. If he doesn't carry the products you're interested in, here's a quick, easy way to get complete information. Just check and mail the post-card below. We'll do the rest.



BUSINESS REPLY CARD

First Class Permit No. 31775, Sec. 34.9, P. L. & R., Chicago, Illinois

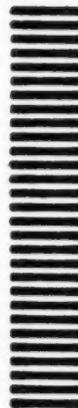
4 cents Postage will be paid by

Business Manager

AMERICAN BUILDER

79 West Monroe St.

Chicago 3, Ill.



1953 American Builder Directory

THIS, the third 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 of

building products and equipment with addresses;

Section IV—an alphabetical list of industry and allied professional associations;

In addition, service organizations prepared to render aid to the industry and to furnish helpful information on special problems are listed under appropriate titles.

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.

The names of manufacturers who advertise in *American Builder* are printed in boldface here, in the brand names list and in the list of manufacturers' names and addresses starting on page D-76

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

This section includes only the names of the manufacturers. The addresses of these manufacturers are listed in alphabetical order in Section III, starting on page D-76.

As an example, suppose that Mr. Jones wants to find the name and address of a manufacturer of ladder accessories. First, he will turn to the heading "Ladder Accessories" in Section I. Here he will find listed the names of eight manufacturers among which he may select Red Devil Tools. Turning to Section III, he will find the address of the company (Coit Street, Irvington 11, New Jersey.) in its alphabetical order under the name Red Devil Tools.

► ABRASIVE PAPER & CLOTH

Abrasive Products Inc
AMERICAN FLOOR SURFACING MACHINE CO
Armour & Co Sandpaper Div
Atlas Abrasives Corp
BENR-MANNING CORP DIV NORTON CO
Carborundum Corp
Clarke Sanding Machine Co
Clover Mfg Co
Detroit Surfacing Machine Co
Dirata Mfg Co
Mid-West Abrasive Co
Minnesota Mining & Mfg Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
Sandpaper Inc
Southern Galvanizing Co

► ACOUSTICAL MATERIALS

Air-O-Cel Co
American Hibrok Co
ARMSTRONG CORK CO
CABOT (SAMUEL) INC
CELOTEX CORP
CERTAIN-FEED PRODUCTS CORP
DANT & RUSSELL INC
E G Building Parteners Corp
Hansson (Elof) Inc
NONASOTE CO
INSULITE CO DIV MINNESOTA & ONTARIO
PAPER CO
JOHNS-MANVILLE CORP
Kelley Island Lime & Transport Co
Kimberly-Clark Corp Kimsul Div
Lockport Cotton Battling Co
Mid-West Acoustical & Supply Co
NATIONAL GYPSUM CO
OWENS-CORNING FIBERGLAS CORP
Porete Mfg Co

REYNOLDS METALS CO

Simpson Logging Co
Taylor Bedding Mfg
U S GYPSUM CO
WOOD CONVERSION CO
ZONOLITE CO

► ADHESIVES

Abesto Mfg Corp
Actna Plywood & Veneer Co
A & F Tileboard Co
AMERICAN ASPHALT ROOF CORP
American Varnish Co
ARMSTRONG CORK CO BUILDING MATERIAL DIV
BANGLAY MFG CO
BIRD & SON INC
Borden Co Chemical Div
BRUCE (E L) CO
B & T METALS CO
CABOT (SAMUEL) INC
Cambridge Tile Mfg Co
Camp Co
CAREY (PHILIP) CO
CELOTEX CORP
Christy Co Inc
Commercial Paste Co
Conglomer-Naire Inc
Consumers Glue Co
Dad & Lad Co
Davis Plywood Corp
DuPont De Nemours (E T) & Co
East Coast Tileboard Corp
Firestone Industrial Products Co
Flexrock Co
FLINTKOTY CO
Gibbs Boarding Corp
Goodrich B F Co
Hayes Adhesives Co
HIGGINS INC

INSULITE DIV MINNESOTA & ONTARIO

PAPER CO
JOHNS-MANVILLE CORP
Lastic Products Co Inc
Lasting Products Co
Lelton Co
LePage's Inc
Lino-Paste Co
Madison Glue Corp
WARSH WALL PRODUCTS INC
MASTIC TILE CORP OF AMERICA
MORTELL (J W) CO
Midcontinent Chemical Co
Milwaukee Plywood Co
Minnesota Mining & Mfg Co
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E) CO
Mortell (J W) Co
National Adhesives Div National Starch
Friede Inc
National Casein Sales
Palsley Products Inc
Paboo Products Inc
Pattent Cereals Co
PECORA PAINT CO INC
Perkins Glue Co
PITTSBURGH PLATE GLASS CO
Placo Div Palsley Products Inc
PLASKON DIV LIBBEY-OWENS-FORD GLASS CO
Plasterton Wallboard Co
PRESTILE MFG CO
Reliable Paste Co
Robins & Bass Co
Sauereisen Cement Co
Sehalk Chemical Co
Selck (Walter E) & Co
Sheffield Bronze Paint Corp
SHINGLETIN
Sloane-Halton Corp
Standard Paste & Glue Co
Stonhard Co

Sullivan Co
Superior Wall Products Co
S & W Moulding Co
Tamm Industries Inc
Thomas Moulding Floor Mfg Co
Tile-Tex Div Flintkote Co
TYLAC COMPANY
U S GYPSUM CO
U S FLYWOOD CORP
U S Rubber Co
Wallace Mfg Co
Webster (W F) Cement Co
Wesco Waterpaints Inc
Youngtown Mfg Co

► ADVERTISING NOVELTIES & AIDS

Advertisers Exchange Inc
Advertisers' Mfg Co
Allied Cloth Specialties
American Textile Products Co
Bemis Brothers Bag Co
Berg (F O) Co
Bertram Co
Brown Blodgett Co
Canton Glass Co Inc
Clifton Mfg Co
Colonial Knife Co Inc
Cyclone Seeder Co
Eagle Rule Mfg Corp
Economy Novelty & Printing Co
Edwards (Vincent) & Co
Fulton Bag & Cotton Mills
Garrison-Wagner Printing Co
Gerson (Louis M)
Grammer (L F) & Sons Inc
Holmes Co
Kemper Thomas Co
Lawrence Engineering Service

LUFKIN RULE CO
MASTER RULE MFG CO INC
 Meyer-Both Co
 M & H Daniel
 Minnesota Specialty Co
 Murphy (Thomas D) Co
 National Plan Service Inc
 Newman (Rudolph) Lithographing Co
 Parlan Novelty Co
 Pollack (William H) Poster Print
 Reno
 Robeson Cutlery Co Inc
 Russell Harrington Cutlery Co
 Shedd Brown Mfg Co
 Simon (Gabb)
 Standard Awning Co
STANLEY TOOLS DIV STANLEY WORKS
 Ustler Kuffe Co Inc
 Voss Co Inc
 Wagner Awning & Mfg Co
 Werner Canvas Products Co

▶ ADVERTISING SERVICES

Advertisers Exchange
AMERICAN TELEPHONE & TELEGRAPH CO
 Brodman & Co
ODDGE (F W) CORP
 Ford Advertising Agency
 Hadley Lindsey Co
 Lil-Ad Features
 Lilly (David) Co
 Local Trademarks Inc
 Material Dealers Newspaper Mat Service
 Meyer-Both Co
 Neum Advertising
 Stevens Advertising Agency
 Worldwide Syndicate Constr Bldg

▶ AGGREGATES, LIGHT WEIGHT

Armo Asbestos Covering & Flooring Co
 Alexander Film Co
 American Bildrok Co
 American Perlite Corp
 American Silica Sand Co
 American Vermiculite Co
 Black (John H) Co
 Carolina Perlite Co
CARTER-WATERS CORP
CELOTEX CORP
 Cleveland Gypsum Co
 Combined Metals Reduction Co
DANT & RUSSELL INC
GREAT LAKES CARBON CO
 Gregg Lumber Co
HIGGINS INC
 Hydraulic Pressed Brick Co
JOHNS-MANVILLE CORP
 Kelley Island Lime & Transport Co
 Lasting Products Co
 Maguire (Walker) Co Inc
 Mason Perlite Inc
 Massillon Refractories Co
 McNear Brick Co
 Midwestern Perlite Corp
 Northwest Insulation Co
 Panaselite Perlite Inc
 Perlite Mfg Co
 Petrolite Products
 Precast Slab & Tile Co
 Fumice Aggregate Sales Corp
 Scumler (F E) & Co Inc
 Silbrite Corporation
 Sisco Mines Ltd
 So-Lite Products Co
 Standard Perlite Co
 Sullivan Co
 Tamm Industries Inc
U S GYPSUM CO
 Utah Perlite Products Co
 Virginia Perlite Co
 Waylite Co
 Western Brick Co
 Western Perlite Corp
ZONOLITE CO

▶ AGITATORS, PAINT

Arlington Inc
 Black Bros Co Inc
 Chicago Bronze & Color Works
 Day (J H) Co
 De Vilbiss Co
 Devoe & Reynolds Inc
 Electric Spraying Co
 Fanner Mfg Co
 Hotal Mfg Co
HOLT MANUFACTURING CO
 Miller Mfg Co
 Miracle Paint Rejuvenator Co Inc
 Paasche Airbrush Co
RED DEVIL TOOLS
 Tamm Industries Inc
 Warner Manufacturing Co

▶ AIR COMPRESSORS

ALLIS-CHALMERS MFG CO
 Banks Mfg Co
 Brunner Mfg Co
 Chicago Pneumatic Tool Co
 Davey Compressor Co
 DeVilbiss Co
 Electric Spraying Co
 Essick Mfg Co
 Gardner Denver Co
 Ingersoll-Rand Co
JAEGER MACHINE CO
 Johnson (S) Co
 Paasche Airbrush Co
PITTSBURGH PLATE GLASS CO
 Saylor Beall Mfg Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

▶ AIR CONDITIONERS

Aeme Industries Inc
AIRTEMP DIV CHRYSLER CORP
 American Blower Corp
AMERICAN RADIATOR & STANDARD SANITARY CORP
 Anchor Div Stratton & Terstege Co Inc
 Anometat Corp of America
 Bard Mfg Co
 Berger Furnace Mfg Co
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT DIV
BUSH MFG CO
CARRIER CORP
 Cleveland Steel Prods Co
 Conoco Engineering Wks Div Conkey II D Co
CRANE CO
CROSLBY DIV AVCO MFG CORP
DELCO APPLIANCE DIV GENERAL MOTORS
SALES CORP
 Delta Heating Corp
 Fairbanks Morse & Co
 Fluid Heat Div Anchor Post Products Co
 Frick Co
 Fridaires Div General Motors Corp
GENERAL AIR CONDITIONING CORP
GENERAL ELECTRIC CO AIR CONDITIONING DEPT
 Gilbert & Barker Mfg Co
 Gillen (J L) Co
 Hill Co
 Henderson Furnace & Mfg Co
 Henry Furnace Co
 Homer Furnace & Foundry Corp
 Hunter Heater Co
HUNTER FAN & VENTILATING CO
 International Heater Co
JOHNSON (S T) CO
KELVINATOR DIV NASH-KELVINATOR CORP
 Ko-Z-Air Inc
 Lennox Furnace Co
 Marbo Coll Co
 Medquay Inc
MEYER FURNACE CO
 Mitchell Mfg Co
MODINE MFG CO
MUELLER (L J) FURNACE CO
NORGE DIV BORG-WARNER CORP
NORMAN PRODUCTS CO
 Northwest Metal Products Inc
 Olinx Co
 Olsen (C A) Mfg Co
 Palmer Mfg Co
 Penn Boiler & Burner Mfg Corp
 Persiro Mfg Corp
 Petroleum Heat & Power Co
 Phileo Corp
 Ray Oil Burner Co
RHEEM MFG CO
RICHMOND RADIATOR CO
 Rybolt Heater Co
SERVEL INC
 Surface Combustion Corp
 Thuteler Furnace Co
 Trans Co
TYPHOON AIR CONDITIONING CO
 U S Air Conditioning Corp
 Viking Mfg Corp
 Ward (Edgar F) Industries Inc
 Waterman Waterbury Co
 Wayne Home Equipment Co
WESTINGHOUSE ELECTRIC CORP
 Williams Oil-O-Matic Div Eureka Williams Corp
 Wood (Gar) Industries Inc
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV
 York Corp
YORK RADIATOR CO

▶ AIR CONDITIONERS

ALARMS, BURGLAR
AUTH ELECTRIC CO INC
 Brunell (J H) & Co
 Burglar Trap Co
 Edwards Co Inc
 Federal Enterprises Inc
 General Burglar Alarm Co Inc
 Guard-n-Electric Mfg Co
 Lyon Rural Electric Co

▶ ALARMS, FIRE

Edwards Co Inc
 Faraday Electric Corp
 General Alarm Co
 Rockwood Sprinkler Co
 Sparks-Withington Co
 Sperti Faraday Inc

▶ ALUMINUM, ARCHITECTURAL & ORNAMENTAL

Amex Brass & Bronze Works
 Badger Wire & Iron Works Inc
 Bracco Mfg Co
GENERAL BRONZE CORP
KAWNEER CO
 Newman Brothers Inc
PITTSBURGH PLATE GLASS CO
REYNOLDS METALS CO BUILDING PRODUCTS DIV
 Wenzel Mfg Co

▶ ANCHORS, BUILDING

Ackerman-Johnson Co
 Adams Co

Allen Steel Products
 Arco Expansion Bolt Co
 Carpenter & Patterson Inc
 Cleveland Steel Specialty Co Inc
 Consolidated Iron-Steel Mfg Co
 Conover Steel & Wire Co
 Davis & Shield Co
 Dayton Sure-Grip & Shore Co
 Decatur Iron & Steel Co
 Devco Inc
 Diamond Expansion Bolt Co
 Donley Bros
HAGER (C) & SONS HINGE MFG CO
 Holman & Barnard Inc
 Ideal Hammer Co
 Illinois Zinc Co
 Kees (F D) Mfg Co
LACLEDE STEEL CO
 Lakeside Malleable Casting Co
 Lamson Mfg Co
 Logan Co
 Mastercraft Plastics Co Inc
 Merwin Mfg Co
METAL CRAFTERS DIV CASTONE PRODUCTS CO
MIRACLE ADHESIVES CORP
 Molly Corp
MOORE (GOODLOE) CO
 National Guard Products
PAINE CO
 Polis (J D) Mfg Co
 Rawlplug Co Inc Industrial Div
 Richmond Screw Anchor Co
 Sommer Metallcraft Corp
 Southern Wire & Iron Works
 Star Expansion Products Co
 Stewart Iron Works
TIMBER ENGINEERING CO
 U S Expansion Bolt Co
 United Metal Clamp Co
WAGNER MFG CO
 Williams Form Engineering Corp
 Winner Industries

▶ ARCHES, LAWN

Anchor Post Fence Co
ARTCRAFT ORNAMENTAL IRON CO
CURTIS COMPANIES INC
 Stewart Iron Works

▶ ARCHES, METAL

Alabama Metal Lath Co
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
INLAND STEEL PRODUCTS CO
 Marino Lathing Supply Co
NATIONAL GYPSUM CO
PENN METAL CO INC
TRUSCON STEEL CO
U S GYPSUM
 Wheeling Corrugating Co

▶ ARCHES, WOOD, LAMINATED

Concord Woodworking Co Inc
 Laminators Inc
 McKown Brothers Co
RILCO LAMINATED PRODUCTS INC
 Super Structures Inc
TIMBER STRUCTURES INC
 Unit Structures Inc
 WEYERHAEUSER SALES CO

▶ AREAWALLS

Armo Steel Corp
 Brainerd Steel Co
CECO STEEL PRODUCTS CORP
 Decatur Iron & Steel Co
 Donley Brothers
 Harris Inc
 Holmann & Barnard Inc
 Kaptur (Joseph J) Sales Co
KEWANEE MFG CO
MAJESTIC CO
PENN METAL CO INC
ST PAUL CORRUGATING CO
 Sharon Steel Co
 Sioux Steel Co
UNITED STEEL FABRICATORS INC
 Wheeling Corrugating Co

▶ ASBESTOS-CEMENT BOARD

Aeme Asbestos Covering & Flooring Co
CAREY (PHILIP) MFG CO
CELOCYX CORP
HOMASOTE CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
RUBEROID CO

▶ ASBESTOS-CEMENT BOARD, ENCASED INSULATION

CAREY (PHILIP) MFG CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
 Standard Asbestos Mfg Co

AWLS
 Bridgeport Hardware Mfg Corp
 Crescent Tool Co
 Millers Falls Co
 Peck & Wilcox Co
SARGENT & CO
STANLEY TOOLS DIV STANLEY WORKS

▶ AWNINGS, STORE & RESIDENCE

AIR CONTROL PRODUCTS INC
FAWCO MFG DIV FALLS STAMPING & WELDING CO
 Hettrick (W E) & Sons Co
KAWNEER CO
 Orchard Brothers Inc
 Ron-Dei Inc
RUSSELL (F C) CO

▶ AWNINGS & CANOPIES, METAL

AIR CONTROL PRODUCTS INC
 Aluminum Awning Co Div Orchard Bros Inc
ALCRAFT ORNAMENTAL IRON CO
 Auburn Slunk Co
 Awnair Co
 B & B Engineering & Supply Co
 Childers Mfg Co
 Colgate Mfg Corp
 Cool Ray Metal Awning Co
 Coyle-McMorris Co Inc
 Edwards Mfg Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
 Kaptur (Joseph J) Sales Co
KAWNEER CO
 Kool Vent Aluminum Awning Distributors
 Maco Corp
 McKinley (Norman O) Co
 Metal Tile Products Inc
 National Ventilated Awning Co
 Newman Brothers Inc
 Orchard Brothers Inc
 Peerless Products
 Ron-Dei Inc
RUSSELL (F C) CO
 Smith (F P) Wire & Iron Works
 Thabet Mfg Co
 Troy Sunshade Co
 United Metal Products Inc
 Wolfe Products Inc
 Youngstown Industries Inc

▶ AXLES & DRIVERS, TRUCKS, SPECIAL

Cemo Industries Inc
 Eaton Mfg Co
 Truckstell Mfg Co

▶ BARROWS & BUGGIES

American Conveyor Co
 American Ladder Co
 American Steel Scraper & Wheelbarrow Co
 Boye Mfg Co
 Buch Manufacturing Co
 Case Crane & Kilbourne Jacobs Co
 Chattanooga Wheelbarrow Co
CONSTRUCTION MACHINERY CO
 Goldblatt Tool Co
 Jackson Mfg Co
 Kwik-Mix Co
 Lansing Co
MULLER MACHINERY CO INC
 Northwest Metal Products Inc
 Seymour Mfg Co
 Sterling Wheelbarrow Co
 Toledo Wheelbarrow Co
 United States Steel Products Co
 Western Wheel Barrow Mfg Co
 Whitman Mfg Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

▶ BARS, CROW & PINCH

American Swiss File & Tool Co
 Bucabel Tool Mfg Co
 Damascus Steel Products Corp
 Decatur Steel Products Co
GETTY (H S) & CO INC
 Hubbard & Co
 Proto Tool Co
STANLEY TOOLS DIV STANLEY WORKS
 True Temper Corp
 Valley Forging Co
 Woodings-Verona Tool Works

▶ BASE, METAL

BOSTWICK STEEL LATH CO
B & T METALS CO
 Iverette
 Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
 Kinkead Industries
 Knapp Bros Mfg Co
WACKLABURG DUNCAN CO
NATIONAL GYPSUM CO
PENN METAL CO INC
REYNOLDS METALS CO BUILDING PRODUCTS DIV
TRUSCON STEEL CO
U S GYPSUM CO
 Werner (B D) Co Inc
 Wheeling Corrugating Co
 Wollaefer Steel Corp

Manufacturers' Names and Addresses Start on Page D-61
 Manufacturers' Brand Name Identifications Start on Page D-52

▶ BASKETS, TRASH & WASTE

Boyle Mfg Co
Cyclone Fence Div American Steel & Wire Co
Kraus (Walter S) Co
LAWSON (F H) CO
MAJESTIC CO
Meyers (Fred L) Mfg Co
Smith (F P) Wire & Iron Works
Wheeling Corrugating Co

▶ BATCHERS, ADJUSTABLE MEASURING

BESSER MFG CO
Blaw-Knox Co
Bodinson Mfg Co
Butler Bin Co
Chain Belt Co
Concrete Transport Mixer Co
CONSTRUCTION MACHINERY SALES CO
Fleming Mfg Co
Heltzel Steel Form & Iron Co
Johnson (C S) Co
Martin Steel Products
Noble Co
Sprentex
Willard Concrete Machinery Co Ltd

▶ BATHROOM ACCESSORIES

Allen Steel Products Co
Approved Products Co
Autogy Co
Baclic (Simon) & Co
Bay Ridge Specialty Co Inc
Camp Mfg & Sales Co
Chrome-Text Inc
Columbia Metal Box Co
Columbian Plastic Products Inc
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
CRANE CO
Ekeo Products Co
Farley Mfg Co
GERITY-MICHIGAN CORP
HALL-MACK CO
Handy Things Mfg Co
Home Essentials Corp
House of Hospitality
Illinois Porcelain Enamel Co
KIMBALL GLASS CO
KITCHEN MAID CORP
Knape & Vogt Mfg Co
Kraus (Walter S) Co
LAWSON (F H) CO
Marchand (A) Inc
MARSH WALL PRODUCTS INC
MIAMI CABINET DIV CAREY (PHILIP) CO
MILWAUKEE FLUSH VALVE CO
MOSAIC TILE CO
MURRAY CORP OF AMERICA
NATIONAL STEEL CABINET CO
National Tile & Mfg Co
Northern Industries Inc
Parker (Charles) Co
Parker (S) Hardware Mfg Corp
Pioneer Co
PITTSBURGH PLATE GLASS CO
PRESTLE MFG CO
PROTECTUB INC
SAGER-BARROWS DIV YALE & TOWNE MFG CO
Selek (Walter E) & Co
Shower Door Co of America
Skiltman Hardware Co
Skyline Industries
Smith (E C) Mfg Corp
Summer (J L) Mfg Co
STANDARD BUILDING PRODUCTS CO
Stylon Corp
Superior Plastics Div Commonwealth Plastics Inc
Tiletone Co
TOLEDO DESK & FIXTURE CO
T & S Brass & Bronze Works Inc
TURNER & SEYMOUR MFG CO
TYLAC CO
U S Die Casting Co
U S Lock & Hardware Co
WESTWOOD MFG CO
Youngstown Mfg Co Inc

▶ BATHROOM CABINETS

AIR CONTROL PRODUCTS INC
American Enameled Products Co
ANGEL NOVELTY CO
Bennett Mfg Co
Camp Mfg & Sales Co
Cole Mfg Co
Coigate Mfg Corp
Colotyle Corp Tyle-Bord Inc Div
Columbian Metal Box Co
Conant Bros Co
COPCO STEEL & ENGINEERING CO
CURTIS COMPANIES INC
Dyke Brothers
Excel Metal Cabinet Co Inc
Farley Mfg Co
Farley & Loetscher Mfg Co
GERITY-MICHIGAN CORP
Gold Seal Mfg Co
Gosline (J R) Co
GROTE MFG CO
HALL-MACK CO
Hamilton Metal Products Co
Harris Inc
HESS CO
Holley (L E)
Houston Blow Pipe & Sheet Metal Works
Ideal Cabinet Corp Des Lauriers (Oblum) Mould Co
Kinza Pine Mills Co
Knape & Vogt Mfg Co
Kraus (Walter S) Co

LAWSON (F H) CO
Marchand (A) Inc
Marquart Millwork Co
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
Miro-Glo Cabinet Co
Morzan Co
Morton Mfg Co
National Metal-Art Mfg Co
National Metal Products Co
National Mirror Works
NATIONAL STEEL CABINET CO
Ohio Window Glass Co
ORNAS & LABARRE
Packard Formsteel Corp
Parker (Charles) Co
Pioneer Co
Porcelain Metals Corp
PROTECTUB INC
Roach & Musser Mfg Co
Rock Island Millwork Co
Royal Glass Works Corp
Sehonen (William) & Co
Selek (Walter E) & Co
SHEPLER MFG CO
Smith (E C) Mfg Corp
STANDARD BUILDING PRODUCTS CO
Standard Stamping & Perforating Co
Standard Steel Cabinet Co
Stylon Corp
TOLEDO DESK & FIXTURE CO
Toledo Plate & Window Glass Co
Truvel Metal Box Co
Universal Fabricators
Vimear Sales Co
Walters Mfg Co
Western Metalcraft Inc

▶ BATHROOM TOILET SEATS

Bemis Mfg Co
Bencke Corp
Brunswick-Balke-Collender Co Inc
Church (C F) Mfg Co
HIGGINS INC
Plumbers Woodwork Co
PROTECTUB INC
Swedish Crucible Steel Co
Vogue Mfg Co
Washington Woodcraft Co

▶ BEAD, CORNER METAL

Alabama Metal Lath Co
Bader Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
BOSTWICK STEEL LATH CO
B & T METALS CO
Bugher Mfg Co
CECO STEEL PRODUCTS CO
Continental Steel Corp
Donley Brothers
Edwards Mfg Co
Goldsmith Metal Lath Co
Hosking Paper & Supply
INLAND STEEL PRODUCTS CO
Kees (D) Mfg Co
Klauer Mfg Co
La Crosse Steel Roofing & Corrugating Co
Larson (Chas O) Co
MACKLANBURG-DUNCAN CO
Perrin Mfg Co
Mid States Steel & Wire Co
NATIONAL GYPSUM CO
PENN METAL CO INC
Penn Supply & Metal Corp
Piper (H K) Mfg Co
Sioux Steel Co
Soule Steel Co
STEELCRAFT MFG CO
TRUSCON STEEL CO SUB REPUBLIC STEEL CORP
U S GYPSUM CO
Wheeling Corrugating Co

▶ BEDS, WALL BUILT-IN

American Bed & Spring Co
Evansville Metal Bed Co
Harris-Hub Bed & Spring Co
Holmes Mfg Co
Holmes Products Co
MURPHY DOOR BED CO
Roll-A-Way Corp
Superior Sleeprite Corp

▶ BELLS & CHIMES, DOOR

AUTH ELECTRIC CO INC
Bevin Gros Mfg Co
Chimes Inc
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Deagan (J C) Inc
Edwards Co Inc
Faraday Electric Corp
Liberty Bell Mfg Co
Bell-4-Chime & Signal Co Inc
NATIONAL BRASS CO
NUTONE INC
Penn Hardware Co
Rhamstine (J Thomas)
RICHCRAFT CO
RITTENHOUSE CO INC
Sperti Faraday Inc
Starr Brothers Bell Co
Trine Mfg Corp

▶ BEVELS

Disston (Henry) & Sons Inc

LUFKIN RULE CO
Southington Hardware Mfg Co
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co

▶ BINDING, LINOLEUM & OIL CLOTH

ALLMETAL WEATHERSTRIP CO
B & T METALS CO
CENTRAL METAL STRIP CO
Decorite Inc
Dennin (W J) & Co
Kinkead Industries Inc
MACKLANBURG-DUNCAN CO
Metal Trims Inc
National Metal Products Co
Samsom Products Co
Superior Plastics Div Commonwealth Plastics Inc
S & W Moulding Co
Werner (R D) Co Inc
Youngstown Mfg Co

▶ BINS, HARDWARE

BERGER MFG DIV REPUBLIC STEEL CORP
Deluxe Metal Furniture Co
Equipito Div Aurora Equipment Co
Frick-Gallagher Mfg Co
Heller (W C) & Co
Hines (Edward) Lumber Co
Lyon Metal Products Co
Precision Equipment Co
Red Tiger Products Inc
Service Parts Systems
Stackbin Corp
Universal Steel Equipment Corp
Warren (J D) Mfg Co

▶ BINS, MATERIAL STORAGE, BULK

Arrow Tank Co Inc
Bader Corrugating Co
Blaw-Knox Co
Brainard Steel Co
Brower Mfg Co
Butler Bin Co
Caldwell (W E) Co
CONSTRUCTION MACHINERY CO
Deatur Iron & Steel Co
Demostor Mill Mfg Co
Eberhart Mfg Co
Erie Steel Const Co
Evans Products Co
Fleming Mfg Co
General Conveyor & Mfg Co
Gifford-Wood Co
Heltzel Steel Form & Iron Co
Houston Blow Pipe & Sheet Metal Works
Illinois Wire & Mfg Co
James Mfg Co
Jeffrey Mfg Co
Johnson (C S) Co
Kalamazoo Tank & Silo Co
Lyon Metal Products
Midwest Steel Products Co
MULLER MACHINERY CO INC
Neff & Fry Co
Noble Co
Red Tiger Products Inc
Richmond Engineering Co Inc
Sioux Steel Co
Sharon Steel Co
STEELCRAFT MFG CO
Super Structures Inc

▶ BINS, NAIL

Deluxe Metal Furniture Co
Crescent Tool Co
DURA-BILT TOOL CO
Greenlee Tool Co
Irwin Auger Bit Co
Millers Falls Co
Pee Stone & Wilcox Co
STANLEY TOOLS DIV STANLEY WORKS
Star Bit & Tool Co
Taylor-Gjede Co

▶ BITS, COUNTERSINK

Damacus Steel Products Corp
Greenlee Tool Co
Pugh (Job T) Inc
Star Bit & Tool Co
STANLEY TOOLS DIV STANLEY WORKS
Vaughan & Bushnell Mfg Co

▶ BITS, GIMLET

Deuse (E W) Co
Greenlee Tool Co Div Greenlee Bros & Co
Mphisto Tool Co Inc
Peck Stow & Wilcox Co

▶ BITS, SAW

Atkins (E C) Div Berg Warner Corp
Corley Mfg Co
Hoe (R) & Co Inc
SIMONDS SAW & STEEL CO
Southern Saw Works
Yates-American Machine Co

▶ BLACKBOARDS

Equipment Mfg Co Inc
New York Standard Blackboard Co Inc
Nu-Gloss Inc

▶ BLADES, SAW, HACK, ETC.

BRADFORD MACHINE TOOL CO
Clensson Bros Inc
FORSBERG MFG CO
HEINEMANN (F) SAW & MFG CO
International Twist Drill Corp
PTI Inc
Victor Saw Works Inc

▶ BLINDS, VENETIAN

Agee Venetian Blind Co
Arteraf Venetian Blind Mfg Co
Artes-Green Corp
Bills Venetian Blind Co
Bostwick-Gondell Co
Breneman (Chas W) Co
Chicago Venetian Blind Co
Clark & Hammer Inc
Clifton Mfg Co
Clopy Corp
Columbia Mills Inc
Consolidated Venetian Blind Co
Crawford-Austin Mfg Co
CURTIS COMPANIES
Eastern Machine Products Co
Eastern Venetian Blind Co
Ellis Venetian Blind Co
Flint Venetian Blind Mfg Co
Hettrick (W E) & Son Co
HOUGH SHADE CORP
HUNTER DOUGLAS CORP
Ideal Co
Kane Mfg Corp
Levolor Lorenzen Inc
Markin Venetian Blind Co
Mars Venetian Blinds
Maxwell Venetian Blind Co
Modern Venetian Blinds Inc
Murray Venetian Blind Corp
National Venetian Blind Co
Rock Island Millwork Co
ROLSCREEN CO
Sun Vertical Blind Co
Universal Venetian Blind Co
Vogue Venetian Blind Co
Volkers (Wm) & Co
Warren Venetian Blind Co
Yardley Industries
Youngstown Industries Inc

▶ BLOCKS, PLASTIC

Bioxolite Co of America Div Hachmeister Inc
Columbia Protokostite Co Inc

▶ BLOCKS, STRUCTURAL, INSULATING

OWENS-ILLINOIS GLASS CO KAYLO DIV

▶ BLOWERS, AIR

Air Controls Inc
American Foundry & Furnace Co
CHELSEA FAN & BLOWER CO
Dowagiac Steel Furnace Co
Hartzell Propeller Fan Co
HERMAN NELSON
HOMELITE CORP
Homer Furnace & Foundry Corp
International Heater Co
Lennox Furnace Co
Trane Co
Uno Ventilator Co
Utility Appliance Corp

▶ BLOWERS, FURNACE

AMERICAN BLOWER CORP DIV AMERICAN RADIATOR & STANDARD SANITARY CORP
Autovent Fan & Blower Co
Clarage Fan Co
Dayton Electric Mfg Co
Ilg Electric Ventilating Co
LAU BLOWER CO
MAJESTIC CO

▶ BLOWERS, INSULATION

Damacus Steel Products Corp
General Blower Co
Quality Materials Co
United States Rock Wool Co
Universal Insulating Co

▶ BLOWERS, PORTABLE, ELECTRIC

SKIL CORP

▶ BOARDS, DRAFTING

Hamilton Mfg Co
KEUFFEL & ESSER CO
WHITE (DAVID) CO

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

▶ BOARDS, GLASS CUTTING

Barrett (Wm L) Co
Fletcher Terry Co
Glaziers Tool Mfg Co
Heller (W C) & Co
LUFKIN BULK CO
Marcel Rock Mfg Co
RED DEVIL TOOLS
Reno
Sommer & Maya Glass Machinery Co
Warner Mfg Co
Warren (J D) Mfg Co

▶ BOATS

Aluma Craft Boat Co
Dillabaugh (C B) Boat Co
HIGGINS INC
Kalamazoo Canvas Boat Co
Southwest Mfg Co
Wintner Mfg Co

▶ BOILERS, STEAM & HOT WATER

ALDRICH CO DIV BREEZE CORP INC
AMERICAN RADIATOR & STANDARD SANITARY CORP
Brownell Co
BRYANT HEATER CO
BURNHAM CORP
Cleveland Steel Products Co Toridheat Div
CRANE CO
DELCO APPLIANCE DIV GENERAL MOTORS CORP
Dewey-Shepard Boiler Co
DUNKIRK RADIATOR CORP
Fitzgibbons Boiler Co
GENERAL ELECTRIC CO AIR CONDITIONING DEPT
General Fittings Co
Gilbert & Barker Mfg Co
Hedges-Walsh-Weldner Co
Hill Company
International Heater Co
Kenmore Boiler Corp Div American Radiator & Standard Sanitary Corp
KOHLER CO
Lokout Boiler & Mfg Co
LYCOMING SPENCER DIV AVCO MFG CORP
Monitor R & Sons Mfg Corp
National Radiator Co
NORGE HEAT DIV BORG-WANNER CORP
Oltus Co
Penn Boiler & Burner Mfg Corp
Petroleum Heat & Power Co
Quiet Automatic Oil Burner Corp
RICHMOND RADIATOR CO
Seattle Boiler Works
Smith (A G) Corp
Smith (H B) Co
Surface Combustion Corp
Thatcher Furnace Co
U S Radiator Corp
Ultra Radiator Corp
WATERFIRM BOILERS INC
Wayne Home Equipment Co
Weil McLean Co
YORK-SHIPLEY INC

▶ BOLTS, EXPANSION

Ackerman-Johnson Co
Arro Expansion Bolt Co
Chicago Expansion Bolt Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Holub Industries Inc
PAINE CO
Parker (S) Hdwe Mfg Corp
Rawlplug Co Inc Industrial Div
Star Expansion Products Co Inc
Stonghold Screw Products Inc
U S Expansion Bolt Co

▶ BOLTS, STRUCTURAL

Ackerman-Johnson Co
Arro Expansion Bolt Co
Chicago Expansion Bolt Co
Dewator Iron & Steel Co
Diamond Expansion Bolt Co
Engman Mfg Co
Holub Industries Inc
Molly Corp
MOORE (GOODLOE E) CO
PAINE COMPANY
Potts (J D) Mfg Co
Rawlplug Co Inc
St. Louis Screw & Bolt Co
Star Expansion Bolt Co
Sterling Bolt Co
Stonghold Screw Products Inc
U S Expansion Bolt Co
Williams Form Engineering Corp

▶ BOLTS, TOGGLE

Ackerman-Johnson Co
Arro Expansion Bolt Co
Carpenter & Patterson Inc
Chicago Expansion Bolt Co
PAINE COMPANY
Star Expansion Products Co Inc
United Screw & Bolt Corp

▶ BOLTS, "U"

Atlas Bolt & Screw Co
Buffalo Bolt Co
REPUBLIC STEEL CORP
Seymour Mfg Co Inc
Standard Turnbuckle Co

▶ BOOKS, BUILDING

American Technical Society
Audel (Theodore) & Co
BOOK SERVICE DEPT AMERICAN BUILDER
SIMMONS-BOARDMAN PUB CORP
McGraw Hill Book Co
MEREDITH PUBLISHING CORP
METALBESTOS DIV WALLACE (WILLIAM) CO
WILEY (JOHN) & SONS INC

▶ BOOKS, ESTIMATING

BOOK SERVICE DEPT AMERICAN BUILDER
SIMMONS-BOARDMAN PUB CORP
Tamblyn System

▶ BOOKS, HOUSE DESIGNS, PLANS

BOOK SERVICE DEPT AMERICAN BUILDER
SIMMONS-BOARDMAN PUB CORP
REINHOLD PUBLISHING CORP
WEYERHAEUSER SALES CO

▶ BOOKS, LANDSCAPING

SCOTT (B M) & SONS CO

▶ BOOKS, PRICE

Dealers Price Book
National Plan Service

▶ BRACES, BIT & DRILL, HAND

Economy Mfg Co
Ewale Equipment Mfg Co
FORSBERG MFG CO
Millers Falls Co
Peck Stow & Wilcox Co
Smith (Seymour) & Son
STANLEY TOOLS DIV STANLEY WORKS

▶ BRACKETS, CURTAIN

Alto Mfg Co
Bay States Stamping Co
Gould-Mercereau Co Inc

▶ BRACKETS, HAND RAIL

CORBIN (P & F) DIV AMERICAN HARDWARE CORP
FRANTZ MFG CO
Ives (H B) Co
LOCKWOOD HARDWARE MFG CO
Penn Hardware Co
SARGENT & CO
Skillman Hardware Co

▶ BRACKETS, ROOF

American Ladder Co
ARTCRAFT ORNAMENTAL IRON CO
BELSON MFG CO
CURTIS COMPANIES INC
Flint (A W) Co
Holm's Mfg Co of Ohio
Marvel Equipment Co
Parker (S) Hdwe Mfg Corp
Patton (N E) Co
Rugg Mfg Co
STANLEY WORKS
Tilley (John S) Ladders Co Inc
WAGNER MFG CO

▶ BRACKETS, SAWHORSE

Busch (A G) & Co Inc
Crane Packing Co
DALTON MFG CO
GRAND HAYEN STAMPED PRODUCTS CO
Larson (Charles D) Co
M & M Wire Clamp Co
Panellit Displays Inc
Thomas Products Co
Union Mfg & Gauge Co
WAGNER MFG CO
Wilson-Albrecht Co

▶ BRACKETS, SHELF

AIR CONTROL PRODUCTS INC
Autocore Co
Busch (A G) & Co Inc
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
FAWSCO MFG DIV FALLS STAMPING & WELDING CO
FRANTZ MFG CO
Garden City Plating & Mfg Co
Gensco Tool Div General Warehouse Co Inc
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Heller (W C) Co
Knappe & Vogt Mfg Co
Larson (Chas O) Co
Loeke Mfg Co
MACLANBURG-DUNCAN CO
McKinney Mfg Co
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
NATIONAL BRASS CO
NATIONAL LOCK CO

NATIONAL MFG CO

Parker (S) Hdwe Mfg Corp
Reflector Hardware Corp
SARGENT & CO
Slaymaker Lock Co
STANLEY WORKS
Wilmae Metal Products

▶ BRACKETS, SINK

American Foundry & Mfg Co
Griffin Mfg Co
Modern Iron Works
Penn Hardware Co
Seovill Mfg Co
STANLEY WORKS

▶ BRACKETS, STUD

Ewale Equipment Mfg Co
WAGNER MFG CO

▶ BRACKETS, WALL

BUTLER (B B) MFG CO INC
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Flint (A W) Co
Heller (W C) & Co
Ives (H B) Co
Marvel Equipment Co
Parker (S) Hdwe Mfg Corp
Pass & Seymour Inc
Reno
Standard Bronze Co
Superior Plastics Div Commonwealth Plastics Inc
Valley Metal Products
Warren (J D) Mfg Co

▶ BRASS & COPPER, SHAPES

American Brass Co
Anacosta Sales Co
Bridgeport Brass Co
CHASE BRASS & COPPER CO
Hussey (C G) Co
Michigan Copper & Brass Co
Revere Copper & Brass Co
Seovill Mfg Co
Sherman (H B) Mfg Co
Western Cartridge Co Div Olin Industries

▶ BRICK, ACID-PROOF

Aeme Brick Co
Alliance Clay Products Co
Sauterstein Cements Co
Streator Brick Co
Summitville Face Brick Co
Texas Brick Co
U S Stoneware Co
Washington Brick & Lime Co

▶ BRICK, COMMON

Ablene Brick Co
Aeme Brick Co
Aeme Shale Brick Co
Ada Brick Co
Adel Clay Products Co
Alabama Clay Products Co
Alliance Clay Products Co
Alton Brick Co
Alwine Brick Co
Baltimore Brick Co
Beacon Brick Co
Binghamton Brick Co Inc
Black Hills Clay Products Co
Bowerston Shale Co
Bridgewater Brick Co
Brish Brick Co
Builders Brick Co
Bush (W G) & Co
Carey Brick Co
Chehalis Brick & Tile Co
Church Brick Co
Claycraft Co
Columbia Brick Works
Dennings Point Brick Works
Denver Sewer Pipe & Clay Co
Dickinson Clay Products Co
Drury Brick Co
Elgin-Butler Brick Co
El Paso Brick Co
Florida Georgia Brick & Tile Co
Fraser Brick Co
Frederick Brick Works
Gaffney Brick Co
General Clay Products Co
General Shale Products Corp
Glen-Gery Brick Co
Goodrich (W S) Inc
Great Falls Brick Co
Gulznard Brick Works
Hope Brick Works
Humboldt Brick & Tile Co
Hydraulic Press Brick Co
Illinois Brick Co
Interstate Brick Co
Jonesboro Brick Co
Jova Brick Works
Kingsland Clay Products Co
Las Vegas Brick Co
Lowell Clay Products Co
Mason City Brick & Tile Co
Metropolitan Paving Brick Co
Miami Brick Co
National Fireproofing Co
Red River Valley Brick Corp
Reno Press Brick Co

Richards Brick Co
Richland Shale Products Co
Sacramento Brick Co
Sealton Products Inc
Sheffield Brick & Tile Co
Sheridan Press Brick & Tile Co
Simons Brick Co
Southern Brick & Tile Co
Spring Garden Brick Co
Standard Brick & Tile Corp
Summit Pressed Brick & Tile Co
Texas Brick Co
Vulcan Tool Mfg Co
Washington Brick & Lime Co
Western Brick Co
West Virginia Brick Co
Yankee Hill Brick Mfg Co

▶ BRICK, ENAMELED

Aeme Brick Co
Arketex Ceramic Corp
Claycraft Co
Hanley Co
Hydraulic Press Brick Co
National Fireproofing Co
Stark Brick Co
Washington Brick & Lime Co

▶ BRICK, FACE

Aeme Brick Co
Ada Brick Co
Adel Clay Products Co
Alabama Clay Products Co
Alton Brick Co
Apjar Van Stolk Trading Corp
Ashe Brick Co
Baltimore Brick Co
Binghamton Brick Co Inc
Black Hills Clay Products Co
Bowerston Shale Co
Brooks Brick Co
Builders Brick Co
Bush (W G) & Co
Chehalis Brick & Tile Co
Chicago Fire Brick Co
Claycraft Co
Columbia Clay Products Co
Columbia Brick Works
Concord Brick Co
Claycraft Brick Co
Densmore Brick Co
Denver Sewer Pipe & Clay Co
Donnelly Brick Co
Drury Brick Co
Elgin-Butler Brick Co
El Paso Brick Co
Evans Brick Co
Fairfield Brick Co
Fayette Brick & Tile Co
Florida Georgia Brick & Tile Co
Fraser Brick Co
Frederick Brick Works
Gaffney Brick Co
Gagnon Clay Products Co
General Shale Products Corp
Gladhill Bros Mfg Co
Glen-Gery Brick Co
Great Falls Brick Co
Gulznard Brick Works
Hancock Brick & Tile Co
Hanley Co
Hattiesburg Brick Works
Hocking Valley Brick Co
Hope Brick Works
Humboldt Brick & Tile Co
Hydraulic Press Brick Co
International Brick Co
Interstate Brick Co
Isenhour (G W) & Sons
Jenkins Brick Co
Kendrick Brick & Tile Co
Kingsland Clay Products Co
Laredo Brick Co
Las Vegas Brick Co
Lawiston Brick & Tile Co
Lowell Clay Products Co
Metropolitan Paving Brick Co
New England Brick Co
Ogden Pressed Brick & Tile Co
Old Virginia Brick Co
Purinton Paving Brick Co
Rehfield Brick & Tile Co
Roanoke Webster Brick Co Inc
Sealton Products Inc
Sheffield Brick & Tile Co
Sheridan Press Brick & Tile Co
Southern Brick Co
Southern Brick & Tile Co
Standard Brick & Tile Corp
Stone Creek Brick Co
Streator Brick Co
Summit Pressed Brick & Tile Co
Summitville Face Brick Co
Texas Brick Co
Twin City Brick Co
Verdigris Valley Vitrefied Brick & Tile Co
Washington Brick & Lime Co
West Virginia Brick Co
Western Brick Co
Western Brick & Supply Co
Williams Clay Products Co
Yankee Hill Brick Mfg Co

▶ BRICK, GLAZED

Aeme Brick Co
Arketex Ceramic Corp
Binghamton Brick Co Inc
Cambria Clay Products Co
Claycraft Co
Denver Sewer Pipe & Clay Co
Elgin-Butler Brick Co
Hanley Co
Hydraulic Press Brick Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Metropolitan Paving Brick Co
National Fireproofing Co
Stark Brick Co
Walsh Refractories Corp
Washington Brick & Limes Co

► BRICK, NORMAN & ROMAN

Acme Brick Co
Adel Clay Products Co
Beldon Brick Co
Binghamton Brick Co
Builders Brick Co
Chatham Brick Co
Cheshire Brick & Tile Co
Claycraft Co
Columbia Brick Works
Consolidated Brick Co
Hanley Co
Isenhour (G W) & Sons
Kendrick Brick & Tile Co
Kingsland Clay Products Co
Kraftite Co
Malvern Clay Co
Metropolitan Brick Paving Co
Midland Brick Co
National Fireproofing Co
Sheridan Press Brick & Tile Co
Standard Clay Mfg Co
Washington Brick & Lime Co
Watsonville Brick Co
Western Clay Mfg Co
Whitacre-Greer Fireproofing Co
Yankee Hill Brick Mfg Co

► BRICK, PAVING

Acme Brick Co
Alliance Clay Products Co
Hooking Valley Brick Co
Metropolitan Brick Paving Co
Summitville Face Brick Co
Washington Brick & Lime Co
Western Brick & Supply Co

► BRICK, VENEER, SYNTHETIC

AMERICAN CEMENT PRODUCTS

► BRIDGING, STEEL

Bethlehem Steel Co
Cleveland Steel Specialty Co
Davis & Shield Co
Donley Bros Co
Dravo Corp
Flash Bridge Co
Glover Mfg & Sales Co
GREAT LAKES STEEL CORP STRAN-STEEL
DIV
International Steel Co
JUNIOR PRO PRODUCTS CO
Lansboro Mfg Co Inc
Met-Aro Specialties Co Inc
Pioneer Co
REPUBLIC STEEL CORP
Sheffield Steel Corp
Soule Steel Co
Sta-Tite Inc
Union Metal Mfg Co
Weatherbest Service Inc
Welch Co

► BRUSHES, INDUSTRIAL

Devoe & Reynolds Inc Brush Div
Goldblatt Tool Co
Illinois Duster & Brush Co
Milwaukee Brush Mfg Co
National Brush Co
Osborn Mfg Co
PITTSBURGH PLATE GLASS CO
Rubbermat Co

► BRUSHES, PAINTERS'

American Brush Mfg Co
Baker Brush Co
Berry Brothers Inc
Devoe & Reynolds Inc
DuPont (E I) de Nemours & Co
Felton Sibley & Co Inc
Glidden Co
Markwell Mfg Co Inc
Newark Brush Co
Osborn Mfg Co
Parker (Ira) & Sons Co
PITTSBURGH PLATE GLASS CO BRUSH DIV
Plasti-Kote Co
Pollock Brush Co
Purdy Brush Co
Pustee (J C) & Sons
Rubbermat Co
SHERWIN-WILLIAMS CO
Star Brush Mfg Co
United Brush Mfrs
Witting-Adams Co
Wooster Brush Co

► BRUSHES, PAPERHANGERS'

Baker Brush Co
Devoe & Reynolds Inc
Maendler Brush Mfg Co Inc
Rubbermat Co
Wooster Brush Co

► BRUSHES, ROOFING

Abesto Mfg Corp
Bentzinger Bros
Chicago Brush Co
Devoe & Reynolds Inc
Empire Brush Works
Hanlon & Goodman Co
Milwaukee Brush Mfg Co
PITTSBURGH PLATE GLASS CO BRUSH
DIV
Purdy Brush Co

► BRUSHES, WINDOW

American Brush Mfg Co
Chicago Brush Co
Empire Brush Works Inc
Michigan Brush Mfg Co
PITTSBURGH PLATE GLASS CO BRUSH DIV

► BUCKETS, CLAMSHELL

Blaw-Knox Div Blaw-Knox Co
Hais (George) Mfg Co Inc, Div Pettibone
Mulliken Corp
HARNISCHFEGGER CORP
Jeffrey Mfg Co
Johnson (C S) Co
Link-Belt Co
Orton Crane & Shovel Co
Pettibone Mulliken Corp
Silent Hoist & Crane Co

► BUCKETS, CONCRETE

Blaw-Knox Div Blaw-Knox Co
Hais (George) Mfg Co Inc Div Pettibone
Mulliken Corp
Johnson (C S) Co
MULLER MACHINERY CO INC
Owen Bucket Co
Wheeling Corrugating Co

► BUILDINGS, METAL

American Bridge Co
Armo Drainage & Metal Products Inc
Blaw-Knox Div Blaw-Knox Co
Butler Mfg Co
Edwards Mfg Co
General Implement Corp
International Steel Co
Luria Engineering Corp
Macomber Inc
MESKER (GEORGE L) STEEL CORP
New Hand Metals Co
Pioneer Co
Southern States Iron Roofing Co
STEELCRAFT MFG CO
Stran-Steel Div Great Lakes Steel Corp
TRUSCON STEEL CO
UNITED STEEL FABRICATORS INC

► BULLDOZERS

ALLIS-CHALMERS MFG CO TRACTOR DIV
American Tractor Corporation
ARPS CORP
BUCAUS-ERIE CO
Caterpillar Tractor Co
Hough (Frank G) Co
LeTourneau (R G) Inc
Lull Mfg Co
Mixmobile Manufacturers
OLIVER CORP CLETRAC DIV
Trackson Co

► BURNERS, GAS

ALDRICH CO DIV BREEZE CORP INC
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
Anchor Div Stratton & Terstege Co Inc
Armstrong Furnace Co
Barber Gas Burner Co
Bard Mfg Co
BRYANT HEATER DIV AFFILIATED GAS
EQUIPMENT INC
Century Engineering Corp
CHATTANOOGA IMPLEMENT & MFG CO
Cleveland Steel Products Co Toridbest Div
Conoco Engineering Works Div Conkey (H D)
Co
Coronair Heating Corp
CRANE CO
DELCO APPLIANCE DIV GENERAL MOTORS
CORP
General Automatic Products Corp
Hauke Mfg Co
Heil Company
Henry Furnace Co
Holland Furnace Co
Ingersoll Products Div Borg-Warner Corp
International Oil Burner Co
Iron Fireman Co
Jackson & Church
Ko-Z-Air Inc
Lennox Furnace Co
Little (H C) Burner Co
MAJESTIC CO
MUELLER (L J) FURNACE CO
National Airoil Burner Co
N-tional Radiator Co
NORGE HEAT DIV BORG-WARNER CORP
NORMAN PRODUCTS CO
Oiltex Co
Penn Boiler & Burner Mfg Co
Queen Stove Works Inc
REZTOR MFG CO
Ryholt Heater Co
Simstex Oil Heating Corp
Surface Combustion Corp
TENCO INC
Thecher Furnace Co
Wayne Home Equipment Co
Will-Burt Co
WILLIAMSON HEATER CO
Zurn (J A) Mfg Co

► BURNERS, OIL

Aeroll Products Co Inc

AIRTEMP DIV CHRYSLER CORP
ALDRICH CO DIV BREEZE CORP INC
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
Anchor Div Stratton & Terstege Co Inc
Armstrong Furnace Co
Bard Mfg Co
Chalmers Oil Burner Co
CHRYSLER CORP OF AIRTEMP DIV
Cleveland Steel Products Co
Combustioner Div Steel Products Engineering
Co
Conoco Engineering Works Div Conkey (H D)
Co
Coronair Heating Corp
CRANE CO
DELCO APPLIANCE DIV GENERAL MOTORS
SALES CORP
Duo-Therm Div Motor Wheel Corp
Fairbanks Morse & Co
Fluid Heat Div Anchor Post Products Inc
Franklin Oil Heating Inc
General Automatic Products Corp
GENERAL ELECTRIC CO AIR CONDITION-
ING DEPT
General Utilities Corp
Gerotor May Corp
Gilbert & Barker Mfg Co
Harvey-Whipple Inc
Hauke Mfg Co
Heil Co
Henry Furnace Co
International Oil Burner Co
Iron Fireman Mfg Co
Jackson & Church
JOHNSON (S T) CO
Kol-Master Corp
Ko-Z-Air Inc
Kresky Mfg Co
Lennox Furnace Co
Little (H C) Burner Co
MAJESTIC CO
May Oil Burner Corp
MUELLER (L J) FURNACE CO
National Airoil Burner Co
NORGE HEAT DIV BORG-WARNER CORP
Oiltex Co
Paragon Utilities Corp
Penn Boiler & Burner Mfg Corp
Perfection Stove Co
Persiro Mfg Corp
Petroleum Heat & Power Co
Quaker Mfg Co
Quiet Automatic Burner Corp
Ray Oil Burner Co
Ryholt Heater Co
Silent Automatic Burner Co
Silent Glow Oil Burner Co
Silent Sioux Oil Burner Corp
Simstex Oil Heating Corp
TIMKEN SILENT AUTOMATIC DIV TIM-
KEN-DETROIT AXLE CO
Thecher Furnace Co
U S Machine Corp
Viking Mfg Corp
Wayne Home Equipment Co
Will-Burt Co
Williams Oil-O-Matte Div Eureka-Williams Co
WILLIAMSON HEATER CO
YORK-SHIPLEY INC

► BUSINESS SYSTEMS & FORMS

Acme Visible Records Inc
Ajax Time Stamp Co
Burroughs Adding Machine Co
Calculagraph Co
Delbridge Calculating Systems Inc
Dick (A B) Co
Diebold Inc
Egry Register Co
Felt & Tarrant Mfg Co
Felton Sibley & Co Inc
Friden Calculating Machine Co Inc
Hamilton Autographic Register Co
International Business Machines Corp
Marchant Calculating Machines Co
McKeskey Register Co
Mellikee Systems Inc
Monroe Calculating Machine Co Inc
Moore Business Forms Inc
Mosler Safe Co
National Cash Register Co
REMINGTON RAND INC
Rorvall (Iran) Co
Standard Register Co
Tallman Robbins & Co
Todd Co Inc
Uarco Inc
Victor Adding Machine Co
Visirecord Inc

► CABINETS, HOUSEHOLD

APR CONTROL PRODUCTS INC
AMERICAN CENTRAL DIV AVCO MFG CO
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
BERGER MFG CO DIV REPUBLIC STEEL
CARR ADAMS & COLLIER CO
Cole Mfg Co
Folgate Mfg Corp
CURTIS COMPANIES INC
Excel Metal Cabinet Co Inc
Farley & Loetscher Mfg Co
GENERAL ELECTRIC CO APPLIANCE &
MERCHANDISE DEPT
General Panel Corp
Gold Seal Mfg Co
GREGG & SON

GRITE MFG CO INC
Harrison Steel Cabinet Co
HUBEY BROTHERS INC
Ideal Co
IKL Furniture Co
Kenarole
KITCHEN-MAID CORP
Kraus (Walter S) Co
LONG-BELL LUMBER CO
Lyon Metal Products Inc
Marquart Millwork Co
Midwest Mfg Co
Morgan Co
MULLINS MFG CORP
Mutschler Bros
Nasco Wood Products Inc
Palley Mfg Co
Paragon Utilities Corp
Royalmaid Kitchen Corp
Seneca Lumber & Millwork Co
Shirley Corp
Spokane Sash & Door Co
TRACY MFG CO DIV EDGEWATER STEEL
CO
WASHINGTON STEEL PRODUCTS INC
Whitehead Metal Prods Co Inc

► CABLES, INSULATED

American Conduit Co
AMERICAN STEEL & WIRE CO
Anacosta Wire & Cable Co
Boston Insulated Wire & Cable Co
CHASE BRASS & COPPER CO
GENERAL ELECTRIC CO CONSTRUCTION
MATERIALS DEPT
Okonite Co
TENNESSEE COAL IRON & RAILROAD CO

► CABLES, CRANE

American Cable Div American Chain & Cable
Co
AMERICAN STEEL & WIRE CO
Broderick & Bascom Rope Co
Fischer & Hayes Rope & Steel Co
MacWight Co
Roebling's (John A) Sons Co

► CALCIMINE

Chicago Bronze & Color Works
Devoe & Reynolds Inc
Fox (M Ewing) Co Inc
Glidden Co
Lucas (John) & Co Inc
Moore (Benjamin) & Co
Carbola Chemical Co
Muralto Co Inc
NATIONAL GYPSUM CO
PITTSBURGH PLATE GLASS CO
Rational Co
Tamm Industries Inc
U S Calcimine Co
Wadsworth-Howland & Co
Wesco Waterpumps Inc

► CALCIUM CHLORIDE

Allen (W D) Mfg Co
American Cyanamid Co
Camp Chemical Co
Columbia Chemical Division Pittsburgh Plate
Glass Co
Dow Chemical Co
DuPont (E I) de Nemours & Co
Gordon (George C) Chemical Co
Horn (A C) Co Inc
Pennsylvania Salt Mfg Co
PITTSBURGH PLATE GLASS CO
SOLVAY PROCESS DIV ALLIED CHEMICAL
& DYE CORP
Tamm Industries Inc
Vila-Var Co
Wyandotte Chemicals Corp

► CANVAS, CANVAS PROD- UCTS

American Tent & Awning Co
Astrup Co
Bemis Bros Bag Co
Canvas Products Co
Canvas Specialty Co
Clifton Mfg Co
DANIELS (C R) INC
Fulton Bag & Cotton Mills
Johnson (J W) Co
New York Drop Cloth Mfg Co Inc
Standard Awning Co
Stanley (Wm W) Co Inc
Troy Sunshade Co
Tucker Duck & Rubber Co
Werner Canvas Products Co

► CARPETING

Bigelow-Sanford Carpet Co Inc
Hood Rubber Co Div Goodrich (B F) & Co
Mohawk Carpet Mills Inc

► CAR PUSHERS

Advance Car Mover Co
Clyde Iron Works Inc
Franklin Equipment Co
Hyster Co
Jeffrey Mfg Co
KEWANEE MFG CO
Link-Belt Co
LIVIER CORP CLETRAC DIV
Beno
Silent Hoist & Crane Co
Stephens-Adamson Mfg Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Tallman Mfg Co
Whitting Corp

► CARRIERS, HAND, BRICK, TILE & BLOCK

Adams Co
Block-Lift Co
Builders Material Inc
Dunley Brothers
Fuller Mfg Co
Goldblatt Tool Co
James Mfg Co
KEWANEE MFG CO
Swett (A L) Iron Works
Vulcan Tool Mfg Co

► CARTS, GARDEN

INLAND STEEL PRODUCTS CO
Masters Planter Co

► CARTS, MATERIAL HANDLING

Bassett Industries
CONSTRUCTION MACHINERY SALES CO
INLAND STEEL PRODUCTS CO
Lansing Co
Nutting Truck & Caster Co Inc
Service Caster & Truck Corp
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► CASING, METAL

AETNA STEEL PRODUCTS CORP
Alabama Metal Lath Co
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CO
Croft Steel Products Co
FENESTRA BUILDING PRODUCTS
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
STEELCRAFT MFG CO
PENN METAL CO INC
TRUSCON STEEL CO
U S GYPSUM CO
Wollinger Steel Corp Div Aetna Steel Prods Corp

► CAULKING COMPOUNDS

Abesto Mfg Corp
AMERICAN ASPHALT ROOF CORP
Anti-Hydro Waterproofing Co
Armstrong Co
Balts (R N) & Co
Barland Weatherstrip Material Co
Biddle Co
Briggs-Maroney Co Inc
CALBAR PAINT & VARNISH CO
CAREY (PHILIP) MFG CO
CENTRAL METAL STRIP CO
Censit Waterproofing Corp
Chemical Supply Co
Christy Co Inc
COLUMBIA CHEMICAL DIV PITTSBURGH PLATE GLASS CO
Continental Asbestos & Refining Co
Dud & Lad Co
Dennis (W J) & Co
Devos & Reynolds Inc
Donley Brothers
Eagle-Flecher Co
Elliott Paint & Varnish Co
Felton Sibley & Co Inc
FLINTKOTE CO
Fort Pitt Chem Co
Gibson-Homans Co
Glidden Co
Goldblatt Tool Co
Gumpert Laboratories
Harris Inc
Harrap Chemical Co
Horn (A C) Co Inc
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Landon Putty Works
Lasting Products Co
WACKLABURG-DUNCAN CO
Mar-Kay Mfg Co
MARSH WALL PRODUCTS INC
Minnesota Mining & Mfg Co
Minwax Co Inc
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E) CO
NORTELL (J W) CO
Parker (Ira) & Sons
Pecora Paint Co Inc
PITTSBURGH PLATE GLASS CO
Plastic Products Co
Prestite Engineering Co
Quilley Co Inc
Ranette Mfg Co
Robbins Mfg Co
Schalk Chemical Co
Seaboard Plastics Corp
Seal-Rite Caulking Co Inc
Smooth-On Mfg Co
Sonneborn (L) & Sons Inc
Spray-O-Bond Co
STANDARD DRY WALL PRODUCTS INC
Steelco Mfg Co
STERLING PAINT & VARNISH CO
Sullivan Co
Tammis Industries Inc
Tremco Mfg Co
Truscon Laboratories Div Devos & Reynolds Co Inc
Vital Mfg Co
Wallace Mfg Co
Webster (W F) Cement Co
X-Pando Corp
ZEGERS INC

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► CAULKING, PRE-MOLDED

FABRICATED PRODUCTS CO INC
Prestite Engineering Co

► CEILINGS, METAL

ARMSTRONG CORK CO
Compo-Miracle Products Co
Continental Steel Corp
Edwards Mfg Co
FENESTRA BUILDING PRODUCTS
Hauserman (E F) Co
International Steel Co
Klauer Mfg Co
Mahon (R C) Co
REYNOLDS METALS CO BUILDING PRODUCTS
Whetung Corrugating Co

► CEILINGS, SUSPENDED

Lok-Products Co
Banyment Products Inc Nailok Div

► CEMENT, ACIDPROOF

American Fluoresit Co
JOHNS-MANVILLE CORP
Mexico Refractories Co
Nelson Products Corp
PECORA PAINT CO INC
Robinson Clay Product Co
Tuffak Inc
UNIVERSAL ATLAS CEMENT CO

► CEMENT, ASBESTOS

Abesto Mfg Corp
Acme Asbestos Covering & Flooring Co
AMERICAN ASPHALT ROOF CO
Asbestos Asphalt & Insulation Inc
Borden Co Chemical Div
CAREY (PHILIP) MFG CO
Clinton Metallic Paint Co
Curtis Mfg & Asbestos Co
FLINTKOTE CO
Horn (A C) Co Inc
INLAND STEEL PRODUCTS CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Lehon Co
MOORE (GOODLOE E) CO
Pabco Products Inc
PECORA PAINT CO INC
Piliburo Johnston Firebrick Co
RUBEROID CO
Rutland Fire Clay Co
Seaboard Asbestos Mfg Co
STANDARD ASBESTOS MFG CO
TEXAS CO

► CEMENT, CANVAS

Borden Co Chemical Div
Christy Co Inc
Mineral Pigment Corp
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E) CO

► CEMENT, HOUSEHOLD REPAIR

Borden Co Chemical Div
Boyle-Midway Inc
CERTAIN-TEED PRODUCTS CORP
Consumers Glue Co
DuPont (E I) de Nemours & Co
Hore & French Inc
Lake Chemical Co
LePage's Inc
MIRACLE ADHESIVES CORP
Paisley Products Inc
Reardon Co
Schalk Chemical Co
So-Lo Works Inc
Testor Chemical Co

► CEMENT, KEENE'S

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
ONIO HYDRATE & SUPPLY CO
U S GYPSUM CO
Woodville Lime Co

► CEMENT, MASONRY

Alpha Portland Cement Co
Calaveras Cement Co
Carney Co Inc
GENERAL PORTLAND CEMENT CO
Hawkeye Portland Cement Co
Lehigh Portland Cement Co
LOWE STAR CEMENT CORP
LOUISVILLE CEMENT CO
MARQUETTE CEMENT MFG CO
MEDUSA PORTLAND CEMENT CO
Missouri Portland Cement Co
National Mortar and Supply Co
North American Cement Corp
Peerless Cement Corp
PITTSBURGH PLATE GLASS CO
Riverton Lime & Stone Co Inc
Sakrete Inc
Southern Cement Co
Standard Lime & Stone Co

TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
U S GYPSUM CO
UNIVERSAL ATLAS CEMENT CO
Wolverine Portland Cement Co
Woodville Lime Co
X-Pando Corp

► CEMENT, NON-STAINING

Borden Co Chemical Div
LOUISVILLE CEMENT CO
MEDUSA PORTLAND CEMENT CO
PITTSBURGH PLATE GLASS CO
TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO

► CEMENT, PORTLAND

Alpha Portland Cement Co
Ash Grove Lime Portland Cement Co
Blue Diamond Corp
Calaveras Cement Co
California Portland Cement Co
Consolidated Cement Corp
Cumberland Portland Cement Co
Dewey Portland Cement Co
Florida Portland Cement Div General Portland Cement Co
GENERAL PORTLAND CEMENT CO
Hawkeye Portland Cement Co
Heritage Portland Cement Co
Ideal Cement Co Colorado Portland Div
KAISER ALUMINUM & CHEMICAL SALES INC
Kosmos Portland Cement Co
Lehigh Portland Cement Co
LOWE STAR CEMENT CORP
LOUISVILLE CEMENT CO
MARQUETTE CEMENT MFG CO
MEDUSA PORTLAND CEMENT CO
Missouri Portland Cement Co
North American Cement Corp
Pacific Portland Cement Co
Peerless Cement Corp
Pennsylvania-Dixie Cement Corp
PITTSBURGH PLATE GLASS CO
Southwestern Portland Cement Co
Standard Lime & Stone Co
TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO
Wolverine Portland Cement Co

► CEMENT, PORTLAND, AIR-ENTRAINING

Alpha Portland Cement Co
GENERAL PORTLAND CEMENT CO
LOWE STAR CEMENT CORP
LOUISVILLE CEMENT CO
MARQUETTE CEMENT MFG CO
MEDUSA PORTLAND CEMENT CO
North American Cement Corp
TRINITY PORTLAND CEMENT CO DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO

► CEMENT, PORTLAND, GRAY, WATERPROOF

Calaveras Cement Co
LOUISVILLE CEMENT CO
MEDUSA PORTLAND CEMENT CO
PITTSBURGH PLATE GLASS CO
Standard Lime & Stone Co
Wolverine Portland Cement Co

► CEMENT, PORTLAND, HIGH EARLY STRENGTH

Alpha Portland Cement Co
Calaveras Cement Co
Lehigh Portland Cement Co
LOWE STAR CEMENT CORP
MARQUETTE CEMENT MFG CO
MEDUSA PORTLAND CEMENT CO
Missouri Portland Cement Co
North American Cement Corp
Pacific Portland Cement Co
Peerless Cement Corp
Pennsylvania-Dixie Cement Corp
PITTSBURGH PLATE GLASS CO
Spokane Portland Cement Co
Standard Lime & Stone Co
TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO
Wolverine Portland Cement Co

► CEMENT, PORTLAND, WHITE

Calaveras Cement Co
GENERAL PORTLAND CEMENT CO
MEDUSA PORTLAND CEMENT CO
TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO

► CEMENT, PORTLAND, WHITE WATERPROOFED

MEDUSA PORTLAND CEMENT CO
PITTSBURGH PLATE GLASS CO

TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
UNIVERSAL ATLAS CEMENT CO

► CEMENT, ROOFING

Abesto Mfg Corp
Acme Asbestos Covering & Flooring Co
AMERICAN ASPHALT ROOF CORP
Armstrong Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELOTEX CORP
Censit Waterproofing Corp
CERTAIN-TEED PRODUCTS CORP
Clinton Metallic Paint Co
Coopers Creek Chemical Corp
Curtis Mfg & Asbestos Co
Dud & Lad Co
Devos & Reynolds Inc
Donley Brothers
Elliott Paint & Varnish Co
FLINTKOTE CO
Ford Roofing Products Co
Gibson-Homans Co
Globe Paint Works Inc
Harrison Paint & Varnish Co
Horn (A C) Co Inc
INLAND STEEL PRODUCTS CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Keystone Asphalt Products Co
Koppers Co
Palco Products Inc
PECORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
RUBEROID CO
Rutland Fire Clay Co
Seaboard Plastics Corp
Serviceed Products Corp
Sonneborn (L) & Sons Inc
Steelco Mfg Co
Sullivan Co
TEXAS CO
Truscon Laboratories Div Devos & Reynolds Inc
United Gilsomite Laboratories
U S GYPSUM CO
Webster (W F) Cement Co

► CEMENT, RUBBER

Alahastine Paint Prods Div Chicago Bronze & Color Works
Borden Co Chemical Div
Broadway Rubber Mfg Co
Crescent Products Co
Goodrich (H B F) Co
Kuhls (H B Fred)
Las-Stik Mfg Co
LePage's Inc
Minnesota Mining & Mfg Co
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E) CO
National Adhesives Div National Starch Products Inc
Paisley Products Inc
Parker (S) Hose Mfg Co
Placo Div Paisley Products Inc
Standard Paste & Glue Co
St Louis Rubber Cement Co Inc
Sullivan Co
Union Rubber & Asbestos Co
U S PLYWOOD CORP
U S Rubber Co
Webster (W F) Cement Co
Williams Products Co Inc

► CEMENT, TILE

American-Glean Tile Co
ARMSTRONG CORK CO
Borden Co Chemical Div
Boyle-Midway Inc
Davis Plywood Corp
Dicks-Pontius Co
Hayes Adhesives Co
MARSH WALL PRODUCTS INC
MEDUSA PORTLAND CEMENT CO
Minnesota Mining & Mfg Co
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E)
Paisley Products Inc
PECORA PAINT CO INC
Plastic Products Co
PRESTITE MFG CO
Reardon Co
Schalk Chemical Co
Selek (Walter E) & Co
Standard Paste & Glue Co
Steelco Mfg Co
Superior Plastics Div Commonwealth Plastics Inc
Technical Supply Co
Tillot Cement Co Inc
Wallace Mfg Co
Williams Products Co Inc
X-Pando Corp

► CEMENT, WALLBOARD JOINT

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
MIRACLE ADHESIVES CORP
NATIONAL GYPSUM CO
PITTSBURGH PLATE GLASS CO
Reardon Co
U S GYPSUM CO
Wesco Waterpaints Inc

► CEMENT, WATERPROOFING

Abesto Mfg Corp
Adensite Co
American Fluoresit Co

Manufacturers' Names and Addresses Start on Page D-61

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AMERICAN BUILDER

Anti-Hydro Waterproofing Co
 Armor Laboratories Inc
BARRETT DIV ALLIED CHEMICAL & DYE CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
 Ceresit Waterproofing Corp
 Chicago Bronze & Color Works
 Du Pont (E I) de Nemours & Co Inc
 Firestone Tire & Rubber Co
FLINTKOTE CO
GENERAL PORTLAND CEMENT CO
 Gibson-Homans Co
 Horn (A C) Co Inc
JOHNS-MANVILLE CORP
 Koppers Co
 Lastik Products Co Inc
 Lebon Co
LOUISVILLE CEMENT CO
MARSH WALL PRODUCTS INC
MEDUSA PORTLAND CEMENT CO
MIRACLE ADHESIVES CORP
 National Guard Products Inc
PECORA PAINT CO INC
 Rawtile Mfg Co
 Sealcon Products Inc
 Smooth-On Mfg Co
STANDARD DRY WALL PRODUCTS INC
 Stevurate Mfg Co
 Sullivan Co
 Tammis Industries Inc
TEXAS CO
 Toth Brothers Inc
 Truscon Laboratories Div Detour & Reynolds Inc
 Webb Products Co Inc
 X-Pando Corp

▶ CHAINS, SASH
 American Chain & Cable Co Inc
 Bridgeport Chain & Mfg Co
 Campbell Chain Co
CHASE BRASS & COPPER CO
 Cleveland Chain & Mfg Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
 Esco Chain Works
 Hodell Chain Co
LOCKWOOD HARDWARE MFG CO
 Peerless Chain Co
 Taylor (S G) Chain Co
TURNER & SEYMOUR MFG CO
 Western Chain Co
 Western Foundry Co

▶ CHALK LINES
 Brownell & Co
 Carpenter (George B) & Co
 Cedarberg Mfg Co
 Cleveland Mill & Power Co
 Gladding (B F) & Co
 Goldblatt Tool Co
 Graham (John H) & Co
 Puritan Cordage Mills Inc
 Rautcher Mfg Co
SAMSON CORDAGE WORKS
 Tennessee Line & Twine Co
 Turner & Stanton Co
 Warner Mfg Co

▶ CHIMNEY CAPS
 Acme Brick Co
 Adams Co
 American Vitrited Products Co
 Bonerston Shale Co
 Cannelton Saver Pipe Co Inc
 Cyclone Mfg Co
 Dickey (W S) Clay Mfg Co
 Evans Pipe Co
 Houston Blow Pipe & Sheet Metal Works
INLAND STEEL PRODUCTS CO
 Iwan Bros Inc
 Maple City Furnace Co
NATIONAL CLAY PIPE MFRS INC
 Northwest Metal Products Inc
 Northwestern Terra Cotta Co
 Pacific Clay Products
 Penn Supply & Metal Corp
 Perma-Top Co
 Quinn Wire & Iron Works
 Robinson Clay Product Co
 Robinson & Sons Sewer Pipe Co
 Sterling Foundry Co
 Stillwater Clay Products Co
 Stretcher Drain Tile Co
 What Cheer Clay Products Co

▶ CHISELS
 American Swiss File & Tool Co
 Barzalo Mfg Co
 Bridgeport Hardware Mfg Corp
 Champion-De Arment Tool Co
 Cincinnati Tool Co
 Cleveland Steel Tool Co
 Parsons Steel Products Corp
 Delaware Tool Steel Corp
 Diston (Henry) & Sons Inc
 Fairmount Tool & Forging Co
 Fuller Tool Co
 Gessco Tool Div General Steel Warehouse Co
 Goldblatt Tool Co
 Greenlee Tool Co
 Heller Brothers
 Hood Brothers
 Leontina Tool Co
 Mayhew Steel Products Inc
 Mephisto Tool Co Inc
 Millers Falls Co
 Onastona Tool Co
 P & C Hand Forged Tool Co
 Peck Stow & Wilcox Co
 Plumb (Fayette R) Inc

Proto Tool Co
 Ratney Tools
STANLEY TOOLS DIV STANLEY WORKS
 Union Hardware Co
 Vleck Tool Co
 Vulecan Tool Mfg Co
 Wilde Drop Forge & Tool Co
 Winsted Edge Tool Works
 Woodings-Verona Tool Works

▶ CHUTES, COAL
 Adams Co
 Allen Steel Products Inc
BOSTWICK STEEL LATH CO
 Brady Conveyors Corp
COPCO STEEL & ENGINEERING CO
 Decatur Iron & Steel Co
 Donley Brothers
 Gabriel Steel Co
 Harris Inc
 Houston Blow Pipe & Sheet Metal Works
 Industrial Iron Works
 Jeffrey Mfg Co
 Johnson Industries Inc
 Kluoer Mfg Co
 Lippmann Engineering Works
MAJESTIC CO
MULLER MACHINERY CO INC
 Peerless Mfg Co
 Richmond Engineering Co
VENTO STEEL PRODUCTS CO INC

▶ CHUTES, DUST
AIR CONTROL PRODUCTS INC
 Allen Steel Products
 Allington & Curtis Mfg Co
 Harris Inc
 Kluegel (Ernest) & Co

▶ CHUTES, LAUNDRY
AIR CONTROL PRODUCTS INC
COPCO STEEL & ENGINEERING CO
 Cox (H F) & Co
 Donley Brothers
 Gabriel Steel Co
 Hanchett Chute & Conveyor Co
 Kluegel (Ernest) & Co
 Miami Cabinet Div Cary (Philip) Mfg Co

▶ CIRCUIT BREAKERS
 Adam (Frank) Electric Co
 Arrow Hart & Heesman Electric Co
BULLDOG ELECTRIC PRODUCTS CO
 Federal Electric Products Co
 Hathaway & Co
 Trumbull Electric Mfg Co
WESTINGHOUSE ELECTRIC CORP

▶ CIRCULATORS, HOT WATER HEATING SYSTEMS
BELL & GOSSETT CO
 Two Heaters Inc
THRUSH (H A) & CO

▶ CLAMPS, "C"
 Adjustable Clamp Co
 Armstrong Brothers Tool Co
 Batavia Clamp Co Inc
 Black Brothers Inc
 Burson Clip System Inc
 Carpenter & Patterson Inc
 Cincinnati Tool Co
 Handy Mfg Co
 Littlestown Hardware & Foundry Co
SARGENT & CO
 Syracuse Alloy Metals Corp

▶ CLAMPS, CARPENTER STEEL BAR
 Adjustable Clamp Co
 Batavia Clamp Co Inc
 Black Brothers Inc
 Cincinnati Tool Co
 Eberhard Mfg Co Div Eastern Malleable Iron Co
 Handy Mfg Co
 Hartford Clamp Co
 Malleable Iron Fittings Co
 Phoenix Hardware Mfg Co
 Taylor (James L) Mfg Co

▶ CLAMPS, CONCRETE CONSTRUCTION
 Adjustable Clamp Co
 Batavia Clamp Co Inc
 Cincinnati Tool Co
 Fischer & Hayes Rope & Steel Co
 M & M Wire Clamp Co
 Richmond Screw Anchor Co
 Star Expansion Products Co Inc
 Universal Form Clamp Co
 Williams Form Engineering Corp

▶ CLAMPS, FILING
 Adjustable Clamp Co
 Atkins (E C) Div Borg Warner Co
 Diston (Henry) & Sons
 Hanchett Mfg Co
SARGENT & CO

▶ CLAMPS, STEEL
BRIGGS MFG CO

▶ CLAMPS, WOODWORKERS'
 Adjustable Clamp Co
 Armstrong Brothers Tool Co
 Batavia Clamp Co Inc
 Black Brothers Inc
 Cincinnati Tool Co
 Eberhard Mfg Co Div Eastern Malleable Iron Co
 Grand Specialties Co
 Handy Mfg Co
 Hartford Clamp Co
 Knapp & Vogt Mfg Co
 Malleable Iron Fittings Co
SARGENT & CO
 Starrett (L S) Co
 Taylor (James L) Mfg Co
 Union Tool Co

▶ CLEANERS, HAND
CABOT (SAMUEL) & CO INC
 Dennis Chemical Co
 Glidden Co
MIRACLE ADHESIVES CORP
 Pacific Chemical Co
 Speed Inc
 Technical Development Laboratories

▶ CLEANERS, PAINT BRUSH

Regal Co
 Boston Varnish Co
 Boyer Chemical Laboratory Co
 Boye-Midway Inc
 Briggs-Maroney Co Inc
CABOT (SAMUEL) & CO INC
 Christy Co Inc
 Cleveland Heater & Paste Co
 Commercial Solvents Corp
 Consumers Glue Co
 Coughlan (G N) Co
 Fuller (H B) Co
 Glidden Co
 Klein Chemical Co
 Meinhardt (J A) & Co
 Patent Cereals Co
 Penstone Co
PITTSBURGH PLATE GLASS CO
 Portable Electric Tools Inc
RED DEVIL TOOLS
 Savogran Co
 Sealk Chemical Co
 Sheffield Bronze & Paint Corp
 Steelsmith Mfg Co
STERLING PAINT & VARNISH CO
 Tammis Industries Inc
 United Gilsblitt Laboratories
 Wisconsin Laboratories Inc

▶ CLEANERS, PAINT BRUSH, ELECTRIC
 Nashway Mfg Co
 Portable Electric Tools Inc
RED DEVIL TOOLS

▶ CLEANERS, PAINT & VARNISH
 Royle-Midway Inc
 Carbons Products Co
 Christy Co Inc
 DuPont (E I) de Nemours & Co
 Economics Laboratory Inc
 Ethyl Corp
 Glidden Co
 Lowe Bros
 Pacific Chemical Co
 Patent Cereals Co
PITTSBURGH PLATE GLASS CO
 Procter & Gamble Co
 Savogran Co
 Sealk Chemical Co
 Sheffield Bronze & Paint Corp
 Socony-Vacuum Oil Co
 Sullivan Co
 Tammis Industries Inc
 Wesco Waterpaints Inc

▶ CLIPS, BRIDGING & JOISTS, STEEL
 Bethlehem Steel Co
 Soule Steel Co
TRUSCON STEEL CO

▶ CLIPS, CONCRETE
 American Expansion Bolt & Mfg Co
CECO STEEL PRODUCTS CO
 Goldsmith Metal Lath Co
 Heckmann Building Products Co
 Merwin Mfg Co
PETERSON PRODUCTS CO
 Richmond Screw Anchor Co
 Sommer Metalcraft Co
 Union Steel Products Co
 Williams Form Engineering Corp
 Winner Industries

▶ CLIPS, FLOOR
 Bethlehem Steel Co
 Merwin Mfg Co
PENN METAL CO INC
 Sommer Metalcraft Co
STEELCRAFT MFG CO
TRUSCON STEEL CO

▶ CLIPS, GLAZING FOR STEEL SASH
 Adams Co
CECO STEEL PRODUCTS CO
COPCO STEEL & ENGINEERING CO
 Dunley Bros Co
 Gabriel Steel Co
 Harris Inc
KEWANEE MFG CO
LIBBY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO
 Sommer Metalcraft Corp
 Young (L A) Spring & Wire Corp

▶ CLIPS, PLASTERBOARD LATH, CEILING, ACOUSTICAL TILE
 Burson Clip System Inc
 E G Building Fasteners Corp
 U S GYPSUM CO

▶ CLIPS, PLASTER LATH, SPRING
PENN METAL CO INC
 Soule Steel Co
 U S GYPSUM CO

▶ CLIPS, ROOFING
CECO STEEL PRODUCTS CO
 Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
NOVA SALES CO
 Oiljak Mfg Co
 Ryerson (Joseph T) & Son
 Seal-All Clip Co

▶ CLIPS, WALLBOARD & CEILING TILE
 E G Building Fasteners Corp
INSULITE CO DIV MINNESOTA & ONTARIO PAPER CO
 UPSON CO
 WOOD CONVERSION CO

▶ CLIPS, WIRE ROPE
 American Hoist & Derrick Co
AMERICAN STEEL & WIRE CO
 Roehling's (John A) Sons Co
 Usson-Walton Co
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP

▶ CLOTHES DRYERS
APEX ELECTRICAL MFG CO
BENDIX HOME APPLIANCES INC DIV AVCO MFG CORP
 Blackstone Corp
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT DIV
 Chicago Dryer Co
 Clay Equipment Corp
 Colgate Mfg Co
CROSLBY DIV AVCO MFG CORP
 Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO APPLIANCE & MERCHANDISE DEPT
 Hamilton Mfg Co
HOTPOINT INC
 Howard Mfg Co
 Kraus (Walter S) Co
 National Metal-Art Mfg Co
 Pressed Steel Co
 Rotary Clothes Dryer Co Inc
 Scientific Heater Co
 Southern Galvanizing Co
TEMCO INC
WESTINGHOUSE ELECTRIC CORP APPLIANCE DIV
 Whirlpool Corp
 Woodware Products Corp

▶ CLOTHES LINE HOLDERS, HOOKS & BARS
 Acme Metal Goods Mfg Co
 Bocarup Mfg Corp
 Champion Hardware Co
 Colonial Bronze Co
FAWSCO MFG DIV
 Judd (H L) Co Inc
 Lawrence Brothers
 Midland Co
 New Holland Metals Co
 Penn Hardware Co
 Rap-Loc Products Co
SARGENT & CO
 Sharon Hardware Mfg Co
 Southern Galvanizing Co
 Young Specialty Co

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▶ CLOTHES-LINE POLES & POSTS, WOOD, STEEL, IRON

Banks Steel Post Co
Cincinnati Iron Fence Co
Coyle (H B) Co
Donley Brothers
Hohmann & Barnard Inc
KEWANEE MFG CO
Newark Steel Post Co
Rep-Loc Products Co
Rotary Clothes Dryer Co
Southern Galvanizing Co

▶ CLOTHES LINE PULLEYS

Acme Metal Goods Mfg Co
Berkeley Specialties Co
General Hardware Mfg Co
Penn Hardware Co
SARGENT & CO
S-R Mfg Co
STANLEY WORKS

▶ COATINGS, CONCRETE FLOOR

Flash Stone Co Inc
MEDUSA PORTLAND CEMENT CO

▶ COATINGS, EMULSIFIED ASPHALT

AMERICAN ASPHALT ROOF CORP
ARMSTRONG CORK CO
CAREY (PHILIP) MFG CO
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
Horn (A C) Co Inc
Lowe Brothers
Spray-O-Bond Co
Sullivan Co
Tamm Industries Inc
Tuffalt Inc

▶ COATINGS, LINOLEUM

Abeato Mfg Corp
Arier Daniels Midland Co
BRUCE (E L) CO
Chapman Chemical Co
Chicago Bronze & Color Works
Horn (A C) Co Inc
Minnesota Linseed Oil Paint Co
O'Brien Corp
Pabeo Products Inc
PITTSBURGH PLATE GLASS CO
Plastik-Kote Co
SHERWIN-WILLIAMS CO
Truscen Laboratories Div Devco & Reynolds
Inc
Vita-Var Co
Wilbur & Williams Co

▶ COATINGS, ROOF, ALUMINUM & ASPHALT

Abeato Mfg Corp
Aluminum Industries Inc
AMERICAN ASPHALT ROOF CORP
American Mariposa Co
BARRETT DIV ALLIED CHEMICAL & DYE
CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Donley Brothers
FLINTKOTE CO
Ford Roofing Products Co
Globe Roofing Products Co
Horn (A C) Co
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Koppers Co
Lelon Co
Lowe Brothers
Pabeo Products Inc
PITTSBURGH PLATE GLASS CO
REYNOLDS METALS CO
RUBEROID CO
Seaboard Plastics Corp
Sheffield Bronze & Paint Corp
Sonneborn (L) & Sons Inc
Spray-O-Bond Co
Sullivan Co
TEXAS CO
Tremco Mfg Co
United Gilsomite Laboratories
U S GYPSUM CO
Vita-Var Co
Welster (W F) Cement Co

▶ COATINGS, ROOF, ASPHALT

Acme Asbestos Covering & Flooring Co
Asbestos Asphalt & Insulation Inc
Beving Brothers
CALBAR PAINT & VARNISH CO
CELOTEX CORP
Ceresit Waterproofing Corp
Chemical Supply Co
Dad & Lad Co
Dewatex Mfg Corp
Donley Brothers Co
Empire Varnish Co
Glidden Co
Globe Roofing Products Co
Gordon (George B) Chemical Co
Lath Products Co Inc
Mar-Kay Mfg Co

Pabeo Products Inc
PECORA PAINT CO
PITTSBURGH PLATE GLASS CO
Reilly Tar & Chemical Corp
Sonneborn (L) Sons Inc
United Gilsomite Laboratories

▶ COLORS, CONCRETE, MORTAR, PLASTER

Blue Ridge Tale Co Inc
Ceresit Waterproofing Corp
Chicago Bronze & Color Works
Clinton Metallic Paint Co
Concrete Industries Inc
Fox (M Ewing) Co Inc
Gordon (George C) Chemical Co
Horn (A C) Co Inc
Mineral Pigments Corp
MEDUSA PORTLAND CEMENT CO
NATIONAL GYPSUM CO
PECORA PAINT CO INC
Ricketson Mineral Color Works
Sealcon Products Inc
Smith Chemical & Color Works
Smith (George B) Chemical Works
Smith (J Lee) & Co Inc
Sonneborn (L) & Sons Inc
Sullivan Co
Tamm Industries Inc
Toeh Brothers Inc
TROYER DRIVEWAY SERVICE
Truscen Laboratories Div Devco & Reynolds
Co Inc
Vita Mfg Co
Washington Brick & Lime Co
Weaco Waterpans Inc
Williams (C K) & Co

▶ COLORS, OIL

Boston Varnish Co
Chi Namei Paint & Varnish Co
Elliott Paint and Varnish Co
Glidden Co
Horn (A C) Co Inc
Keystone Varnish Co
Lowe Bros
Martin-Senour Co
Moore (Benjamin) & Co
PITTSBURGH PLATE GLASS CO
Reardon Co
Sewall Paint & Varnish Co
Sheffield Bronze & Paint Corp
Steelco Mfg Co
Truscen Laboratories Div
Vita-Var Co

▶ COLORS, PAINT

American Varnish Co
Bengal Co
Boston Varnish Co
CABOT (SAMUEL) & CO INC
Chicago Bronze & Color Works
Devco & Reynolds Inc
DuPont DeNemours (E I) & Co
Hillott Paint & Varnish Co
Egner Varnish Co
Glidden Co
Horn (A C) Co Inc
Lowe Bros
Mineral Pigments Corp
Muggly Paint Div Interechemical Corp
NATIONAL GYPSUM CO
O'Brien Corp
Patterson-Sargent Co
PITTSBURGH PLATE GLASS CO
Pratt & Lambert Inc
SHERWIN-WILLIAMS CO
Smith Chemical & Color Co Inc
Triscen Laboratories Div Devco & Reynolds
Co Inc
U S GYPSUM CO

▶ COLUMNS, METAL

Akron Products Co
Allen Steel Products
Bethlehem Steel Co
Brainard Steel Co
COFFMAN (R G) CO INC
Donley Brothers
FAWSCO MFG DIV FALLS STAMPING & WELDING CO
Hutchinson Mfg Co
International Steel Co
KEWANEE MFG CO
Locke Mfg Co
Louden Machinery Co
Modern Welding Co
National Tube Co
Sharon Steel Co
TRUSCON STEEL CO DIV REPUBLIC STEEL
CORP
Union Metal Mfg Co
Wolfe Products Inc

▶ COLUMNS, WOOD

Cole Mfg Co
CURTIS COMPANIES INC
Huttig Sash & Dagr Co
M & M Woodworking Co
Mutual Fir Column Co
Positive Mutual Door Co
RILCO LAMINATED PRODUCTS INC
Schward (A F) Mfg Co
TIMBER STRUCTURES INC
Washington Mfg Co

▶ COMPOUNDS, ANTI-FREEZE, CONCRETE

Anti-Hydro Waterproofing Co
Flexrock Co
Fort Pitt Chemical Co
Horn (A C) Co
Sonneborn (L) & Sons Inc
Sullivan Co
Toch Brothers Inc

▶ COMPOUNDS, ANTI-TERMITE

Abeato Mfg Corp
Boyer Chemical Laboratory Co
Broadway Rubber Mfg Co
BRUCE (E L) CO
CABOT (SAMUEL) & CO INC
C-A Wood Preserver Co
Carbolineum Wood Preserving Co
Coopers Creek Chemical Corp
Cre-O-Tox Chemical Co
Dow Chemical Co
Elroy Naval Stores Co
Esick Mfg Co
Forman-Ford & Co
Gordon (George C) Chemical Co
Hill Termite Control Systems
MONSANTO CHEMICAL CO
Paleo Products Inc
PROTECTION PRODUCTS MFG CO
Protel Corp
Reilly Tar & Chemical Corp
Republic Creaming Co
Rockford Paint Mfg Co
Sullivan Co
Tennessee Eastman Corp
Terminal Co
Vaccinol Sales Co
Wood Treating Chemical Co

▶ COMPOUNDS, RUST PREVENTING & REMOVING

American Chemical Paint Co
American Rust Proof Co Inc
CABOT (SAMUEL) & CO INC
Camp Chemical Co
Carbozite Protective Coatings Corp
Continental Asbestos & Bedding Corp
Devco & Reynolds Inc
Du Pont (E I) de Nemours & Co
Firestone Tire & Rubber Co
FLINTKOTE CO
Hollingshead (R M) Corp
Horn (A C) Co
Keystone Asphalt Products Co
Minnesota Mining & Mfg Co
Murphy Paint Div Interechemical Corp
Neon Chemical Co
New-Rust Chemical Corp
Oakite Products Inc
Parker Rustproof Co
Pennsylvania Salt Mfg Co
PITTSBURGH PLATE GLASS CO
Preslite Engineering Co
Protective Coatings Inc
Puritan Chemical Co
Reilly Tar & Chemical Corp
Rusticide Co
Rustoleum Corp
Simmons Co Industrial Div
Smith Oil Refining Co
Sonneborn (L) Sons Inc Divg Products Div
Speco Inc
Steelco Mfg Co
Stop-Rust Co
TEXAS CO
Toch Bros Inc
Truscen Laboratories Div Devco & Reynolds
Co Inc
Vita-Var Corp
Wayne Chemical Products Co
Wilbur & Williams Co
X-Pando Corp

▶ CONCRETE BLOCK CUBING MACHINES

BESSER MFG CO

▶ CONCRETE BLOCK DRYING RACKS

BESSER MFG CO
Colorcrete Industries Inc
Equipment Mfg Inc
Fleming Mfg Co

▶ CONCRETE BLOCK MACHINES

Air Placement Equipment Co
Anchor Concrete Machinery Co
Appley (J W) & Son Inc
BESSER MFG CO
Concrete Equipment Co
Concrete Transport Mixer Co
Crawford Industries
Dunn (W E) Co
Equipment Engineering Co
Fleming Mfg Co Inc
Ford Cement Block Machine Co
General Engines Co Inc
George (F C) Machine Co

Hollystone Co
Jackson & Church Co
Kent Machine Co
LITHIBAR CO
Little Giant Products Inc
Mortarless Tile Machine Co Inc
Multiplex Machinery Corp
Murray (D J) Mfg Co
Reed (R S) Corp
Stearns Mfg Co Inc
Tyra (R K) Co
Universal Tampers Inc
Ziedler Concrete Products Machinery Co

▶ CONCRETE CURING COMPOUNDS

Adensite Co
Aluminum Industries Inc
American Fluorite Co Inc
Anti-Hydro Waterproofing Co
CALBAR PAINT & VARNISH CO
Camp Chemical Co
CARTER-WATERS CORP
Ceresit Waterproofing Corp
Devco & Reynolds Inc
Bow Chemical Co
Evercrete Corp
Fleming Mfg Co
Fort Pitt Chemical Co
Glidden Co
Horn (A C) Co
Keystone Asphalt Products Co
Ranette Mfg Co
Sealcon Products Inc
SOLVAY PROCESS DIV ALLIED CHEMICAL
& DYE CORP
Sonneborn (L) Sons Inc
Spray-O-Bond Co
Truscen Laboratories Div Devco & Reynolds
Inc

▶ CONCRETE FORM, METAL MATERIALS

Blaw-Knox Div Blaw-Knox Co
CECO STEEL PRODUCTS CORP
Reform Corp
Ryverson (Joseph T) & Son
Souls Steel Co
U S PLYWOOD CORP
Williams Form Engineering Corp

▶ CONCRETE FORM TIES

Bethlehem Steel Co
Dayton Sure-Grip & Shore Co
GATES & SON INC
Gerrard (A J) & Co
Goldsmith Metal Lath Co
M & M Wire Clamp Co
Richmond Screw Anchor Co
Rockform Corp
Sheffield Steel Corp
Sommer Metalcraft Corp
Star Expansion Products Inc
SYMONS CLAMP & MFG CO
Universal Form Clamp Co
Williams Form Engineering Corp
Winner Industries

▶ CONCRETE FORMS

Aetna Plywood & Veneer Co
American Steel Works
Art Concrete Works
ATLAS PLYWOOD CORP
Bay City Cast Stone Block Co
BESSER MFG CO
Bethlehem Steel Co
BIERSACH & NIEDERMAYER CO
Commercial Shearing & Stamping Inc
Des Lauriers Column Mould Co
Economy Forms
Economy Mfg Co
Fir-Tex Insulating Board Co
Fleming Mfg Co
Goldsmith Metal Lath Co
Heltzel Steel Form & Iron Co
Irvington Form & Tank Co
Keystone Asphalt Products Co
Mecho Products Co
MEDUSA PORTLAND CEMENT CO
Multiplex Concrete Machinery Corp
Quinn Wire & Iron Works
Reform Corp
SONOCO PRODUCTS CO
SYMONS CLAMP & MFG CO
Universal Form Clamp Co
U S GYPSUM CO
Ziedler Concrete Products Machinery Co

▶ CONCRETE HARDENERS

Adensite Co
American Fluorite Co
Anti-Hydro Waterproofing Co
Armor Laboratories Inc
Belmont Smelting & Refining Works Inc
Blue Ridge Tale Co Inc
Camp Chemical Co
Celador Corp
Ceresit Waterproofing Corp
Connolly Inc
Devco & Reynolds Inc
Empire Varnish Co
Evercrete Corp
Flexrock Co
Fort Pitt Chemical Co
Harrow Chemical Co
Horn (A C) Co
KAV TITE CO
Smooth-On Mfg Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Sonneborn (L) & Sons Inc
 Spray-O-Bond Co
STANDARD DRY WALL PRODUCTS INC
 Steelco Mfg Co
 Stenhard Co
 Sullivan Co
 Tamm Industries Inc
 Truson Laboratories Div Devco & Reynolds
 Inc
 Tufcrete Co Inc
 Vita-Var Co
 Wilbur & Williams

► **CONCRETE JOIST MACHINES**

BESSER MFG CO
 Coloverite Industries Inc
LITHIBAR CO
 Steatus Mfg Co Inc

► **CONCRETE MIXERS, MORTAR, ETC.**

Barber-Greene Co
BESSER MFG CO
 Buch Mfg Co
 Chain Belt Co
 Concrete Transport Mixer Co
CONSTRUCTION MACHINERY SALES CO
 Dunn (W E) Mfg Co
 Essick Mfg Co
 Fleming Mfg Co
 Gilson Brothers Co
 Goldblatt Tool Co
JAEGER MACHINE CO
 Johnson (C S) Co
 Knickerbocker Mfg Co
 Koehring Co
 Kwik Mix Concrete Mixer Co
 Lansing Co
 Little Giant Products Inc
MULLER MACHINERY CO INC
 Northwest Metal Products Inc
 Pony Mixer Co
 Smith (T L) Co
 Stearns Mfg Co Inc
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► **CONCRETE MIXERS, TRANSPORT**

Blaw-Knox Div Blaw-Knox Co
 Chain Belt Co of Milwaukee
 Concrete Transport Mixer Co
CONSTRUCTION MACHINERY SALES CO
JAEGER MACHINE CO
 Smith (T L) Co
 Willard Concrete Machinery Co Ltd
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► **CONCRETE PAVERS**

Chain Belt Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► **CONCRETE PIPE MACHINES**

BESSER MFG CO
 Concrete Pipe Machinery Co
 Dunn (W E) Mfg Co
 Universal Concrete Pipe Co Inc
 Ziedler Concrete Products Machinery Co

► **CONCRETE PLANTS, CENTRAL MIXING**

BESSER MFG CO
 Blaw-Knox Div Blaw-Knox Co
 Butler Bin Co
 Chain Belt Co
 Concrete Transport Mixer Co
CONSTRUCTION MACHINERY SALES CO
 Johnson (C S) Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► **CONCRETE PRODUCTS, PLANT MIXERS**

BESSER MFG CO
 Blaw-Knox Div Blaw-Knox Co
 Butler Bin Co
CARTER-WATERS CORP
 Chain Belt Co of Milwaukee
 Concrete Transport Mixer Co
CONSTRUCTION MACHINERY SALES CO
 Dodson Mfg Co Inc
 Dunn (W E) Mfg Co
 Erie Steel Const Co
 Fleming Mfg Co
 Foote (J B) Foundry Co
 George (F C) Machine Co
 Gilson Brothers Co
 Heltzel Steel Form & Iron Co
JAEGER MACHINE CO
 Johnson (C B) Co
 Kent Machine Co
 Koehring Co
MULLER MACHINERY CO INC
 Multiplex Machinery Corp
 Noble Co
 O K Mfg Co
 Smith (T L) Co
 Stearns Mfg Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► **CONCRETE PRODUCTS PLANTS**

BESSER MFG CO
 Blaw-Knox Div Blaw-Knox Co
 Butler Bin Co
 Equipment Engineering Co
 Fleming Mfg Co
 George (F C) Machine Co
 Johnson (C S) Co
 Stearns Mfg Co Inc

► **CONCRETE SEALERS**

American Asbestos Products Co
 American Crayon Co
AMERICAN FLOOR SURFACING MACHINE CO
 American Fluoresc Co
 Atlas Mineral Products Co
 Claronex Products Inc
 Ohio Akons Co
 Serviced Products Corp
 Spray-O-Bond Co
 Truson Laboratories Div Devco & Reynolds Co
 Wesco Waterpaints Inc
 Wilbur & Williams Co

► **CONCRETE SILO STAVE MACHINES**

BESSER MFG CO

► **CONCRETE VIBRATOR, GAS-OILINE & ELECTRIC**

Dart Mfg & Sales Co
INDEPENDENT PNEUMATIC TOOL CO
 Ingersoll-Rand Inc
MALL TOOL COMPANY
SYNTRON COMPANY

► **CONDUCTORS, TUBULAR**

GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT

► **CONDUIT, ASBESTOS, AIR**

CAREY (PHILIP) MFG CO

► **CONDUIT, FLEXIBLE**

American Flexible Conduit Co
 Austin (M B) Co
 Federal Electric Products Co
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
NATIONAL ELECTRIC PRODUCTS CORP
 Pyle-National Co
 Spang-Chalfant Div National Supply Co
 Triangle Conduit & Cable Co
WIREMOLD CO

► **CONDUIT, RIGID**

American Brass Co
 Austin (M B) Co
CHASE BRASS & COPPER CO
 Conduit Pipe Products Co
 Federal Electric Products Co
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
JOHNS-MANVILLE CORP
NATIONAL ELECTRIC PRODUCTS CORP
 Orangeburg Mfg Co Inc
 Porter-Hayden Companies
 Pyle-National Co
 Spang-Chalfant Div National Supply Co
 U S Rubber Co

► **CONNECTORS, ELECTRIC**

WIRE, CABLE

GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
 Hubbell (Harvey) Inc

► **CONVECTORS**

Acme Industries Inc
AMERICAN RADIATOR & STANDARD SANITARY CORP
BIRNBAUM CORP
BUSH MFG CO
CRANE CO
FEDDERS-QUIGAN CO
MODINE MFG CO
 National Radiator Co
 Nesbitt (John J) Inc
 Rempe Co
 Rittinger Corp
 Trane Co
 Tuttle & Bailey Inc
 Utica Radiator Corp
VULCAN RADIATOR CO
 Webster (Warren) & Co
YOUNG RADIATOR CO

► **CONVEYORS, BUCKET & FLIGHT**

Alvey-Ferguson Co Inc
 American Conveyor Co

Atlas Conveyor Co
 Barber-Greene Co
 Baughman Mfg Co Inc
 Bosworth Mfg Co
 Fairfield Engineering Co
 Farquhar (A B) Co
 Godfrey Conveyor Co
 Haisa (George) Mfg Co Div Pettibone Mul-
 -iken Corp
 Haslett Chute & Conveyor Co
 Hewitt Rubber Div Hewitt-Robins Inc
 Henry-Berg Steel & Iron Works
 Jeffrey Mfg Co
 Keenawee Machinery & Conveyor Co
 Lake Shore Engineering Co
 Lamson Corp
 Link-Belt Co
 Lippmann Engineering Works
 Mathews Conveyor Co
MULKEY (SAM) CO
 Northern Conveyor Co
 Power-Pack Conveyors
 Rapids-Standard Co Inc
 Standard Conveyor Co
 Western Foundry Co
 Willard Concrete Machinery Co Ltd

► **CONVEYORS, CHAIN LINK & CHAIN BELT**

Allington & Curtis Mfg Co
 Chain Belt Co
 Cyclone Fence Div American Steel & Wire Co
 Fluor & Stowell
 Haisa (George) Mfg Co Div Pettibone Mul-
 -iken Corp
 Jeffrey Mfg Co
 Lamson Corp
 Link-Belt Co
 Mathews Conveyor Co
 Northern Conveyor Co
 Stephens-Adamsom Mfg Co

► **CONVEYORS, GRAVITY ROLLER**

Allied Welding & Mfg Co
 Barber-Greene Co
BELSAM MACHINERY CO
BESSER MFG CO
 Blatt (Frank I) Co Inc
 Bonded Seale & Machine Co
 Brady Conveyors Corp
 Butler Bin Co
 Chain Belt Co
 Chase Turbine Mfg Co
 Corley Mfg Co
 Darden (Roy) Industries Inc
 Equipment Engineering Co
 Franchini (A) Co
 Fleming Mfg Co
 General Conveyor & Mfg Co
 George (F C) Machine Co
 Gifford-Wood Co
 Godfrey Conveyor Co
 Haisa (George) Mfg Co
 Haslett Chute & Conveyor Co
 Jeffrey Mfg Co
 Johnson (C S) Co
 Lakeshore Engineering Co
 Lamson Corp
 Link-Belt Co
 Lippmann Engineering Works
 Logan Co
 Lyon Metal Products Inc
 Noble Co
 O K Mfg Co
 Rapids-Standard Co Inc
 Standard Conveyor Co
 Stearns Mfg Co Inc
 Western Foundry Co
 Wilson Saw Div Media Machine Works Inc

► **CONVEYORS, OVERHEAD**

ALLITH PROUTY INC
 Brady Conveyors Corp
 Cleveland Tramrail Div Cleveland
 Crane & Engineering Co
 Fairfield Engineering Co
 Farquhar (A B) Co
 Gifford-Wood Co
 Godfrey Conveyor Co
 Haisa (George) Mfg Co Div Pettibone Mul-
 -iken Corp
 Hewitt Rubber Div Hewitt-Robins Inc
 Johnson (C S) Co
 Johnson Industries Inc
 Lamson Corp
 Link-Belt Co
 Lippmann Engineering Works
 Loudon Machinery Co
 Mathews Conveyor Co
 Nay Mfg Co
 Northern Conveyor Co
 Rapids-Standard Co Inc
RICHARDS-WILCOX CO
 Starline, Inc
 Western Foundry Co
**WICKWARE SPENCER STEEL DIV COLO-
 RADO FUEL & IRON CORP**

► **CONVEYORS, PORTABLE BELT**

Alvey-Ferguson Co Inc
 American Conveyor Co
 Atlas Conveyor Co

Barber-Greene Co
 Baughman Mfg Co Inc
 Bosworth Mfg Co
 Fairfield Engineering Co
 Farquhar (A B) Co
 Godfrey Conveyor Co
 Haisa (George) Mfg Co Div Pettibone Mul-
 -iken Corp
 Haslett Chute & Conveyor Co
 Hewitt Rubber Div Hewitt-Robins Inc
 Henry-Berg Steel & Iron Works
 Jeffrey Mfg Co
 Keenawee Machinery & Conveyor Co
 Lake Shore Engineering Co
 Lamson Corp
 Link-Belt Co
 Lippmann Engineering Works
 Mar-Ball Conveyor Co
 Mathews Conveyor Co
MULKEY (SAM) CO
 Northern Conveyor Co
 Power-Pack Conveyors
 Rapids-Standard Co Inc
 Standard Conveyor Co
 Western Foundry Co
 Willard Concrete Machinery Co Ltd

► **COOLERS, WATER, ELECTRIC**

AIRTEMP DIV CHRYSLER CORP
 Elen Mfg Co
 Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO AIR CONDITIONING DEPT
 Harsco Drinking Faucet Co
KELVINATOR DIV NASH-KELVINATOR CORP
 Sunroc Company
 Taylor (Halsey W) Co
WESTINGHOUSE ELECTRIC CORP

► **COPPER STRUCTURAL SHAPES**

CHASE BRASS & COPPER CO
 Revere Copper & Brass Co

► **CORD, PLASTIC**

HUNTER DOUGLAS CORP
 SAMSON CORDAGE WORKS

► **CORD, RUBBER**

GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT

► **CORNICES, METAL**

BERGER MFG CO DIV REPUBLIC STEEL
 CORP
 Edwards Mfg Co
 Meyer (F) & Brother Co
STEELCRAFT MFG CO

► **CORNERS, SIDING**

Allen Steel Products
BARRETT DIV ALLIED CHEMICAL & DYE CORP
BIRD & SON INC
 Bigher Mfg Co
CELOTEX CORP
 Donley Brothers Co
 Edwards Mfg Co
FLINTKOTE CO
INLAND STEEL PRODUCTS CO
JONES & BROWN INC
 Keen (F D) Mfg Co
 Klausner Mfg Co
 LaFrance Steel Roofing & Corrugating Co
 Merwin Mfg Co
 Northwest Metal Products Inc
REYNOLDS METALS CO BLOG PRODUCTS DIV
ST PAUL CORRUGATING CO
U S GYPSUM CO
 Wheeling Corrugating Co

► **COUNTER DISPLAY CABINETS**

Aetna Plywood & Veneer Co
 American Plywood Corp
 Colgate Mfg Corp
 Engineers Plywood Products Co
 Equipto Div Aurora Equipment Co
 General Wood Works
 Grammes (L F) & Sons Inc
 Grand Rapids Store Equipment Co
 Heller (W C) & Co
 Hines (Edward) Lumber Co
 Kraus (Walter S) Co
 Larson (Thas O) Co
LONG-BELL LUMBER CO
 Lyon Metal Products Inc
 Marvel Rack Mfg Co
MOORE (GOODLOE E) INC
 Precision Equipment Co
 Roberts Hardware Corp
 Rustic Furniture Co Inc
 Schwartz Showell Corp
 Stackbin Corp
STANDARD STEEL WORKS
 Universal Steel Equipment Corp
 Warren (J D) Mfg Co

► **COVE, MOLDED PLYWOOD**

Keller Products Inc
UNITED STATES PLYWOOD CORP

► **COVERING, FABRIC WALL**

Columbus Coated Fabrics Corp

Manufacturers' Names and Addresses Start on Page D-61
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Standard Coated Products Div Interchemical Corp
WIGGIN'S (H B) SONS CO

COVERING, PIPE, ASBESTOS

Aeme Asbestos Covering & Flooring Co
ARMSTRONG CORK CO
Asbestos Asphalt & Insulation Inc
CAREY (PHILIP) MFG CO
Curtis Mfg & Asbestos Co
Ebest Magnesia Mfg Co
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Pabco Products Inc
RUBERDID CO
Rull Mountain Co
Smith & Kanzler Co
Standard Asbestos Mfg Co
Wilson (Grant) Inc

COVERINGS, PIPE, CLOTH

MORTELL (J W) CO

COVERINGS, PIPE, FIBROUS GLASS

OWENS-CORNING FIBERGLAS CORP

COVERINGS, RESILIENT WALL

Stoane-Blabou Corp

COVERINGS, WALL, WOOD-ON-CLOTH

Brason Mfg Co
U S PLYWOOD CORP

COVERINGS, VINYL PLASTIC FLOOR

Goodyear Tire & Rubber Co Flooring Dept
Delaware Floor Products Inc
NACHWEISTER INC
Saudra Co

COVERS, MANHOLE & CISTERN

Donley Brothers
Industrial Iron Works
Logan Company
MAJESTIC COMPANY

CRANES, CRAWLER & TRUCK MOUNTED

UCYRUS-ERIE CO

CRANES, OVERHEAD TRAVELING

American Bridge Co Sub of U S Steel Corp
American Chain & Cable Co Inc
Bridgport Chain & Mfg Co
Chisholm Moore Hoist Corp
Cleveland Trammell Div
Cleveland Crane & Engineering Co
Detroit Hoist Machine Co
Electro Lift Inc
HARNISCHFEGER CORP
Lane Mfg Co
Manning Maxwell & Moore Inc
Reading Chain & Block Corp
RICHARDS-WILCOX CO
Shaw Box Crane & Hoist Div
Shepard Niles Crane & Hoist Co

CRANES, POWER INDUSTRIAL

American Hoist & Derrick Co
Atlantic Transportation Co Dir Yale & Towne Mfg Co
Clyde Iron Works Inc
Ewell Parker Electric Co
HARNISCHFEGER CORP
Hyster Co
Lewis Shepard Products Inc
Ross Carrier Co
Shepard Niles Crane & Hoist Corp
Silent Hoist & Crane Co

CRANES, TRACTOR & TRUCK

Bradley Machine Co
Bridgport Chain & Mfg Co
UCYRUS-ERIE CO
Clyde Iron Works Inc
Doost Mfg Corp
HARNISCHFEGER CORP
Hyster Co
Koehring Co
OLIVER CORP
Stimmel Winch Co
Silent Hoist & Crane Co
Taylor Machine Works

CRANES & SHOVELS, POWERED

ALLIS-CHALMERS MFG CO
Ray City Shovels Inc
UCYRUS-ERIE CO
Chisholm Moore Hoist Corp Div Columbus-McKinnon Chain Corp
Charles Machine Works
Cleveland Trencher Co
Clyde Iron Works Inc
Dap Smith Hydraulic Corp
HARNISCHFEGER CORP
Hughes Keenan Co
Hydrocrane Div Bucyrus-Erie Co
Hyster Co
Koehring Co
Link Belt Speeder Co
Lohse (Harry) Co Inc
Louden Machinery Co
Marion Power Shovel Co
Michigan Power Shovel Co
Milwaukee Power Equipment Co
Northwest Engineering Co
Orton Crane & Shovel Co
Osgood Co
Red Tiger Products Inc
Ross Carrier Co
Schield Bantam Co
Shaw-Box Crane & Hoist Div Manning Maxwell & Moore Inc
Silent Hoist & Crane Co
Trow Shovel Co
Unit Crane & Shovel Corp

CREOSOTE

American Creosote Works Inc
BARRETT DIV ALLIED CHEMICAL & DYE CORP
CADOT (SAMUEL) & CO INC
C-A Wood Preserver Co
Carbolignum Wood Preserving Co
INLAND STEEL CO
Koppers Co
Profol Corp
Reilly Tar & Chemical Corp

CRESTING & FINIALS, ROOF, SHEET METAL

BERGER MFG CO DIV REPUBLIC STEEL
CECO STEEL PRODUCTS CORP
Edwards Co Inc
INLAND STEEL PRODUCTS CO
PENN METAL CO INC
Wheeling Corrugating Co

CRIBBING, WIRE

AMERICAN STEEL & WIRE CO
Continental Steel Corp
KEYSTONE STEEL & WIRE CO
Logan Co
Mid States Steel & Wire Co
Northwestern Steel & Wire Co

CRIBS, CORN, PORTABLE

AMERICAN STEEL & WIRE CO
Bestrice Steel Tank Mfg Co
Butler Mfg Co
Capitol Fence Co
Gaynor (E S) Lumber Co
Illinois Wire & Mfg Co
KEYSTONE STEEL & WIRE CO
Maltson Wire & Mfg Co Inc
Mid-States Steel & Wire Co
Milwood Steel Products Co
MOORE (GOODLOE) CO
Nebraska Bridge Supply & Lumber Co
Northwestern Steel & Wire Co
RIICO LAMINATED PRODUCTS INC
ROWE MFG CO
Security Fence & Mfg Co
Super Structures Inc
Weeler-Arnold Co

CRIBS, GRAIN, STEEL

Agrifort Chemical Corp
Easton Metal Products Corp
Freeland Sons Co
G F Mfg Co
KEYSTONE STEEL & WIRE CO
Lammek Products Inc
Martin Steel Products Corp
Ross Equipment Co

CUTTERS, ASBESTOS, CEMENT BOARD

JOHNS-MANVILLE CORP
PEARSON (O) MFG CO

CUTTERS, BAR

Blum (Julius) & Co Inc

CUTTERS, GLASS

Barrett (William L)
Black Panther Tool Co
Fletcher-Terry Co

Glaziers' Tool Mfg Co
Heiler (W C) & Co
Karelsen (E) Inc
Marvel Back Mfg Co
Millers Falls Co
National Mirror Works
New England Carbide Tool Co Inc
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
Ridgely Trimmer Co

CUTTERS, INSULATION BOARD

Huther Brothers Saw Mfg Co Inc
Kimball Mfg Co
PEARSON (O) MFG CO
STANLEY TOOLS DIV STANLEY WORKS

CUTTERS, MOULDING

BOICE CRANE CO
Elstrom Carlson & Co
Huther Brothers Saw Mfg Co Inc
MARKWELL MFG CO INC
Shimer (Samuel J) & Sons Inc
STANLEY ELECTRIC TOOL DIV STANLEY WORKS
Taylor-Stiles & Co
Woods (S A) Machine Co

CUTTERS, SHINGLE, ASBESTOS-CEMENT

FLINTKOTE CO
Huther Brothers Saw Mfg Co Inc
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Parsons Iron Slate Co
PEARSON (O) MFG CO
RUBERDID CO
SPECIALTY TOOL MFRS INC
Tri-State Bldg Materials Co Inc

CUTTERS, SIDING, ASPHALT

LaNelle Industries Inc

CUTTERS, TILE

Fletcher-Terry Co
Goldblatt Tool Co
J M J INDUSTRIES INC
MASTIC TILE CORP OF AMERICA
RED DEVIL TOOLS
Selek (Walter E) & Co
Williams Products Co Inc

DAMPERS FOR CEILING DIFFUSER

AIR CONTROL PRODUCTS INC

DAMPERS, FIREPLACE

Adams Co
Allen Steel Products
BENNETT-IRELAND CO
BOSTWICK STEEL LATH CO
CARTER ENGINEERING CO
HATTANGOGA IMPLEMENT & MFG CO
Colonial Fireplace Co
COPCO STEEL & ENGINEERING CO
Covert (H W) Co
Donley Brothers
Gabriel Steel Co
Harris Inc
H & B Mfg Co
HART PRODUCTS DIV STRATTON & TERSTEGGE CO
Industrial Iron Works
KEWANEE MFG CO
MAJESTIC CO
Mesker Brothers
Peerless Mfg Co
Portland Stone Foundry Co
PRICE FIREPLACE HEATER & TANK CORP
SUPERIOR FIREPLACE CO
Swatt (A L) Iron Works
Vestal Stove Co Building Specialties Div

DAMPNPROOFERS

CALBAR PAINT & VARNISH CO
Min wax Co Inc

DAMPNPROOFING COMPOUNDS

Abesto Mfg Corp
Adensite Co
Anti-Hydro Waterproofing Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
CAREY (PHILIP) MFG CO
Cemix Co
Ceresit Waterproofing Corp
Coprox Inc
Donley Brothers
FLINTKOTE CO
Horn (A C) Co Inc
JOHNS-MANVILLE CORP
MIRACLE ADHESIVES CORP
MOORE (GOODLOE) CO
Pabco Products Inc
PITTSBURGH PLATE GLASS CO

Beardon Co
Reilly Tar & Chemical Corp
Rubber & Plastics Compound Co Inc
Sonneborn (L) & Sons Inc
Soray-D Bond Co
Sullivan Co
Trucon Laboratories Div Devco & Reynolds Inc
U S GYPSUM CO
Vita-Var Co
Wilbur & Williams

DECKS, ROOF, METAL

BERGER MFG CO DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CO
FENESTRA BUILDING PRODUCTS
FOLLANSBEE STEEL CORP
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
Macomber Inc
Soule Steel Co
TENNESSEE COAL IRON & RAILROAD CO
TRUSCON STEEL CO DIV REPUBLIC STEEL CORP
U S GYPSUM CO
UNITED STATES STEEL CO
Wheeling Corrugating Co

DECKS, ROOF, PRECAST

CARTER-WATERS CORP
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
OWENS-ILLINOIS GLASS CO
U S GYPSUM CO

DERRICKS

American Hoist & Derrick Co
Clyde Iron Works Inc
Dobbie Foundry & Machine Co
Downs Crane & Hoist Co
Lane Mfg Co
Sasgen Derrick Co

DEVICES, MARKING

Ellison Tool Co
Heiler (W C) & Co
Lowe Bros
Byerson (Joseph T) & Son
Timely Products Co

DEVICES, WIRING

NATIONAL ELECTRIC PRODUCTS CORP
Porcelain Products Inc

DIFFUSERS, AIR

AIR CONTROL PRODUCTS INC
Air Devices, Inc
Anemostal Corp of America
Pyle-National Co Multi-Vent Div

DIGGERS, POST HOLE

American Fork & Hoe Co
Ames Baldwin Working Co
B & B Co
Buda Co
Dicke Toole Co
Disdon (Henry) & Sons Inc
Franklin Equipment Co
Hubbard & Co
Iwan Brothers Inc
Ka-Mo Tools Inc
Leotonia Tool Co
Star Bit & Tool Co
Sterling Foundry Co
True Temper Corp
Warren Tool Corp
Wingsover Mfg Co
Woodings-Verona Tool Works

DISCS, ABRASIVE

Abrasive Products Inc
Albertson & Co Inc
AMERICAN FLOOR SURFACING MACHINE CO
Armour & Co Sandpaper Div
BEHR-MANNING CORP DIV NORTON CO
BLACK & DECKER MFG CO
Broadway Rubber Mfg Co
Clarke Sanding Machine Co
Mid-West Abrasive Co
Poly Products
Rhodes (James H) & Co
Sandpaper Inc
Standard Bronze Co

DISHWASHERS

AMERICAN KITCHENS DIV AVCO MFG CO
AMERICAN RADIATOR & STANDARD SANITARY CORP
APEX ELECTRICAL MFG CO
CROSLLEY DIV AVCO MFG CO
Dishmaid Inc
GENERAL ELECTRIC CO APPLIANCES & MERCHANDISE DEPT
Hobart Mfg Co
HOTPOINT INC
Jackson Dishwasher Co
MULLINS MFG CORP
PROTECTUB INC
Thur Corp
WESTINGHOUSE ELECTRIC CORP APPLIANCE DIV

Manufacturers' Names and Addresses Start on Page D-61
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DISINFECTANTS

Boyle-Midway Inc
Carbolineum Wood Preserving Co
Grassli Chemical Dept DuPont (E I) De
Nemours & Co
Hollingshead (R M) Corp
Koppers Co
Pennsylvania Salt Mfg Co
Puritan Sales Co
SHERWIN-WILLIAMS CO
Secon-Vacuum Oil Co

DOOR BOTTOMS, DRAFT SEAL

Decorite Inc
Dennis (W J) & Co
Durbin Metal Strip Mfg Co
Lloyd Mfg Co
MACLEANBURG-DUNCAN CO
MASTER METAL STRIP SERVICE INC
Monarch Metal Weatherstrip Co
National Guard Products Inc
Sentry Stop A Draft Co
Spartans (A J) Co
Thermal Co
Waterloo Sales Co

DOOR OPERATORS

Bommer Spring Hinge Co Inc
Casement Hardware Co
Chicago Spring Hinge Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Croft Steel Products Inc
Federal Industries Inc
GETTY (H S) & CO INC
Glynn-Johnson Corp
Hardware Products Inc
Harris Inc
Ives (H B) Co
Kaptor (Joseph J) Sales Co
Kolbigs (K) Corp
LFC Closers Inc
LOCKWOOD HARDWARE MFG CO
Newell Mfg Co
New England Mfg & Supply Corp
Norton Door Closer Co
Norwalk Lock Co Div Segal Lock & Hardware Co
Parlier (S) Hardware Mfg Co
RAYNOR MFG CO
Reading Hardware Co
RICHARDS-WILCOX MFG CO
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
SAGER BARROWS DIV YALE & TOWNE MFG CO
SARGENT & ED
SCHLAGE LOCK CO
Segal Lock & Hardware Co Inc
Shirley Spring Hinge Co
Soss Mfg Co
STANLEY WORKS DOOR CONTROL DIV
STERLING HARDWARE MFG CO
WAGNER MFG CO
YALE & TOWNE MFG CO

DOOR OPERATORS, AUTOMATIC

Autosonic Sales Div Vendo Co
BARBER-COLMAN CO
CALDER MFG CO
Cornell Rolling Door Works
Garrett Mfg Co
General Door Mfg Co
GETTY (H S) & CO INC
Kinneer Mfg Co
McKee Door Co
OVERHEAD DOOR CORP
PITTSBURGH PLATE GLASS CO
Quincy Mfg Co
RAYNOR MFG CO
RICHARDS-WILCOX CO
ROBOT APPLIANCES
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
RDWE MFG CO
STANLEY WORKS
Vendo Co
WAGNER MFG CO
Wilson (J G) Corp

DOOR OPERATORS, GARAGE

BARBER-COLMAN CO
CALDER MFG CO
Ctane (H W) Co
CRAWFORD DOOR CO
FRANTZ MFG CO
HOWELL MFG CO
Kinneer Mfg Co
McKee Door Co
OVERHEAD DOOR CORP
RAYNOR MFG CO
RICHARDS-WILCOX CO
ROBOT APPLIANCES INC
RDWE MFG CO
Sterling Electronic Door Control Corp
Vendo Co
WAGNER MFG CO

DOOR SPRINGS

Acumatic Spring Mfg Co
AMERICAN STEEL & WIRE CO
Chicago Spring Hinge Co

CORBIN (P & F) DIV AMERICAN HDWE CORP
Fwale Equipment Mfg Co
FRANTZ MFG CO
Hubbard (M D) Spring Co
Milwaukee Stamping Co
NATIONAL MFG CO
Parker (S) Hardware Mfg Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & ED
STANLEY WORKS
TENNESSEE COAL IRON & RAILROAD CO
Wright Products Inc

DOOR UNITS, WOOD

Litze (Wm R) Co
READY HUNG DOOR CORP

DOORS, ACCESS

Aetna Plywood & Veneer Co
COFFMAN (C B) CO INC
Cole Mfg Co
Columbia Metal Box Co
Dahlstrom Metallic Door Co
Decatur Iron & Steel Co
Donley Brothers
Farley & Loetscher Mfg Co
Fries & Son Steel Construction & Engineering Co
Huttig Mfg Co
Ideal Co
Industrial Iron Works
INLAND STEEL PRODUCTS CO
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
Morgan Co
Rock Island Millwork Co
Simpson Logging Co
Standard Steel Cabinet Co
STEELECRAT MFG CO
UNITED STEEL FABRICATORS INC
Vestal Stove Co Building Specialties Div
Western Foundry Co
Wheeler Oswood Co

DOORS, ASH PIT

Adams Co
BENNETT-IRELAND CO
BOSTWICK STEEL LATH CO
COPCO STEEL & ENGINEERING CO
Covert (H W) Co
Donley Brothers
Gabriel Steel Co
Harris Inc
HEATILATOR INC
Industrial Iron Works
International Steel Co
KEWANEE MFG CO
MAJESTIC CO
Peerless Mfg Co
Swift (A W) Iron Works
TRUSCON STEEL CO DIV REPUBLIC STEEL CORP
Vestal Stove Co Building Specialties Div
Wheeling Corrugating Co
Wilmington Casting Co

DOORS, CABINET & CUPBOARD, WOOD

Aetna Plywood & Veneer Co
American Plywood Corp
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Buffelen Lumber & Mfg Co
Burke Millwork Co
Cole Mfg Co
CURTIS COMPANIES INC
Ess-Wood Corp
Farley & Loetscher Mfg Co
GREGG & SON
Huttig Mfg Co
Ideal Co
Ipik Plywood Corp
IXL Furniture Co
Kinzma Pine Mills Co
Marquart Millwork Co
& M Woodworking Co
Morgan Co
Northwest Door Co
Pacific Mutual Door Co
Phenix Mfg Co
Roach & Musser Mfg Co
Rock Island Millwork Co
RODDIS PLYWOOD CORP
Seneca Lumber & Millwork Co
Silerest Co
Simpson Logging Co
Wisconsin Laminating Co

DOORS, CELLAR, BULKHEAD (METAL)

BILCO CO
HEATILATOR INC

DOORS, CLEANOUT

Adams Co
BENNETT-IRELAND CO
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
Chattanooga Implement & Mfg Co
Colonial Fireplace Co
COPCO STEEL & ENGINEERING CO

Donley Brothers
Gabriel Steel Co
Harris Inc
HEATILATOR CO
INLAND STEEL PRODUCTS CO
International Steel Co
KEWANEE MFG CO
MAJESTIC CO
Mesker Brothers
METAL CRAFTERS
PRICE FIREPLACE HEATER & TANK CORP
Sterling Foundry Co
SUPERIOR FIREPLACE CO
U S Hardware & Mfg Co
Vestal Stove Co Building Specialties Div
Western Foundry Co
Wheeling Corrugating Co

DOORS, COAL CHUTE

Adams Co
Allen Steel Products
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CO
COPCO STEEL & ENGINEERING CO
Decatur Iron & Steel
Donley Brothers
Gabriel Steel Co
Industrial Iron Works
KEWANEE MFG CO
MAJESTIC CO
Mesker Brothers
NATIONAL GYPSUM CO
Peerless Mfg Co
Swift (A L) Iron Works
U S GYPSUM CO
Wheeling Corrugating Co

DOORS, COMBINATION, ALUMINUM

Also Inc
Aluminum Corp of America
CECO STEEL PRODUCTS CO
Compo-Miracle Products Co
Eagle Picher Co
Fineraft Corp
Kaufmann Corp
McKinley (Orman O) Co
RUSSELL (F C) CO
Storm Windows of Aluminum Inc
Weather-Proof Co

DOORS, COMBINATION, STEEL

McKinley (Orman O) Co
RUSSELL (F C) CO
Weather-Seal Inc

DOORS, COMBINATION, WOOD

ANGEL NOVELTY CO
Buffelen Lumber & Mfg Co
Burke Millwork Co
CARR-ADAMS & COLLIER CO
Chamberlin Co of America
Cole Mfg Co
Combination Door Co
Continental Screen Co
CURTIS COMPANIES INC
Farley & Loetscher Mfg Co
GATE CITY SASH & DOOR CO
GREGG & SON
Hemphill (A D) Co
Hines (Edward) Lumber Co
Huttig Mfg Co
LONG-BELL LUMBER CO
Marquart Millwork Co
M & M Woodworking Co
Morgan Co
National Screen Co Inc
National Screen Door Co
Northern Sash & Door Co
Northwest Door Co
Pacific Mutual Door Co
Phenix Mfg Co
Prentice (F W) & Co
Roach & Musser Mfg Co
Robbins Mfg Co
Rock Island Millwork Co
Sehmsaether (F E) Co
Silerest Co The
SIMPSON LOGGING CO
Weather-Seal Inc
Window Conditioning Co

DOORS, FIR

Acme Door Co
Aetna Plywood & Veneer Co
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Buffelen Lumber & Mfg Co
Burke Millwork Co
Cruver-Laughardt Door Co
Farley & Loetscher Mfg Co
GEORGIA-PACIFIC PLYWOOD CO
GREGG & SON
HARBOR PLYWOOD CORP
Lenden Mfg Co
LONG-BELL LUMBER CO
Milwaukee Plywood Co
M & M Woodworking Co
Monarch Door & Mfg Co
Northwest Door Co
Robinson Mfg Co

Rock Island Sash & Door Co
Simpson Logging Co
Spokane Sash & Door Co
U S PLYWOOD CORP
Washington Door Co
Western Door & Plywood Corp
Woodward Lumber Co

DOORS, FIRE

AETNA STEEL PRODUCTS CORP
AMERICAN WELDING & MFG CO
Cornell Rolling Door Works
Dahlstrom Metallic Door Co
Diebold Inc
Edwards Co Inc
FENESTRA BUILDING PRODUCTS
Fox Bros Mfg Co
Harris Preble Fire Doors Inc
International Fireproof Door Co
International Steel Co
Kinneer Mfg Co
Mesker Bros
Protexal Corp
RICHARDS-WILCOX CO
RODDIS PLYWOOD CORP
St Louis Fire Door Co
Sotale Steel Co
Syracuse Fire Door Corp
UNITED STEEL FABRICATORS INC
U S PLYWOOD CORP
VIRGINIA METAL PRODUCTS CORP
Willis Mfg Co Inc
Wilson (J G) Corp

DOORS, FLEXIBLE & FOLDING

American Bamboo Corp
Curtillon Co
Holecomb & Hoke Mfg Co Inc
HOUGH SHADE CORP
NEW CASTLE PRODUCTS CO
Orchard Brothers Inc
RICHARDS-WILCOX CO
ROLSGREEN CO
Smith (F P) Wire & Iron Works Inc
TRUSCON STEEL CO DIV REPUBLIC STEEL CORP

DOORS, FLUSH, WOOD

Aetna Plywood & Veneer Co
American Plywood Corp
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Braund (W R) Co
Carnahan Mfg Co
CARR-ADAMS & COLLIER CO
Culler Furnitures Co Door Div
CURTIS COMPANIES INC
Davis Plywood Corp
Elliott Bay Mill Co
Ess-Wood Corp
Farley & Loetscher Mfg Co
Future Products Inc
General Plywood Corp
GEORGIA-PACIFIC PLYWOOD CO
GREGG & SON
Hardware Products Co
HASKELITE MFG CORP
HIGGINS INC
Huttig Mfg Co
Hyke-Murphy Co
Ipik Plywood Corp
Kennedy (J G) Lumber Co
Kochton Plywood & Veneer Co
Kochton Building Products
LONG-BELL LUMBER CO
Litze (Wm E) Co
MENDEL CO
Michigan Door Co
Midwest Plywood Co
Milwaukee Plywood Co
M & M Woodworking Co Resprent Div
Mohawk Flush Doors Inc
Morgan Co
Mussman & Shafer Inc
Northern Sash & Door Co
Northwest Door Co
PAINE LUMBER CO
Peterson (J C) Co
Plywood & Door Sales Corp
Plywoods-Plastics Corp
Rock Island Millwork Co
RODDIS PLYWOOD CORP
Silerest Co
Simpson Logging Co
THOMASON PLYWOOD CORP
U S PLYWOOD CORP
Walled Lake Door Co
Weisberg-Baer Co
Wisconsin Door Co

DOORS, GARAGE, METAL

Blaw-Knox Div Blaw-Knox Co
Compo-Miracle Products Co
FENESTRA BUILDING PRODUCTS
FRANTZ MFG CO
Hollister Coil Spring Mfg Co
International Steel Co
Kinneer Mfg Co
MORRISON STEEL PRODUCTS INC
OVERHEAD DOOR CORP
Pioneer Co
Stamping Prods & Mfg Co Steel Door Div
STEEL DOOR CORP
STRAND GARAGE DOOR DIV DETROIT STEEL PRODUCTS
Taylor (L S) Mfg Co
Taylor (R L) Inc
Tit-A-Door Corp
UNITED STEEL FABRICATORS INC
Wilson Foundry & Machine Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

▶ DOORS, GARAGE, WOOD

BARBER-COLMAN CO
Buffelen Lumber & Mfg Co
Burke Millwork Co
CALDER MFG CO
Capital Products Co
CARR ADAMS & COLLIER CO
Commander Door Inc
CRAWFORD DOOR CO
CURTIS COMPANIES INC
Farley & Loetscher Mfg Co
FRANTZ MFG CO
General Door Mfg Co
GEORGIA-PACIFIC PLYWOOD CO
Hall Enterprises
HARBOR PLYWOOD CORP
Kaiser Metal Products Co
LONG BELL LUMBER CO
Louden Machinery Co
Marquart Millwork Co
Mauk Seattle Lumber Co
McKee Door Co
M & M Woodworking Co
North Plywood Inc
Northwest Door Co
OVERHEAD DOOR CORP
RAYNOR MFG CO
RICHARDS-WILCOX CO
Roach & Musser Mfg Co
Rock Island Millwork Co
RODDIS PLYWOOD CORP
Silerest Co
Simpson Logging Co
STANLEY WORKS GARAGE HARDWARE
DEPT
Starline Inc
U S PLYWOOD CORP

▶ DOORS, GARAGE, UPWARD ACTING, METAL

CALDER MFG CO
Clark Door Co Inc
FENESTRA BUILDING PRODUCTS
FRANTZ MFG CO
K-D GARAGE DOOR SALES
MORRISON STEEL PRODUCTS CO
OVERHEAD DOOR CORP
Pioneer Co
Stamping Products & Mfg Co Steel Door
Div
STRAND GARAGE DOOR DIV DETROIT
STEEL PRODUCTS CO
Taylor (L S) Mfg Co
Wilson (J G) Corp

▶ DOORS, GARAGE, UPWARD ACTING, WOOD

Acme Door Co
BARBER-COLMAN CO
Better-Bilt Door Co
Buffelen Lumber & Mfg Co
Burke Millwork Co
Capital Products Co
CARR ADAMS & COLLIER CO
Commander Door Inc
CRAWFORD DOOR CO
CURTIS COMPANIES INC
Davis Plywood Corp
Essential Products Corp
Farley & Loetscher Mfg Co
FRANTZ MFG CO
GEORGIA PACIFIC PLYWOOD CO
Hall Enterprises
HARBOR PLYWOOD CORP
Harris Inc
M & M Woodworking Co
Marquart Millwork Co
Morgan Overhead Door Co
NATIONAL MFG CO
Northwest Door Co
OVERHEAD DOOR CORP
Overhead Door Div United Products Co
Pacific Mutual Door Co
Pueble Co Inc
Phenix Mfg Co
RAYNOR MFG CO
RICHARDS-WILCOX CO
Roach & Musser Mfg Co
Rock Island Millwork Co
Rose Mfg Co
ROWE MFG CO
Silerest Co
Simpson Logging Co
Starline Inc
WAGNER MFG CO
Washington Door Co
WEL-BILT PRODUCTS CO
Western Door & Plywood Corp

▶ DOORS, GLASS

ANGEL NOVELTY CO
Arcadia Metal Products Inc
Bache (Simon) & Co
Hagemann Cos Inc
Huttig Sash & Door Co
LIBREY-OWENS-FORD GLASS CO
LUDMAN CORP
National Mirror Works
Northwest Door Co
PITTSBURGH PLATE GLASS CO
Safetee Glass Co
Sehacht Associates Inc
Sogelke & Kohlhaus Co
Ehower Door Co of America

▶ DOORS, HARDWOOD

Aetna Plywood & Veneer Co
American Plywood Corp
American Sash & Door Co

ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Braund-Harmon Co
Braund (W B) Co
Buffelen Lumber & Mfg Co
Carnahan Mfg Co
CURTIS COMPANIES INC
Davis Plywood Corp
Dyke Brothers
Eco-Wood Corp
Farley & Loetscher Mfg Co
General Plywood Corp
GEORGIA-PACIFIC PLYWOOD CO
HASKELITE MFG CORP
Huttig Mfg Co
Hyde-Murphy Co
Ideal Co
Ipik Plywood Corp
Letraeco Building Products
Marquart Millwork Co
WENDEL CO
Michigan Door Co.
Morgan Co
Mussman & Shafer Inc
Northern Sash & Door Co
PAINE LUMBER CO LTD
Phillips-Rhyme Lumber Co
Rock Island Millwork Co
RODDIS PLYWOOD CORP
Silerest Co
THOMASON PLYWOOD CORP
U S PLYWOOD CORP
Walled Lake Door Co
Wisconsin Door Co

▶ DOORS, LAUNDRY CHUTE

AIR CONTROL PRODUCTS INC
Allen Steel Products
COPCO STEEL & ENGINEERING CO
Donley Brothers
Gabriel Steel Co
Ideal Cabinet Corp Div of Des Lauriers
Column Mould Co Inc
Kluegel (Ernest) & Co
MIAMI CABINET DIV CAREY (PHILIP) CO

▶ DOORS, LOUVRE, WOOD

CARR ADAMS & COLLIER CO
CURTIS COMPANIES INC
Farley & Loetscher Mfg Co
Morgan Co
PROTECT-O-JALOUSIE CORP
Silerest Co
WEL-BILT PRODUCTS CO

▶ DOORS, METAL

AETNA STEEL PRODUCTS CORP
American Sheet Metal Works
AMERICAN WELDING & MFG CO
Bayler (William) Co
BILCO CO
Bjort & Carlough Co
CECO STEEL PRODUCTS CORP
Cornell Rolling Door Works
Crittall Inc
Croft Steel Products Inc
Dahlstrom Metallic Door Co
Deatur Iron & Steel Co
Demay & Associates
Diebold Co Inc
Edwards Co Inc
FENESTRA BUILDING PRODUCTS
FLYNN (MICHAEL) MFG CO
Harris Prohle Fire Doors Inc
HOPE'S WINDOWS INC
International Plywood Door Co
International Steel Co
KAWNEER CO
Kinneair Mfg Co
Mahon (R C) Co
MARNET CORP
Mesker Bros
Milwaukee Stamping Co
Newman Brothers Inc
Pueble Co Inc
RICHARDS-WILCOX CO
Richmond Fireproof Door Co
RUSSELL (F C) CO
Smith (F P) Wire & Iron Works Inc
Soothe Steel Co
STEELCRAFT MFG CO
Stewart Iron Works Inc
THORN (J S) Co
Truline Development
TRUSCON STEEL CO DIV REPUBLIC STEEL
CORP
UNITED STEEL FABRICATORS INC
VIRGINIA METAL PRODUCTS CORP
Weather-Proof Co
Williamsburg Steel Products Co
Wilson (J G) Corp

▶ DOORS, PLYWOOD

Aetna Plywood & Veneer Co
American Plywood Corp
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Braund (W B) Co
Buffelen Lumber & Mfg Co
CURTIS COMPANIES INC
Davis Plywood Corp
GEORGIA-PACIFIC PLYWOOD CO
HIGGINS INC
Huttig Mfg Co
Ipik Plywood Corp
LONG-BELL LUMBER CO
Mauk Seattle Lumber Co

WENDEL CO
Pacific Mutual Door Co
Plywood-Plastics Corp
Silerest Co
Simpson Logging Co
Weisberg-Baer Co
U S PLYWOOD CORP

▶ DOORS, PONDEROSA PINE

CARR ADAMS & COLLIER CO
Cole Mfg Co
CURTIS COMPANIES INC
Farley & Loetscher Mfg Co
GREGG & SON
Hines (Edward) Lumber Co
Huttig Mfg Co
Ideal Co
LONG-BELL LUMBER CO
Morgan Co
Mussman & Shafer Inc
Northern Sash & Door Co
Rock Island Millwork Co
Silerest Co
Spokane Sash & Door Co

▶ DOORS, PREFIT

Buffelen Lumber & Mfg Co
Burke Millwork Co
Cruver-Langhards Door Co
Farley & Loetscher Mfg Co
Ideal Co
Ipik Plywood Corp
LONG-BELL LUMBER CO
Lutze Wm R Co
PAINE LUMBER CO LTD
Silerest Co
Simpson Logging Co

▶ DOORS, REVOLVING

GENERAL BRONZE CORP
International Steel Co
Michaels Art Bronze Co
Revolvador Corp

▶ DOORS, SCREEN, WOOD FRAME

ALUMATIC CORP OF AMERICA
American Sash & Door Co
ANGEL NOVELTY CO
Barnhart (A W) Co
Burke Millwork Co
CARR ADAMS & COLLIER CO
Chamberlin Co of America Inc
COFFMAN (R G) CO INC
Cole Mfg Co
Continental Screen Co
CROSSETT LUMBER CO
Crown Shade & Screen Co
CURTIS COS INC
Dennis (W J) & Co
Farley & Loetscher Mfg Co
Fordyce-Crossett Lumber Co
General Woodcraft Co
GREGG & SON
Hemphill (A D) Co
Holister Coil Spring Mfg Co
Huttig Mfg Co
Huttig Sash & Door Co
Ideal Co
KEYSTONE WIRE CLOTH CO
Kinzie Pine Mills Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Morgan Sash & Door Co
National Screen Co Inc
National Screen Door Co
Northern Sash & Door Co
Northwest Door Co
Orange Screen Co
Pacific Mutual Door Co
Phenix Mfg Co
Prentice (F W) & Co
Roach & Musser Co
Robbins Mfg Co
Robinson Mfg Co
Rock Island Millwork Co
RUSSELL (F C) CO
Schumacher (F E) Co
Seneca Lumber & Millwork Co
Silerest Co
Spokane Sash & Door Co
Universal Fabricators
Weather-Proof Co
WEL-BILT PRODUCTS CO
West Coast Screen Co
White Pine Sash Co

▶ DOORS, SHOWER

American Extruded Products Co
BINSWANGER & CO
California Shower Door Co
FIAT METAL MFG CO
Glass Shower Door Co
Ketcham (G M) Mfg Corp
Lehman Sprayshield Co
Milwaukee Stamping Co
National Metal-Art Mfg Co
National Mirror Works
PITTSBURGH PLATE GLASS CO
Safetee Glass Co
Shower Door Co of America
Windsor Shower Door Co

▶ DOORS, SIDEWALK

Adams Co
BILCO CO
Edwards Mfg Co
Fries & Son Steel Construction & Engineering
Co
Logan Co
METAL CRAFTERS

▶ DOORS, SLIDING, RESIDENTIAL

Accurate Metal Weatherstrip Co
AETNA STEEL PRODUCTS CORP
AMERICAN STEEL DOOR CO
AMERICAN WELDING & MFG CO
Arcadia Metal Products Co
Bayler (William) Co
Better-Bilt Door Co
Buffelen Lumber & Mfg Co
Cole Mfg Co
CURTIS COMPANIES INC
Dortho Mfg Co
Eco-Wood Corp
EZ-WAY SALES INC DIV OF MINNESOTA
WOOD SPECIALTIES INC
Farley & Loetscher Mfg Co
GLIDE WINDOWS INC
Ideal Co
Ipik Plywood Corp
Knappe & Vogt Mfg Co
LONG-BELL LUMBER CO
MALIBU MFG CORP
METAL PRODUCTS CORP
M & M Woodworking Co
Morgan Co
Nasco Wood Products Inc
National Door Co
NORDAHL CO
NOVA SALES CO
Orchard Mfg Co
Rock Island Millwork Co
Silerest Co
SLIDE-VIEW STEEL DOOR & WINDOW CO
STEELCRAFT MFG CO
TRUSCON STEEL CO
U S Sliding Door Corp
U S PLYWOOD CORP
UNITED STEEL FABRICATORS INC
VIRGINIA METAL PRODUCTS CORP
Vista Sliding Sash Co
WEL-BILT PRODUCTS CO
WOODALL INDUSTRIES

▶ DOORS, SOFTWOOD

Aetna Plywood & Veneer Co
American Sash & Door Co
ANGEL NOVELTY CO
ATLAS PLYWOOD CORP
Cole Mfg Co
CURTIS COS INC
Dyke Brothers
Farley & Loetscher Mfg Co
HARBOR PLYWOOD CORP
Huttig Mfg Co
Huttig Sash & Door Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Mauk Seattle Lumber Co
M & M Wood Working Co
Morgan Co
Northern Sash & Door Co
Northwest Door Co
Pacific Mutual Door Co
Products-From-Sweden Inc
Roach & Musser Co
Robinson Mfg Co
Rock Island Millwork Co
Silerest Co
Simpson Industries Inc
U S PLYWOOD CORP

▶ DOORS, ROLLING, STEEL

Cornell Rolling Door Works
Kinneair Mfg Co
Lawrence Steel Co
Mahon (R C) Co

▶ DOORS, ROLLING, WOOD

Cornell Rolling Door Works
Kinneair Mfg Co
Silerest Co

▶ DOORS, STORM, WOOD & METAL

Also Inc
Anderson (V E) Mfg Co
ANGEL NOVELTY CO
BUCKEYE SCREEN & WEATHERSTRIP CO
Buffelen Lumber & Mfg Co
Burke Millwork Co
CARR ADAMS & COLLIER CO
Chamberlin Co of America
Cole Mfg Co
Compo-Miracle Products Co
CURTIS COMPANIES INC
Eagle Picher Co
Farley & Loetscher Mfg Co
GREGG & SON
Hemphill (A D) Co
Hines (Edward) Lumber Co
Holister Coil Spring Mfg Co
Huttig Mfg Co
LONG-BELL LUMBER CO
Marquart Millwork Co
M & M Woodworking Co
Morgan Co
Northwest Door Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Phenix Mfg Co
Prentice (F W) & Co
Robbins Mfg Co
Rock Island Millwork Co
RUSSELL (F C) CO
Schumacher (F E) Co
Silerest Co
Spokane Sash & Door Co
Weather-Proof Co
WEATHER-SEAL INC
Wiesler-Osgood Co
White Pine Sash Co
Window Conditioning Co

► DRAINS, FLOOR

Allen Steel Products
Covert (H W) Co
Dunley Brothers
Industrial Iron Works
KEWANEE MFG CO
Louden Machinery Co
MAJESTIC CO
Robinson Clay Product Co
Syracuse Alloy Metals Corp
Vestal Stone Co
Zurn (J A) Mfg Co

► DRAINS, ROOF

BARRETT DIV ALLIED CHEMICAL & DYE CORP
Industrial Iron Works
Robinson Clay Product Co
Zurn (J A) Mfg Co

► DRESSERS, GRINDING WHEEL

Atkins (E C) Div Borg Warner Corp
BEHR-MANNING CORP DIV NORTON CO
CALOR MFG CO
Ideal Industries Inc

► DRILL PRESSES

ATLAS PRESS CO
BOICE CRANE CO
Champion Blower & Forge Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
Walker-Turner Co Div Kearney & Trecker Corp

► DRILLS, BRICK, CONCRETE, TILE

Ackerman-Johnson Co
Arro Expansion Bolt Co
BLACK & DECKER MFG CO
Bucabel Tool Mfg Co
Carboloy Inc
Chicago Expansion Bolt Co
Chicago Pneumatic Tool Co
Danaettes Steel Products Corp
Gardner-Denver Co
Holub Industries Inc
Kennametal Inc
Krautter & Co Inc
WALL TOOL CO
Mephisto Tool Co Inc
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
New England Carbide Tool Co
PAINE CO
Proto Tool Co
Rainey-Tools
Ray-Imp Co Inc Industrial Div
RED DEVIL TOOLS
STANLEY TOOLS DIV STANLEY WORKS
Star Expansion Products Inc
Super Tool Co
SYNTRON CO
Tilden Tool Mfg Co
Vaughan & Bushnell Mfg Co
Vulcan Tool Mfg Co
Warwood Tool Co
Wodack Electric Tool Corp

► DRILLS, ELECTRIC, PORTABLE

Albertson & Co Inc
BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
Chicago Pneumatic Tool Co
Cincinnati Electrical Tool Div Le Blond (R K) Machine Tool Co
Clarke Sanding Machine Co
CUMMINS PORTABLE TOOLS DIV CUMMINS-CHICAGO CORP
Denver Floor & Safety Supply Co
DREMEL MFG CO
FASCO INDUSTRIES INC
INDEPENDENT PNEUMATIC TOOL CO
Kett Tool Co
Knapp-Monarch Co
Louisville Electric Mfg Co
WALL TOOL CO
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
Mismar Mfg Co Inc
Portable Electric Tool Inc
PORTER CABLE MACHINE CO
R C S TOOL SALES CORP
SKIL CORP
Speedway Mfg Co
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
SYNTRON CO
Tilden Tool Mfg Co
Wallace (J D) & Co
Wodack Electric Tool Corp

► DRILLS, GLASS

Barrett (William L)
RED DEVIL TOOLS

► DRILLS, RIGHT ANGLE, ELECTRIC

BLACK & DECKER MFG CO
MILWAUKEE ELECTRIC TOOL CORP

► DRILLS, WELL

BUCYRUS-ERIE CO
Consolidated Industries
Ka-Mo Tools Inc

► DRILLS, WOOD

Cleveland Twist Drill Co
Deuse (E W) Co
Forest City Bit & Tool Co
Garner (R D) Co Inc
Graham (John H) & Co Inc
Greenfield Tap & Die Corp
Greenlee Tool Co
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO
MILWAUKEE ELECTRIC TOOL CORP
STANLEY TOOLS DIV THE STANLEY WORKS
Star Bit & Tool Co
Syracuse Twist Drill Co
Union Twist Drill Co

► DRIVERS, & FASTENERS, CARTRIDGE ACTUATED TYPE

Mine Safety Appliances Co
Powder Power Tool Co
RAMSEY FASTENERS INC
REMINGTON ARMS CO INC

► DRIVERS, GLAZIER'S POINT

Fletcher Terry Co
Glazier's Tool Mfg Co
RED DEVIL TOOLS
Sommer & Maca Glass Machinery Co

► DRIVERS, STEEL POST

AMERICAN STEEL & WIRE CO
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
KEYSTONE STEEL & WIRE CO
Mid-States Steel & Wire Co
Northwestern Steel & Wire Co
Sweet's Steel Co

► DROP CLOTHS

American Ladder Co
American Tent & Awning Co
Bemis Brothers Bag Co
Clifton Mfg Co
DANIELS (C R) INC
Fulton Bag & Cotton Mills
May (D C) Co
New York Drop Cloth Mfg Co Inc
Standard Awning Co
Textile Industries Inc
Werner Canvas Products Co

► DRYERS, AIR

Attanugiun Clay Co
Bailey Lumber Co
Dow Chemical Co
Frigidaire Division General Motors Corp
GENERAL AIR CONDITIONING CORP
Lansdowne & Moody
Peire-Phelps
Puritan Sales Co
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP
Stewart Warner Corp
Tamm Industries Inc
Union Mfg & Gauge Co

► DRYERS, CALCIUM CHLORIDE

COLUMBIA CHEMICAL DIV PITTSBURGH PLATE GLASS CO
Dow Chemical Co
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP
Tamm Industries Inc

► DUCTS, ALUMINUM

KAISER ALUMINUM & CHEMICAL SALES INC
WILLIAMSON HEATER CO

► DUCTS, HEATING NON-METALLIC

AIRTEMP DIV CHRYSLER CORP
CAREY (PHILIP) MFG CO
JOHNS-MARVILLE CORP
SONOCO PRODUCTS CO
Universal Concrete Pipe Co Inc

► DUCTS, SHEET METAL

Continental Steel Corp
INLAND STEEL PRODUCTS CO
MAJESTIC CO
MUELLER (L J) FURNACE CO
REYNOLDS METALS CO BUILDING PRODS DIV
WILLIAMSON HEATER CO

► DUMPS, ASH, FIREPLACE

Adams Co
Allen Steel Products
BENNETT-IRELAND CO
BOSTWICK STEEL LATH CO
Colonial Fireplace Co
CORCO STEEL & ENGINEERING CO
Covert (H W) Co
Dunley Brothers
Gabriel Steel Co
Harris Inc
HEATILATOR INC
Industrial Iron Works
KEWANEE MFG CO
MAJESTIC CO
Price-Evans Foundry Corp
SUPERIOR FIREPLACE CO
Vestal Stone Co Building Specialties Div

► DYES, CEMENT

Flexrock Co
Horn (A C) Co
Tamm Industries Inc
Truson Laboratories Div Deroe & Reynolds Co

► EDGES, METAL ROOF

Alabama Metal Lath Co
Allen Steel Products
BERGIC DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
Continental Steel Corp
Gary-Pioneer Steel Corp
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
Kaiser Mfg Co
New Holland Metals Co
Potts-Farrington Co
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co

► EDGERS, FLOOR, SANDING

AMERICAN FLOOR SURFACING MACHINE CO
Clarke (Alex A) Mfg Co
Clarke Sanding Machine Co
Detroit Surfacing Machine Co
Florhoss-Habit Co
Goldblatt Tool Co
Hilger Co
Holt Mfg Co
Lincoln-Schluster Floor Machine Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
SKIL CORP

► ELECTRIC PUSH BUTTONS

CORBIN (P & F) DIV AMERICAN HARDWARE CORP
LOCKWOOD HARDWARE MFG CO
NUTONE INC
Skillman Hardware Co

► ELEVATORS, HAND POWER

Barrett-Cravens Co
Energy Elevator Co
Market Forge Co
Sidney Elevator Mfg Co

► ELEVATORS, RESIDENCE

Chelsea Elevator Co
Inclinator Co of America
Kimball Brothers Co
Otis Elevator Co
Sedgewick Machine Works
Shepard Elevator Co

► ENCLOSURES, UNIT KITCHEN, METAL, FOLDING

Orehard Brothers Inc

► ENGINES, DIESEL

ALLIS-CHALMERS MFG CO
Buda Co
Caterpillar Tractor Co
Cleveland Diesel Engine Div General Motors Corp
Cummins Engine Co
Fairbanks Morse & Co
GMC Truck & Coach Div General Motors Corp
HANNSCHFEGER CORP
Hill Diesel Engine Co
International Harvester Co
Nordberg Mfg Co
OLIVER CORP
Waukesha Motor Co
Witte Engine Works Div Oil-Well Supply Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT DIV

► ENGINES, GASOLINE

ALLIS-CHALMERS MFG CO
Briggs & Stratton Corp
Buda Co
Fairbanks Morse & Co
Fuller & Johnson Mfg Co
HOMELITE CORP
International Harvester Co
KOHLER CO
Master Woodworker Mfg Co
Novo Engine Co
OLIVER CORP
Ready-Power Co
Salisbury Motors Div Wayne Mfg Co
Universal Motor Co
Waukesha Motor Co
WESTINGHOUSE ELECTRIC CORP
Witte Engine Works Div Oil-Well Supply Co

► ENTRANCES, DOOR

AETNA STEEL PRODUCTS CORP
Burke Millwork Co
Cameron (Wm) & Co Inc
CARR ADAMS & COLLIER CO
CURTIS COB INC
Farley & Loetscher Mfg Co
GREGG & SON
HEATILATOR INC
Huttig Mfg Co
Ideal Co
KAWNEER CO
LONG-BELL LBR CO
M & M Mfg Co
Margan Co
Roach & Muser Mfg Co
Rock Island Millwork Co
Silerest Co
Simpson Logging Co
Spokane Sash & Door Co

► ENTRANCES, STORE, METAL

Apex Brass & Bronze Works
Badger Wire & Iron Works Inc
Dahlstrom Metallic Door Co
International Steel Co
KAWNEER CO
Newman Bros Inc

► EQUIPMENT, BARBECUE

Adelphia Mill
BENNETT-IRELAND CO
Dunley Bros
GRILLCRAFT CO
Industrial Iron Works
MAJESTIC CO
Master Metal Prods Inc
Ohio Stone Co
Southern Barbecue Grill Co
Wiemann (Ernest) Iron Works

► EQUIPMENT, BARN

Advance Car Mover Co
Badger Corrugating Co
Berg Equipment Corp
Butler Mfg Co
Clay Equipment Corp
Coburn Mfg Co
Franklin Equipment Co
Gardner Mfg Co
General Implement Corp
Goshen Mfg Co
Green Mfg Co
Hudson (H D) Mfg Co
Hummer Mfg Co
James Mfg Co
Logan Co
Louden Machinery Co
Milwaukee Hay Tool Co
Mitchell Mfg Co
Myers (F E) & Brother Co
NATIONAL MFG CO
Ney Mfg Co
Olson Mfg Co
Sioux Steel Co
Starline Inc

► EQUIPMENT, FARM

Advance Car Mover Co
Aerovent Fan Co
Air Devices Inc
ALLIS-CHALMERS MFG CO
American Blower Co
American-Larsen Ventilating Co
Arax Co
Badger Corrugating Co
Bastian-Blasting Co
Beatrice Steel Tank Mfg Co
Bell (C S) Co
BENNETT-IRELAND INC
Broyer Bros Whiting & Co
Brower Mfg Co
Buffalo Forge Co
Butler Mfg Co
Case (J I) Co
Celina Mfg Co
Century Electric Co
Clay Equipment Co
Coburn Mfg Co
Cohn (E) & Sons
Columbian Steel Tank Co
Continental Steel Corp
Deere & Co
Dempsier Mill Mfg Co
Des Moines Steel Tank Co
Diehl Mfg Co Electrical Div Singer Mfg Co
Edwards Mfg Co
Electric Wheel Co
Fairbanks Morse & Co
Farley & Loetscher Mfg Co
Farquhar (A B) Co
Gehl Bros Mfg Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

GENERAL ELECTRIC CO AIR CONDITION-

ING DEPT
General Implement Corp
Goshen Mfg Co
Guard-I Mfg Co
Hargrove Co
Hastings Equity Grain Bin Mfg Co
Hemphill (A D) Co
Hudson (H D) Mfg Co
Hig Electric Ventilating Co
INLAND STEEL PRODUCTS CO
International Harvester Co
James Mfg Co
Kalamazoo Tank & Silo Co
King Company
Klauer Mfg Co
La Crosse Steel Rolling & Corrugating Co
Lockjoint Wood Prods Co
Louden Machinery Co
Lyon Conklin & Co
Massey Harris Co Inc
Milwaukee Hay Tool Co
Moline Iron Works
Mundie Mfg Co
Myers (F E) & Bro Co
Ney Mfg Co
Olson Mfg Co
Pape Machine Co
Patch (A H) Inc
Peerless Electric Co
PITTSBURGH PLATE GLASS CO
Queen Stove Works
Rapid Machinery Co
Robinson Clay Product Co
Robinson Ventilating Co
Rudens (N H) Co
Sargent-Bond Mfg Corp
Shaw (H C) Co
SNEPLER MFG CO
Sioux Steel Co
Starline Inc
Super Structures Inc
Sweet (A L) Iron Works
Swift Mfg Co
Trumbull Electric Mfg Co
U R Challenge Co
Universal Blower Co
Universal Holst & Mfg Co
Ward (Edgar T) Co
WESTINGHOUSE ELECTRIC CORP ELEC-
TRIC APPLIANCE DIV
White's (S B) Sons Inc
Williams Mill Co Inc
Willis Steel Corp

EQUIPMENT, FIREPLACE

Adams Co
Atlanta Stove Works
Barthart (A W) Co
BERNETT-IRLAND CO
Builder's Fireplace & Supply Co
Chamberlin Co of America Inc
CHATTANOOGA IMPLEMENT & MFG CO
Colonial Brass Co
Colonial Fireplaces Co
Covert (H W) Co
Donley Bros
Fox Valley Forge
HART PRODUCTS DIV STRATTON &
TERSTEGGE CO
HEATILATOR INC
Howes (S M) Inc
Industrial Iron Works
Logan Co
MAJESTIC CO
METAL CRAFTERS
Meyers (Fred L) Mfg Co
OHIO FOUNDRY & MFG CO
Peerless Manufacturing Co
Pioneer Co
READYBUILT PRODUCTS CO
Screenercraft Co
Sheffield Manufacturing Co
Smith (F P) Wire & Iron Works
Smith (John P) Co
Thermo-Rite Manufacturing Co
Vestal Stove Co
WICKWIRE SPENCER STEEL DIV COLO-
RADO FUEL & IRON CORP

EQUIPMENT, HOG

Beatrice Steel Tank Mfg Co
Bernard (Phillip) Co
Brower Mfg Co
Celina Manufacturing Co
Clay Equipment Corp
Clearwater Tank Co
Franklin Equipment Co
Hargrove Company
Hastings Equity Grain Bin Manufacturing Co
Hudson (H D) Manufacturing Co
James Manufacturing Co
Keen (F D) Mfg Co
Louden Machinery Co
Martin Steel Prods Co
Ney Manufacturing Co
Olson Manufacturing Co
Red Cross Manufacturing Co
Sioux Falls Metal Culvert Co
Starline Inc

EQUIPMENT, POULTRY

Adams-Thuma Co
Aeroli Products Co, Inc
American Incubators Inc
American Line
Anderson Bros Co
Baltimore Paper Box Co
Beatrice Steel Tank Manufacturing Co
Bromwell Wire Goods Co
Brower Manufacturing Co
Buschery Incubator Co
Close-To-Nature Co
Cyclone Manufacturing Co

GENERAL ELECTRIC CO AIR CONDITION-

ING DEPT
Ezrel Metal Cabinet Co Inc
Ezrelator Steel Manufacturing Co
GENERAL ELECTRIC CO AIR CONDITION-
ING DEPT
General Implement Corp
Green Lumber Co
Harder Silo Co
Heller-Aller Co
Hopson (W C) Co
Hudson (H D) Manufacturing Co
James Manufacturing Co
JOHNS-MANVILLE CORP
Keen Equipment Co Inc
Klein Manufacturing Co
Lancaster Mfg Co
Leahy Mfg Co
Lyon Rural Electric Co
Macomb Steel Products Co
Miller (J W) Co
National Ideal Co
National Mfg & Stamping Co
New Era Equipment Co
Oakes Mfg Co
Ohio Stove Co
Paragon Utilities Corp
Perfection Store Co
Petalamo Electric Incubator Co
Purifoy Products Inc
Queen Incubator Co
Quinn Wire & Iron Works
Reliable Incubator & Brooder Co
SILCO LAMINATED PRODUCTS INC
Royal Manufacturing Co
Sheer (H M) Co
Simplex Brooder Store Co
Starline Inc
Sure-Hatch Incubator Co
TIMBER STRUCTURES INC
Trumbull Electric Mfg Co
United Steel & Wire Co
Unit Structures Inc
Wabash Paper Box Co
Western Stoneware Co
White Manufacturing Co

ESCAPES, FIRE

ARTCRAFT ORNAMENTAL IRON CO
Badger Wire & Iron Works Inc
BELSON MFG CO
Davy Automatic Fire Escape Co
General Detroit Corp
Grand Rapids Wire Products Co
Logan Co
MESKER (GEORGE L) STEEL CORP
METAL CRAFTERS
ST PAUL FOUNDRY & MANUFACTURING
CO
Smith (F P) Wire & Iron Works

ESTIMATING SERVICES

Miller-Diehl Co
REMINGTON RAND INC
Tamblin Systems
Underwood Corp

FABRICATORS, LUMBER

Cooperative Industries
Hardboard Fabricators
Pacific Board Fabricators
TIMBER ENGINEERING CO
WEYERHAEUSER SALES CO
WOODALL INDUSTRIES INC

FABRIC, REINFORCING

Forbes Steel Corp
Northwestern Steel & Wire Co
PITTSBURGH STEEL PRODUCTS CO
TRUSCON STEEL CO DIV REPUBLIC STEEL
CORP

FANS, EXHAUST, WALL & CEILING, ATTIC & KITCHEN

Aecme Equipment Co
Aerovent Fan Co
Airmaster Corp
Air Temperature Inc
American Blower Corp
AMERICAN CENTRAL DIVISION AVCO MFG
CO
American Coolair Corp
Arex Co
Autorent Fan & Blower Co
Bar-Brook Mfg Co
Berne Mfg Co
BIGLIN (H C) CO INC
Broan Mfg Co Inc
Buffalo Forge Co
C & H Air Conditioning Fan Co
CAREY (PHILIP) MFG CO
Champion Blower & Forge Co
Chelsea Fan & Blower Co
Circulators & Devices Mfg Co
Clorage Fan Co
COLEMAN CO
COOK (LOREN) CO
CROSLEY DIV AVCO MFG CO
Dayton Electric Mfg Co
De Bothez Fans Div American Machine & Metals Inc
Diehl Mfg Co Electrical Div Singer Mfg Co
Eagle Pieber Co
EMERSON ELECTRIC MFG CO
FASCO INDUSTRIES INC
General Blower Co
GENERAL ELECTRIC CO APPARATUS DEPT

HERMAN NELSON
Holcomb & Hume Mfg Co
Hudson (H D) Mfg Co
HUNTER FAN & VENTILATING CO
HUNTINGTON INDUSTRIES INC
Hig Electric Ventilating Co
Industries Inc
International Engineering Inc
James Mfg Co
LAU BLOWER CO
Lorenz Mfg Co
Machlizer-Cummins Co
MIAMI CABINET DIV CAREY (PHILIP)
MFG CO
MURRAY CO OF TEXAS
National Appliance Co
National Gas Equipment Co Inc
Ney Mfg Co
NUSTONE INC
Peerless Electric Co
Propellare Inc
PRYME & CO INC
Reed Unit-Fans Inc
Robbins & Myers Inc
Russell Electric Co
Samson-United Corp
Schwitzer-Cummins Co
Sheet Metal Products Co
SHEPLER MFG CO
Shreveport Engineering Co
Signal Electric Co
SIR-JIM PRODUCTS CO
Spartan Electric Co
Standard Electric Mfg Co
Starline Inc
STEWART MFG CO
SUTTON (A) CORP
Torrington Mfg Co
TRADE-WIND MOTORFANS INC
Trane Co
Universal Blower Co
Uno Ventilator Co
Utility Appliance Corp
Viking Air Conditioning Corp
Wagner Electric Corp
WESTINGHOUSE ELECTRIC CORP ELEC-
TRIC APPLIANCE DIV
West Wind Corp
Wineco Ventilator Co

FANS, PORTABLE, WINDOW VENTILATING

Air Controls Inc
Bar-Brook Mfg Co
BIGLIN (H C) CO INC
Chelsea Fan & Blower Co
Diehl Mfg Co Electrical Div Singer Mfg Co
EMERSON ELECTRIC MFG CO
FASCO INDUSTRIES INC
General Blower Co
GENERAL ELECTRIC CO APPARATUS DEPT
Hartzell Propeller Fan Co Div Castle Hills Corp
HUNTER FAN & VENTILATING CO
Hig Electric Ventilating Co
KISCO CO INC
James Mfg Co
LAU BLOWER CO
Louden Machinery Co
MIAMI CABINET DIV CAREY (PHILIP)
MFG CO
MURRAY CO OF TEXAS
Peerless Electric Co
Perma-Jack Corp
Reed Unit-Fans Inc
Robbins & Myers Inc
Signal Electric Co
WESTINGHOUSE ELECTRIC CORP ELEC-
TRIC APPLIANCE DIV
Wineco Ventilator Co

FANS, VENTILATING, BARN, ELECTRIC

Allen Steel Products
EMERSON ELECTRIC MFG CO
GENERAL ELECTRIC CO APPARATUS DEPT
Hig Electric Ventilating Co
James Mfg Co
LAU BLOWER CO
Ward (Edgar T) Co Inc
WESTINGHOUSE ELECTRIC CORP

FASTENERS, ASBESTOS, CEMENT, SIDING

E G Building Fasteners Corp
Elastic Stop Nut Corp of America
Firewall Equipment Mfg Co
JOHNS-MANVILLE CORP
Tinnerman Products Inc
UNITED STATES GYPSUM CO

FASTENERS, CONCRETE FORM

GETTY (H S) & CO INC
Sommer Metalcraft Corp
Starline Inc
Williams Form Engineering Corp

FASTENERS, FIBER, WALLBOARD

Brush Nail Expansion Bolt Co

INSULITE DIV MINNESOTA & ONTARIO
PAPER CO
Tinnerman Products Inc
UPSON COMPANY
U S Expansion Bolt Co
WOOD CONVERSION CO

FASTENERS, LATH, METAL

BERGER MFG DIV REPUBLIC STEEL CORP
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
NATIONAL GYPSUM CO
PENN METAL CO INC
Soclatel-Te
TRUSCON STEEL CO
UNITED STATES GYPSUM CO

FASTENERS, STEEL, CORRUGATED

Acme Steel Co
Independent Metal Strap Co
Larson (Charles O) Co
Packard (E B) Co
Farrier-Kalon Corp
Signode Steel Strapping Co
STANLEY WORKS

FASTENERS, WOOD JOINT

Acme Steel Co
Arron Fastener Co
BERGER MFG DIV REPUBLIC STEEL CORP
Columbia-Steel Co
Donley Brothers
Knappe & Vogt Mfg Co
LOCKWOOD HARDWARE MFG CO
Packard (E B) Co
RODDIS PLYWOOD CORP
STANLEY WORKS
Superior Fastener Corp
Timber Engineering Co
Wright Products Co

FELT, ROOFING

BARRETT DIV ALLIED CHEMICAL & DYE
CORP
Bonafide Genasco Inc
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Globe Roofing Products Co Inc
Logan-Long Co
MACKLANBURG-DUNCAN CO
Nelson (B F) Mfg Co
Protective Papers

FELT, ROOFING, ASPHALT IMPREGNATED

AMERICAN ASPHALT ROOF CO
BARRETT DIV ALLIED CHEMICAL & DYE
CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELOTEX CORP
FLINTKOTE CO
Ford Roofing Products Co
JOHNS-MANVILLE CORP
Koppers Co
Lelton Co
Reilly Tar & Chemical Corp
RICKKRAFT CO
RUBEROID CO
TEXAS CO
UNITED STATES GYPSUM CO

FENCE, BARBED WIRE

AMERICAN STEEL & WIRE CO
Atlas Fence Co
Badger Corrugating Co
Continental Steel Corp
KEYSTONE STEEL & WIRE CO
Mid-States Steel & Wire Co
NICHOLS WIRE & ALUMINUM CO
Northwestern Steel & Wire Co
PITTSBURGH STEEL PRODUCTS CO
REPUBLIC STEEL CORP
Sheffield Steel Corp
Stewart Iron Works Co
TENNESSEE COAL IRON & RAILROAD CO
WICKWIRE SPENCER STEEL DIV COLO-
RADO FUEL & IRON CORP

FENCE, CHAIN LINK

American Chain Link Fence Co
Anchor Post Products Inc
Atlas Fence Co
Century Fence Co
Chain Link Fence Corp
COLORADO FUEL & IRON CORP
Continental Steel Corp
Copperwell Steel Co
Cyclone Fence Div American Steel & Wire Co
Grand Rapids Wire Products Co
Logan Co Inc
Mid-States Steel & Wire Co
NICHOLS WIRE & ALUMINUM CO
Page Steel & Wire Div American Chain & Cable Co Inc
Pittsburgh Steel Products Co
Southern Wire & Iron Works
Stewart Iron Works
WICKWIRE SPENCER STEEL DIV COLO-
RADO FUEL & IRON CORP

FENCE, ELECTRICALLY CHARGED

General Implement Corp

Manufacturers' Names and Addresses Start on Page D-61
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National Metal Products Co
RED DEVIL TOOLS
Sampel Time Control Inc

► FENCE & GATES, LAWN, ORNAMENTAL

American Chain Link Fence Co
AMERICAN STEEL & WIRE CO
Anchor Post Fence Div Anchor Post Products
Inc

Arnold-Dain Corp
ARTCRAFT ORNAMENTAL IRON CO
Atlas Fence Co
Ballkool Co
Belson Mfg Co
**BERGER MFG CO DIV REPUBLIC STEEL
CORP**

Bethlehem Steel Co
Busch (A G) & Co Inc
CECO STEEL PRODUCTS CORP
Chain-Link Fence Corp
CINCINNATI IRON FENCE CO
Clay Equipment Co
COFFMAN (R G) CO INC
COLORADO FUEL & IRON CORP

Columbia Steel Co
Continental Steel Corp
Cyclone Fence Div American Steel & Wire Co
Davis & Siehl Co
Decatur Iron & Steel Co
Des Moines Ornamental Iron Co
**FAWCOS MFG DIV FALLS STAMPING &
WELDING CO**

Forbes Steel Corp
Franklin Equipment Co
GENERAL BRONZE CORP
General Implement Corp
Hawkins Iron Co Inc
Illinois Wire & Mfg Co
International Steel Co
KEYSTONE STEEL & WIRE CO

Logan Co
METAL CRAFTERS
Meyers (Fred L) Mfg Co
Mid-States Steel & Wire Co
NICHOLS WIRE & ALUMINUM CO
Northwestern Steel & Wire Co
Page Steel & Wire Div American Chain &
Cable Co Inc

Pittsburgh Steel Products Co
Redwood Garden Materials Co
Samcoe Ornamental Iron Co
Smith (F P) Wire & Iron Works Inc
Standard Mfg Co
Stewart Iron Works Co Inc
TENNESSEE COAL IRON & RAILROAD CO
**WICKWIRE SPENCER STEEL DIV COL-
ORADO FUEL & IRON CORP**

► FENCE, SNOW
Capitol Fence Co
Gaynor (E S) Lumber Co
Humboldt Fence & Supply Co
Illinois Wire & Mfg Co
Kinross Pine Mills Co
Lincraft Inc
Mattson Wire & Mfg Co
Nebraska Bridge Supply & Lumber Co
ROWE MFG CO
Security Fence & Mfg Co
Wheeler-Arnold Co

► FENCE, WIRE
AMERICAN STEEL & WIRE CO
Bethlehem Steel Co
COLORADO FUEL & IRON CO
Columbia Steel Co
Continental Steel Corp
Copperweld Steel Co
Forbes Steel Corp
JONES & LAUGHLIN STEEL CO
KEYSTONE STEEL & WIRE CO
Mid-States Steel & Wire Co
Northwestern Steel & Wire Co
Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
**WICKWIRE SPENCER STEEL DIV COL-
ORADO FUEL & IRON CORP**

► FENCE, WOOD
Adelphian Mill
Arnold-Dain Corp
Atlas Fence Co
BRADLEY LUMBER CO OF ARK
Capitol Fence Co
Concord Woodworking Co
CONNOR LUMBER & LAND CO
CROSSETT LUMBER CO
Davis & Siehl Co
Elliott Company
Fordyce-Crossett Lumber Co
Frost Lumber Industries Inc
Gaynor (E S) Lumber Co
GEORGIA-PACIFIC PLYWOOD CO
Hines (Edward) Lumber Co
Illinois Wire & Mfg Co
Lincraft Inc
LONG-BELL LUMBER CO
MacGillis & Gibbs Co
Mattson Wire & Mfg Co
Nebraska Bridge Supply & Lumber Co
Redwood Garden Materials Co
ROWE MFG CO
Southern Lumber Co
Texas Fence Co
WEYERHAEUSER SALES CO
Whiting Fence Co
Williamette Valley Lumber Co
Wilson (A K) Lumber Co
Wolfe (Harry M)
Wood Products Co

► FERTILIZER, LAWN

Armour & Co Fertilizer Works Div
Hyper-Humus Co
Milwaukee Sewerage Commission
Swift & Company
Walker-Gordon Laboratory Co

► FILTERS, SAW, BAND, CIRCULAR, ETC

Atkins (E C) Div Borg Warner Corp
Chattanooga Saw Works
Corley Mfg Co
Disston (Henry) & Sons Inc
FOLEY MFG CO
Hanchett Mfg Co
Huther Brothers Saw Mfg Co

► FILES & RASPS

American Swain File & Tool Co
Atkins (E C) Div Borg Warner Corp
Delta File Works Inc
Disston (Henry) & Sons Inc
Heller Brothers
Hoe (R) & Company Inc
Hook Scraper Mfg Co
International Twist Drill Corp
Nicholson File Co
Plumb (Fayette R) Inc
Proto Tool Co
RED DEVIL TOOLS
SIMONDS SAW & STEEL CO

► FILLERS, CRACK & JOINT

Acme White Lead & Color Works
Alabastine Paint Products Div Chicago
Bronze & Color Works
American Varnish Co
ARMSTRONG CONK CO
Blue Ridge Talc Co
Boston Varnish Co
Boyer Chemical Laboratory Co
Boyle-Midway Inc
Central Paint & Varnish Works
Chicago Bronze & Color Works
Consumers Glue Co
Durham (Donald) Company
Elliott Paint & Varnish Co
Fabricated Products Co
Felton Sibley Co Inc
Glidden Co
Gumpert Laboratories
JOHNS-MANVILLE CORP
Johnston (R F) Paint Co
Lasting Products Co
Lowe Brothers
NATIONAL GYPSUM CO
Paisley Products
Patterson-Sargent Co
PECORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
Prestito Engineering Co
Reardon Co
Reilly Tar & Chemical Corp
Savogran Co
Schalk Chemical Co
Servicised Products Corp
Sheffield Bronze & Paint Corp
Smooth-On Mfg Co
Steelcote Mfg Co
Stonhard Co
Tamm Industries Inc
Technical Supply Co
Tiellet Cement Co Inc
TRAYOR DRIVEWAY SERVICE
United Gilsomite Laboratories
U S GYPSUM CO
Webb Products Co
Wesco Waterpaints
X-Pando Corp

► FILLERS, JOINT, SEWER PIPE

Acme White Lead & Color Works
Alabastine Paint Products Div Chicago
Bronze & Color Works
American Varnish Co
Berry Brothers Inc
Boyle-Midway Inc
Bradley & Vrooman Co
Breinig Brothers
BRUCE (E L) COMPANY
Chicago Bronze & Color Works
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co
Elliott Paint & Varnish Co
Felton Sibley & Co Inc
Fuller (W P) & Company
Glidden Company
Keystone Varnish Co
Lowe Brothers
O'Brien Corp
Parker (Ira) & Sons
Patterson-Sargent Co
Peaslee-Gaubert, Paint & Varnish Co
PITTSBURGH PLATE GLASS CO
Pratt & Lambert

► FILLERS, JOINT, SEWER PIPE
CAREY (PHILIP) MFG CO
JOHNS-MANVILLE CORP
Kaul Clay Mfg Co
Keystone Asphalt Products Co
NATIONAL CLAY PIPE MFRS INC
Robinson Clay Product Co
Servicised Products Corp

► FILLERS, WOOD
Acme White Lead & Color Works
Alabastine Paint Products Div Chicago
Bronze & Color Works
American Varnish Co
Berry Brothers Inc
Boyle-Midway Inc
Bradley & Vrooman Co
Breinig Brothers
BRUCE (E L) COMPANY
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PITTSBURGH PLATE GLASS CO
Pratt & Lambert

Reardon Co
Savogran Co
Schalk Chemical Co
Selditz Paint & Varnish Co
Sheffield Bronze Paint Corp
SHERWIN-WILLIAMS CO
Steelcote Mfg Co
United Gilsomite Laboratories
U S PLYWOOD CORP
Webb Products Co
Wilbur & Williams Co

► FILTERS, AIR

Abbeon Supply Co
Fridolite Division General Motors Corp
HERMAN NELSON
OWENS-CORNING FIBERGLAS CORP
Research Products Co
Trane Co
Trion Inc

► FINANCING SERVICES

ALLIED BUILDING CREDITS INC
Commercial Credit Corp
Douglas-Guardian Warehouse Corp
Investors Syndicate
Lawrence Warehouse Co
National Life Insurance Co
St Louis Terminal Warehouse Co
U S Savings & Loan League

► FINISHERS, CONCRETE FLOOR

Whitman Mfg Co

► FINISHERS, WALLBOARD JOINT

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Durham (Donald) Co
JOHNS-MANVILLE CORP
MARSH WALL PRODUCTS INC
NATIONAL GYPSUM CO
Reardon Co
Schalk Chemical Co
U S GYPSUM CO
UPSON CO
Wesco Waterpaints Inc

► FINISHES & SEALER, FLOOR

Albedo Mfg Corp
Alabastine Paint Products Div Chicago
Bronze & Color Works
**AMERICAN FLOOR SURFACING MACHINE
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American Fluoresc Co Inc
American Marietta Co
American Varnish Co
Boston Varnish Co
BRUCE (E L) COMPANY
Camp Chemical Co Inc
Ceramex Chemical Corp
Chapman Chemical Co
Chicago Bronze & Color Works
Chi-Namel Paint & Varnish Co
Clarke Sanding Machine Co
Continental Asbestos & Refining Corp
Cromar Co
Devoe & Reynolds Co Inc
Du Pont (E I) de Nemours & Co Inc
FLINTKOTE CO INC
Franklin Research Co
Glidden Co
Hilger Co
Horn (A C) Company Inc
International Chemical Co
Johnson (S C) & Co Inc
Lowe Bros Co
Minnesota Mining & Mfg Co
Minnesota Platen Corp
MONSANTO CHEMICAL CO
Nu Surfas Corporation
O'Brien Corp
Patterson-Sargent Co
Pierce & Stevens Inc
PITTSBURGH PLATE GLASS CO
Plasti-Kote Co
Sealeon Products Inc
Selditz Paint & Varnish Co
Sonneborn (L) Sons
Standard Floor Co
Steelcote Mfg Co
Tamm Industries Inc
Technical Supply Co
Tremco Mfg Co
Tufcrete Co Inc
U S PLYWOOD CORP
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Waterlox Div Empire Varnish Co
Wesco Waterpaints Inc
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**► FIREPLACE, OUTDOOR &
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BENNETT-IRELAND CO
Builder's Fireplace & Supply Co
CHATTANOOGA IMPLEMENT & MFG CO
Colonial Brass Co
Donley Brothers Co
Grill Craft Co
Hart Products Inc

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HEATILATOR INC
Industrial Iron Works
Logan Co
MAJESTIC CO
Mexico Refractories Co
Ohio Stone Co
Outdoor Oven Fireplace Co
Peerless Mfg Co
PRICE FIREPLACE HEATER & TANK CORP
SHEPLER MFG CO
Silent Glow Oil Burner Corp
Smith (F P) Wire & Iron Works
Southern Barbeque Grill
Vestal Stone Co
Western Foundry Co
Wiemann (Ernest) Iron Works

► FIREPLACES, UNITS, METAL

BENNETT-IRELAND CO
Builder's Fireplace & Supply Co
Carey Industries
Coreset (H W) Co
Donley Bros
Gabriel Steel Co
Hearthaire Conditioning Co
Hearthside-Triston Fireplace Co
HEATILATOR INC
MAJESTIC CO
Northwest Metal Products Inc
PRICE FIREPLACE HEATER & TANK CORP
READYBUILT PRODUCTS CO
SHEPLER MFG CO
SUPERIOR FIREPLACE CO

► FITTINGS, ELECTRIC
Anupleton Electric Co
Arrow Hart & Hageman Electric Co
Bryant Electric Co
Gits Molding Corp
Hiles Engineering Co
Hubbell (Harvey) Inc
Laminated Metals Products Corp

**► FITTINGS, PLUMBING &
HEATING**
**AMERICAN RADIATOR & STANDARD SANI-
TARY CORP**
American Sanitary Mfg Co
Autoyre Co
Barnes Mfg Co
BELL & GOSSETT CO
BIRGGS MFG CO
Byers (A M) Co
CASE (W A) & SON MFG CO
Central Brass Mfg Co
CHASE BRASS & COPPER CO
Chicago Faucet Co
Conduit Pipe Products Co
CRANE COMPANY
Dart (E M) Mfg Co
Detroit Brass & Malleable Works
Dick Brothers Inc
Durst Mfg Co
ELJER CO
Firestone Tire & Rubber Co
General Fittings Co
Glauber Brass
Grabier Mfg Co
Harvey Machines Co Inc
James Mfg Co
Keystone Brass & Rubber Co
Knights (James) Company
KOHLER CO
McDonald (A V) Mfg Co
McDonnell & Miller Inc
Mueller Brass Co
National Tube Co
Penberthy Injector Co
Powell (William) Co
Price-Paster Brass Mfg Co
Republic Brass Co
Rockford Brass Works
Schallice Co
Sevill Mfg Co
Sherman (H B) Mfg Co
Speakman Co
THURSH (W A) CO
Trane Company
Trenton Pipe Nipple Corp
UNIVERSAL-BUNDLE CORP
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Wolf Mfg Co
Youngstown Steel Products Co

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Chicago Faucet Co
Conduit Pipe Products Co
CRANE COMPANY
Dart (E M) Mfg Co
Detroit Brass & Malleable Works
Dick Brothers Inc
Durst Mfg Co
ELJER

Miller Co
New Light Inc
Neo-Ray Products Inc
Old Guilford Forge
Pass & Seymour Inc
PRYNE & CO INC
Pyle-National Co
Sivray Lighting Inc
Smoot-Holman Co
Stober Mfg Co
Superior Plastics Div Commonwealth Plastic Inc
Swain & Bridge
Switwiler Co
Sylvania Electric Products Inc
Technical Glass Co Inc
Tuttle & Balley
Verden & Co
WESTINGHOUSE ELECTRIC CORP

► FIXTURES, FLUORESCENT

Alken Mfg Co
Benjamin Electric Co
Cupples Co
Curtis Lighting Inc
Day-Brite Lighting Inc
Eagle Electric Mfg Co Inc
Flex-A-Lite Co
Fluorescent Fabricators Div Easy-Eye Lighting Inc
Fluorescent Lighting Co
Frink Corp
GENERAL ELECTRIC CO APPARATUS DEPT
Guth (Edwin F) Co
Ingram-Richardson Mfg Co
International Lighting Co
KIRLIN CO
Lightstar Co
Long (W B) Co
MARKEL ELECTRIC PRODUCTS INC
Metalaft Screen Co
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
Modern Light & Equipment Co
Neo-Ray Products Inc
Smithcraft Lighting Div
Superior Plastics Div Commonwealth Plastic Inc
Sylvania Electric Products Inc
Verden & Co
WESTINGHOUSE ELECTRIC CORP
Wheeler Reflector Co
Willey (R & W) Corp

► FIXTURES, PLUMBING

Abingdon Pottery
ALLIANCEWARE INC
AMERICAN RADIATOR & STANDARD SANITARY CORP
American Sanitary Mfg Co
Berger (Thomas W) Inc
Bowers Pottery Co
BIGGGS MFG CO
Camden Pottery Div Universal-Rundle Corp
CASE (W A) & SON MFG CO
Chicago Pottery Co
Clow (James B) & Sons
CRANE COMPANY
Douglas (John) Co
ELJER CO
General Ceramics & Steatite Corp Sanitary Ware Div
Hajosa Corp
Harvey Machine Co Inc
Humbreys Mfg Co
KOHLER CO
Kokomo Sanitary Pottery Co
Mansfield Sanitary Pottery Co
Maydome (David) Tool Corp
McDonald (A Y) Mfg Co
MILWAUKEE FLUSH VALVE CO
MULLINS MFG CO
MURRAY CORP OF AMERICA
National Plumbing Fixture Corp
Pioneer Co
Price-Plaster Brass Mfg Co
PROJECTUS INC
Rosed Brass Mfg Co
RICHMOND RADIATOR CO
Robinson Clay Product Co
Schubbe Co
Sherman (H B) Mfg Co
Stobie & Co Inc
Speakman Co
Streammaster Shower Corp
Trotton Potteries Co
T S Sanitary Mfg Co
UNIVERSAL-RUNDLE CORP
Universal Sanitary Mfg Co
Winning Casting Co
Zuru (J A) Mfg Co

► FIXTURES, SHOWER

American Brass Mfg Co
AMERICAN RADIATOR & STANDARD SANITARY CORP
Central Brass Mfg Co
CRANE COMPANY
ELJER CO
FIAT METAL MFG CO
MILWAUKEE FLUSH VALVE CO
Mottler Co
Price-Plaster Brass Mfg Co
Ravens Metal Products Co
Sanitary-Dash Co
Sevill Mfg Co
Speakman Co
Streammaster Shower Corp

► FIXTURES, STORE LIGHTING

Garden City Plating & Mfg Co
GENERAL ELECTRIC COMPANY APPARATUS DEPT
Mitchell Mfg Co

Switwiler Co
Sylvania Electric Products Inc
WESTINGHOUSE ELECTRIC CORP

► FIXTURES & MATERIALS, STORE DISPLAY

Abaco Displays
A B C Cabinet Fixture Works
Adler-Jones Co
Allied Display Materials Inc
American Fixture & Mfg Company
American Plywood Corp
Ames (W B) Company
Barnes Mfg Co
BERGER MFG CO DIV REPUBLIC STEEL CORP
Brewer-Titchener Corp
BUTLER (B B) MFG CO INC
Chicago Card Holder Co
Colgate Mfg Corp
Columbia Show Case Co
Commonwealth Plastics Inc Superior Plastics Div
Detroit Show Case Co
Display Craft
FORMICA CO
Equipto Div Aurora Equipment Co
Fuller Displays Inc
Fulton Glass Co
Garden City Plating & Mfg Company
Garrison-Wagon Printing Co
General Die & Stamping Co
Grand Rapids Store Equipment Co
Hampton Mfg Co Inc
Heller (W C) & Co
Hirsch (S A) Mfg Co
Interlock Metal Units Inc
Johnston Glass Co
Ken-Bo-Bill Corp
Knappe & Vogt Mfg Co
LONG-BELL LUMBER CO
Lyon Metal Products Co
May-Bilt Inc
Metal Decorating & Mfg Co
Multiplier Display Fixture Co
National Sawdust Co
Quensel Displays
Reardon Co
RED DEVIL TOOLS

Reves (Huron E) Co
Radiator Hardware Corp
Reno
Ruslander & Sons Inc
Seheuer Creations Inc
Schwartz Showell Corp
Simplex Store Equipment Inc
Sitka Spruce Lumber & Mfg Co
Stanford Wood Products Co
Stonsgard (W L) & Associates Inc
Stillwater Mfg Co
Store Engineering Co
Store Kraft Mfg Co
Superior Plastics Div Commonwealth Plastics Inc
Technical Glass Co
Timberstone Decorative Co
Universal Equipment Co
Waddell Company Inc
Warner Mfg Co
Warren (J D) Mfg Co

REYNOLDS METALS CO BUILDING PRODS DIV

REYNOLDS METALS CO BUILDING PRODS DIV

► FLAGSTONES

Evergreen Slate Co Inc
Landscape Slate & Roofing Co Inc
Tennessee Stone Company Inc

► FLANGES, FLUE

Adams Co
Columbia Pipe Co
Evans Pipe Co
Kees (F D) Mfg Co

► FLASHING, ALUMINUM

Central Products Co
New Holland Metals Co
RICHOLS WIRE & ALUMINUM CO
REYNOLDS METALS CO BUILDING PRODS DIV

► FLASHING, COPPER

American Brass Co
Anzier Corp
CECO STEEL PRODUCTS CORP
Central Products Co
CHASE BRASS & COPPER CO
Hussey (C G) Co
INLAND STEEL PRODUCTS CO
Revere Copper & Brass Co
SISALKRAFT CO
Wasco Flashing Co

► FLASHING, METAL, GALVANIZED

Allan Steel Products
AMERICAN STEEL & WIRE CO
BERGER MFG DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
Central Products Co
Cheney Industries
Continental Steel Corp
Edwards Mfg Co
FLINTKOTE CO INC
Gary-Pioneer Steel Corp
Illinois Zinc Co

INLAND STEEL PRODUCTS CO
LaCrosse Steel Roofing & Corrugating Co
Metal Tile Products Inc
Mid-States Steel & Wire Co
Northwest Metal Products Inc
Penn Supply & Metal Corp
REPUBLIC STEEL CORP
ST PAUL CORRUGATING CO
Sealton Products Inc
UNITED STATES STEEL CO
Wheeling Corrugating Co

► FLASHING, PAPER TREATED

Angier Corporation
BARRETT DIV ALLIED CHEMICAL & DYE CORP
CAREY (PHILIP) MFG CO
JOHNS-MANVILLE CORP
Lebon Co
PROTECTIVE PAPERS INC
RICKHRAFT CO
RUBEROID CO
SISALKRAFT CO

► FLOATS, CONCRETE VIBRATING

SYNTRON CO

► FLOORING, BLOCK

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Cincinnati Floor Co
CONNOR LUMBER AND LAND CO
Cromar Co
Evans Hardwood Flooring Co
FAIR (D L) LBR CO
Farrin (M B) Lbr Co
GEORGIA-PACIFIC PLYWOOD CO
Harris Mfg Co
HIGGINS INC
Holt Hardwood Co
Hurtshoro Oak Flooring Co Inc
Memphis Hardwood Flooring Co
Miller Bros Co Inc
Nickey Bros Inc
North Branch Flooring Co
Paxton (Frank) Lbr Co
Robbins Flooring Co
Stuart Lumber Corp
Virginia Oak Flooring Co

► FLOORING, CORK

ARMSTRONG CORK CO
Cork Insulation Co Inc
Dodge Cork Co Inc
KENTILE INC

► FLOORING, FIR

Giustina Bros Lumber Co
Hines (Edward) Lumber Co
Holt Hardwood Co
Horner Flooring Co
Lightsey Brothers
Marsh Lumber Co
McMinville Mfg Co
Meadow River Lumber Co
Miller Brothers Co
Monterey Hardwood Flooring Co
Mower Lumber Co
Nickey Brothers Inc
North Branch Flooring Co
Owen (R C) Co
Paxton (Frank) Lumber Co
Phillips-Rhyme Lumber Co
Robbins Flooring Co
Stoddard Wood Products Inc
Stuart Lumber Corp
Tibbals Flooring Co
Twin City Hardwood Lumber Co
Virginia Oak Flooring Co
Webster (H E) Lumber Co
Wells (J W) Lumber Co
Williams & Voria Lumber Co
Wood-Mosaic Co Inc

► FLOORING, HARDWOOD, BEECH

Anderson-Tully Co
Arkansas Oak Flooring Co
Atlanta Oak Flooring Co
Babeock Lumber Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Central Oak Products Co
Clarke County Lumber Mills
Colonial Hardwood Flooring Co
Cook (F C) & Co
Cotton & Hanlon
CROSSETT LUMBER CO
Emporium Forestry Co
Evans Hardwood Flooring Co
FAIR (D L) LUMBER CO
Harris Mfg Co
Holt Hardwood Co
Kenova Hardwood Flooring Co
Leathers (A H) Mfg Co
LONG-BELL LUMBER CO
Marsh Lumber Co
McMinville Mfg Co
Meadow River Lumber Co
Memphis Hardwood Flooring Co
Merit Oak Flooring Co
Miller Brothers Co
Mobile River Saw Mill Co
Monterey Hardwood Flooring Co
Mower Lumber Co
Nickey Brothers Inc
Owen (R C) Co
Parrell Lumber Co
Paxton (Frank) Lumber Co
Phillips-Rhyme Lumber Co
Robbins Flooring Co
Rose (D M) & Co
Southern Lumber Co
Stuart Lumber Corp
Teoxak Flooring Co

► FLOORING, HARDWOOD, OAK

Anderson-Tully Co
Arkansas Oak Flooring Co
Atlanta Oak Flooring Co
Atlantic Lumber Co
Babeock Lumber Co
Barger (P M) Lumber Co
Barnes Lumber Corp
Boydton Mfg Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Caromiss Lumber Co
Carpenter Oak Flooring Co
Carr Lumber Co
Central Oak Products Co
Chapman & Dewey Lumber Co
Clarke County Lumber Mills
Cloud Oak Flooring Co
Colonial Hardwood Flooring Co
CONNOR LUMBER & LAND CO
Cook (A B) Co
Cook (F C) & Co
Cotton & Hanlon
Cromar Co
CROSSETT LUMBER CO
De Soto Hardwood Flooring Co
Dierks Lumber & Coal Co
Emporium Forestry Co
Evans Hardwood Flooring Co
Exchange Sawmills Sales Co
FAIR (D L) LUMBER CO

Tibbals Flooring Co
Virginia Oak Flooring Co
Webster (H E) Lumber Co
Wells (J W) Lumber Co
Williams & Voria Lumber Co
Wood-Mosaic Co Inc
Yawkey-Bissell Lumber Corp

► FLOORING, HARDWOOD, BIRCH

Atlanta Oak Flooring Co
ATLAS PLYWOOD CORP
Babeock Lumber Co
Clarke County Lumber Mills
CONNOR LUMBER & LAND CO
Cotton & Hanlon
Emporium Forestry Co
Farrin (M B) Lumber Co
GEORGIA-JACIFIC PLYWOOD & LUMBER CO
Holt Hardwood Co
Meadow River Lumber Co
Miller Brothers Co
Mower Lumber Co
Nickey Brothers Inc
Paxton (Frank) Lumber Co
Phillips-Rhyme Lumber Co
Robbins Flooring Co
Schreiber (William C) Lumber Co
Virginia Oak Flooring Co
Woods (W) Lumber Co
Wood-Mosaic Company Inc

► FLOORING, HARDWOOD, FIBER

Boc Wood Flooring Inc

► FLOORING, HARDWOOD, MAPLE

Atlanta Oak Flooring Co
Babeock Lumber Co
Barger (P M) Lumber Co
BRUCE (E L) CO
Carr Lumber Co
Central Oak Products Co
Clarke County Lumber Mills
Colonial Hardwood Flooring Co
CONNOR LUMBER & LAND CO
Cook (F C) & Co
Cotton & Hanlon
Cromar Co
Emporium Forestry Co
Evans Hardwood Flooring Co
Farrin (M B) Co
Ferguson (W T) Lumber Co
GEORGIA-PACIFIC PLYWOOD CO
Harris Mfg Co
Hines (Edward) Lumber Co
Holt Hardwood Co
Horner Flooring Co
Lightsey Brothers
Marsh Lumber Co
McMinville Mfg Co
Meadow River Lumber Co
Miller Brothers Co
Monterey Hardwood Flooring Co
Mower Lumber Co
Nickey Brothers Inc
North Branch Flooring Co
Owen (R C) Co
Paxton (Frank) Lumber Co
Phillips-Rhyme Lumber Co
Robbins Flooring Co
Rose (D M) & Co
Schreiber (William C) Lumber Co
Stoddard Wood Products Inc
Stuart Lumber Corp
Tibbals Flooring Co
Twin City Hardwood Lumber Co
Virginia Oak Flooring Co
Webster (H E) Lumber Co
Wells (J W) Lumber Co
Williams & Voria Lumber Co
Wood-Mosaic Co Inc

► FLOORING, HARDWOOD, OAK

Anderson-Tully Co
Arkansas Oak Flooring Co
Atlanta Oak Flooring Co
Atlantic Lumber Co
Babeock Lumber Co
Barger (P M) Lumber Co
Barnes Lumber Corp
Boydton Mfg Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Caromiss Lumber Co
Carpenter Oak Flooring Co
Carr Lumber Co
Central Oak Products Co
Chapman & Dewey Lumber Co
Clarke County Lumber Mills
Cloud Oak Flooring Co
Colonial Hardwood Flooring Co
CONNOR LUMBER & LAND CO
Cook (A B) Co
Cook (F C) & Co
Cotton & Hanlon
Cromar Co
CROSSETT LUMBER CO
De Soto Hardwood Flooring Co
Dierks Lumber & Coal Co
Emporium Forestry Co
Evans Hardwood Flooring Co
Exchange Sawmills Sales Co
FAIR (D L) LUMBER CO

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Farrin (M B) Lumber Co
 Ferguson (W T) Lumber Co
 Fordyce-Crossett Lumber Co
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Graybell (C R) & Sons
 Greene Lumber Co
 Hallett Mfg Co
 Harris Mfg Co
HIGGINS INC
 Holt Hardwood Co
 Hurtsboro Oak Flooring Co Inc
 Industrial Lumber Co
 Kirby Lumber Corp
 Lancaster Corp
 Lanham Hardwood Flooring Co
 Leathers (A H) Mfg Co
 Lightsey Brothers
LONG-BELL LUMBER CO
 Marsh Lumber Co
 McMinville Mfg Co
 Meadow River Lumber Co
 Memphis Hardwood Flooring Co
 Merritt Oak Flooring Co
 Miller & Co Inc
 Miller Brothers Co
 Mobile River Saw Mill Co
 Monterey Hardwood Flooring Co
 Mower Lumber Co
 Nickey Brothers Inc
 North Branch Flooring Co
 Owen (R C) Co
 Ozark Oak Flooring Co
 Parrell Lumber Co
 Phillips-Rhyme Lumber Co
 Robbins Flooring Co
 Rose (D M) & Co
 Schreiber (William C) Lumber Co
 Scotch Lumber Co
 Scottdale Wood Products Inc
SOUTHERN PINE LUMBER CO
 Stewart (E A) Lumber Co
 Stowers Lumber & Mfg Co
 Stuart Lumber Corp
 Texask Flooring Co
 Tibbals Flooring Co
 Twin City Hardwood Lumber Co
 Veach-May-Wilson Co
 Virginia Oak Flooring Co
 Webster (H E) Lumber Co
 Wells (J W) Lumber Co
 Wells (J W) Lumber Co of Ala
 Westcott (J D) & Son
 Williams & Voris Lumber Co
 Wood-Mosaic Co Inc

**FLOORING, HARDWOOD
 PECAN**

Anderson-Tully Co
 Arkansas Oak Flooring Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
 Clarke County Lumber Mills
FAIR (D L) LBR CO
 Fordyce-Crossett Lumber Co
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Hallett Mfg Co
 Industrial Lumber Co
LONG-BELL LUMBER CO
 Meadow River Lumber Co
 Memphis Hardwood Flooring Co
 Miller & Co Inc
 Mobile River Saw Mill Co
 Nickey Brothers Inc
 Owen (R C) Co
 Phillips-Rhyme Lumber Co
 Southern Lumber Co
 Texask Flooring Co
 Twin City Hardwood Lumber Co

**FLOORING, HARDWOOD,
 PRE-FINISHED**

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
 Cincinnati Floor Co
 Cromar Co
FAIR (D L) LUMBER CO
HIGGINS INC
 Memphis Oak Flooring Co
PARKAY INC
 Southern Lumber Co

FLOORING, MARBLE

Vermont Marble Co

FLOORING, PARQUETRY

Barger (P M) Lumber Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CONNOR LUMBER & LAND CO
 Cromar Co
FAIR (D L) LUMBER CO
 Farrin (M B) Lumber Co
GEORGIA-PACIFIC PLYWOOD CO
 Harris Mfg Co
HASKELITE MFG CORP
 Newcastle Industries Inc
PARKAY INC
 Paxton (Frank) Lumber Co
 Pearson Hardwood Flooring Co
 Robbins Flooring Co
 Stuart Lumber Corp
 Texask Flooring Co
 Twin City Hardwood Lumber Co
 Virginia Oak Flooring Co

FLOORING, PINE

Anderson-Tully Co

Babeock Lumber Co
 Barnes Lumber Corp
 Barger (P M) Lumber Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
 Clarke County Lumber Mills
 Colonial Hardwood Flooring Co
 Cotton & Hanlon
CROSSETT LUMBER CO
 Dargen Lumber Mfg Co
 Dierks Lumber & Coal Co
 Emporium Forestry Co
 Exchange Sawmills Sales Co
FAIR (D L) LUMBER CO
 Ferguson (W T) Lumber Co
 Fordyce-Crossett Lumber Co
 Frost Hardwood Floors Inc
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Green Lumber Co
 Hallett Mfg Co
 Hurtsboro Oak Flooring Co Inc
 Kirby Lumber Corp
 Lightsey Brothers
LONG-BELL LUMBER CO
 Miller & Co Inc
 Phillips-Rhyme Lumber Co
 Scotch Lumber Co
 Southern Lumber Co

FLOORING, PLANK

Anderson-Tully Co
 Arkansas Oak Flooring Co
 Atlanta Oak Flooring Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
 Central Oak Products Co
 Cincinnati Floor Co
 Cloud Oak Flooring Co
 Cotton & Hanlon
 De Soto Hardwood Flooring Co
 Evans Hardwood Flooring Co
FAIR (D L) LUMBER CO
 Farrin (M B) Lumber Co
 Frost Hardwood Floors Inc
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Harris Mfg Co
 Holt Hardwood Co
LONG-BELL LUMBER CO
 Marsh Lumber Co Inc
 McMinville Mfg Co
 Meadow River Lumber Co
 Memphis Hardwood Flooring Co
 Miller Bros Co Inc
 Nickey Brothers Inc
 North Branch Flooring Co
 Owen (R C) Co
PARKAY INC
 Paxton (Frank) Lumber Co
 Phillips-Rhyme Lumber Co
 Rose (D M) & Co
 Scottdale Wood Products Inc
 Texask Flooring Co
 Virginia Oak Flooring Co
 Wells (J W) Lumber Co

FLOORING, RUBBER

ARMSTRONG CORP
 Flash-Stone Company Inc
 Fremont Rubber Co
 Goodrich (R F) Co
 Johnson Industries Inc
PCA RUBBER CO
 Robbins Floor Products
 Roxdale Building Products Corp
 Serviceid Products Corp
 U S Rubber Co

FLOORING, STEEL

Armo Drainage & Metal Products Inc
 Blue-Knox Div Blue-Knox Co
FENESTRA BUILDING PRODUCTS
 Inland Steel Co
 International Steel Co
JONES & LAUGHLIN STEEL CORP
 Mahon (R C) Co
UNITED STATES STEEL CO
 Wheeling Corrugating Co
WRIGHT MFG CO

FLOORING, SUB-COMPOSITE

BARRETT DIV ALLIED CHEMICAL & DYE CORP

FLOORING UNDERLAYMENT

ARMSTRONG CORK CO BUILDING MATERIALS DIV
 Bonafide Genasco Inc
 Camo Co
CELOTEX CORP
 Consumers Glue Co
FLINTKOTE CO
 Keystone Asphalt Products Co
MASONITE CORP
MIRACLE ADHESIVES CORP
 Pioneer Latex & Chemical Co Inc
 Plasmwood Corp
 Protective Papers Inc
 Selby Battersby & Co
 Serviced Products Corp
 Sloan-Blabon Corp
 Tamm Industries Inc
 Tile-Tex Div Flintkote Co

FLOOR POLISHERS

AMERICAN FLOOR SURFACING MACHINE CO

BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
BRUCE (E L) CO
BUCK TOOL CO
MILWAUKEE ELECTRIC TOOL CORP
PITTSBURGH PLATE GLASS CO

FLOOR RESURFACERS

Acme Asbestos Covering & Flooring Co
 Adensite Co
 American Fluorite Co Inc
 Anti-Hydro Waterproofing Co
 Camp Company
 Cerest Waterproofing Corp
 Coddington (E D) Mfg Co
 Consumers Glue Co
 Curtis Mfg & Asbestos Co
 Evercrete Corp
 Flash-Stone Company Inc
 Flastrok Co
 Glidden Co
 Horn (A C) Co
 Keystone Asphalt Products Co
 Master Builders Co
MIRACLE ADHESIVES CORP
 Monroe Co Inc
MOORE (GOODLOE E) CO
 Reardon Co
 Roe-Wood Flooring Inc
 Rutland Pine Clay Co
 Sealk Chemical Co
 Selby Battersby & Co
 Smooth-On Mfg Co
 Somslearn (L) Sons Inc
 Spray-On-Band Co
 Steeleco Mfg Co
 Stonhard Co
 Sullivan Co
 Tamm Industries Inc
 Trucon Laboratories Div Desoe & Reynolds Inc
 Tufcrete Co Inc
 United Gilsonite Laboratories
 United Laboratories Inc
 Vita-Var Corp

FLOORS & CEILINGS, PRE-CAST, CONCRETE UNIT

Alabama Cement Tile Co
 Flexitors Co Inc
 Permacrete Products Corp
 Price Brothers Co
 Porrete Mfg Co

FLOOR WAXERS, ELECTRIC

Alzoma Mfg Co
AMERICAN FLOOR SURFACING MACHINE CO
 Atlas Floor Surfacing Machinery Corp
BRUCE (E L) CO
 Clarke Sanding Machine Co
 Fay Floor Machine Co
 General Floorcraft Inc
 Hill Floor Machine Co
 Hilger Co
 Holt Mfg Co
 Johnson (S C) & Son Inc
 Kent Co Inc
 Landers Fray & Clark
 Lincoln-Schlueter Floor Machine Co
 O'cedar Corp
 Twin-Brush Corp

FLOWER BOXES

AIR CONTROL PRODUCTS INC
 Arterete Products Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
METAL PRODUCTS CORP
 Powell Pressed Steel Co
 Rustic Crafts Co Inc

FLUES, ASBESTOS-CEMENT

CAREY (PHILIP) MFG CO
JOHNS-MANVILLE CORP

FLUES & CHIMNEYS

PREFABRICATED

American Vitrified Products Co
 China Siles Co
CONDENSATION ENGINEERING CORP
GENERAL PRODUCTS CO
 Houston Blow Pipe & Sheet Metal Works
MAJESTIC CO
 Southern States Iron Roofing Co
VAN PACKER CORP
 Williams-Wallace Co

FORMS, SILO

Universal Form Clamp Co

FOUNTAINS, DRINKING

AMERICAN RADIATOR & STANDARD SANITARY CORP

ELIER CO
 Haws Drinking Faucet Co
 Taylor (Halsey W) Co

FRAMES, DOOR & WINDOW, METAL

AETNA STEEL PRODUCTS CORP
 Aluminum Window Corp
 American Steel Door Co
AMERICAN WELDING & MFG CO
 Bayley (William) Co
 Brasco Mfg Co
BUILDERS MFG CO
CECO STEEL PRODUCTS CORP
 Clark-Babbitt Industries Inc
 Compo-Miracle Products Co
COPCO STEEL & ENGINEERING CO
 Crittall Inc
 Dahlstrom Metalite Door Co
 DeCATUR Iron & Steel Co
 Debid Co Inc
FENESTRA BUILDING PRODUCTS
HOPE'S WINDOWS
 International Steel Co
KEWANE MFG CO
 Knapp Brothers Mfg Co
 Mesker Brothers Iron Co
METAL CRAFTERS
 National Kalamita Co Inc
ONE-DEER FRAME CORP
PITTSBURGH PLATE GLASS CO
 Richmond Fireproof Door Co
RICHARDS-WILCOX MFG CO
 Soule Steel Co
 Southern Wire & Steel Products Co
STEELCRAFT MFG CO
 Sterling Windows Inc
 Truline Developments
TRUSCON STEEL CO
UNITED STEEL FABRICATORS INC
VIRGINIA METAL PRODUCTS CORP
 V-Seal Corp
 Wenzel Mfg Co
 Wallaeger Steel Corp

FRAMES, DOOR, WOOD

American Sash & Door Co
ANDERSEN CORP
 Biles-Coleman Lumber Co Inc
BRADLEY LUMBER CO OF ARK
 Burke Millwork Co
CARR ADAMS & COLLIER CO
 Cole Mfg Co
CROSSETT LUMBER CO
CURTIS COS INC
 Deer Park Pine Industry Inc
 Dierks Lumber & Coal Co
 Farley & Loetscher Mfg Co
 Fordyce-Crossett Lumber Co
 General Panel Corp
GREGG & SON
 Hoosier Sash & Door Co
 Huttig Mfg Co
 Huttig Sash & Door Co
 Hyde-Murphy Co
 Ideal Co
 Keystone Frame & Mfg Co
 Kinzua Pine Mills Co
 Lockwood Wood Products
LONG-BELL LUMBER CO
MALTA MFG CO
 Marquart Millwork Co
 Morgan Co
 Morgan Sash & Door Co
 National Screen Door Co
 Pacific Mutual Door Co
 Roach & Musser Mfg Co
 Rock Island Millwork Co
 Seneca Lumber & Millwork Co
 Silcrest Co
 Southern Lumber Co
 Spokane Pine Products Co
 Walled Lake Door Co
 Washington Mfg Co
WEL-BILT PRODUCTS CO
WEYERHAEUSER SALES CO
 Wisconsin Flush Door Co

FRAMES, METAL FOR STRUCTURAL GLASS

Brasco Mfg Co
 Dusing & Hunt Inc
KAWNEER CO
PITTSBURGH PLATE GLASS CO
 Sterling Windows Inc

FRAMES, SINK WELL

BRIGGS MFG CO
H & T METALS CO
 Decortie Inc
 National Guard Products
 Selek (Walter E) & Co
 Trimedge Inc
 Werner (R D) Co
 Youngstown Mfg Inc

FRAMES, WINDOW, WOOD

American Sash & Door Co
ANDERSEN CORP
 Biles-Coleman Lumber Co Inc
 Bradley Miller & Co
BROWN-GRAVES CO
 Burke Millwork Co
 Cameron (Wm) & Co Inc
CARR ADAMS & COLLIER CO
 Clay Equipment Corp
 Cole Mfg Co
CURTIS COS INC
 Farley & Loetscher Mfg Co

Manufacturers' Names and Addresses Start on Page D-61
 Manufacturers' Brand Name Identifications Start on Page D-52

Frost Lumber Industries Inc
General Woodwork Co
GREGG & SON INC
Hines (Edward) Lumber Co
Huttig Mfg Co
Huttig Sash & Door Co
Hyde-Murphy Co
Ideal Co
Keystone Frame & Mfg Co
Kinzua Pine Mills Co
Larkwood Wood Products
LONG-BELL LUMBER CO
MALTA MFG CO
Marquart Millwork Co
Missoula White Pine Sash Co
Morgan Sash & Door Co
Pacific Mutual Door Co
Roach & Musser Co
Rock Island Millwork Co
Segelke & Kohlhaus Co
Seneca Lumber & Millwork Co
Silverside Co
Suedaker (Frank C) & Co Inc
Soudkane Pine Products Co
Spokane Sash & Door Co
WEYERHAEUSER SALES CO
White Pine Sash Co

► FRAMING, STEEL

Alabama Metal Lath Co
American Bridge Co
Bethlehem Steel Co
Brasco Mfg Co
Incarut Iron & Steel Co
Fries & Son
GREAT LAKES STEEL CORP
INLAND STEEL PRODUCTS CO
International Steel Co
JONES & LAUGHLIN STEEL CORP
LACLEDE STEEL CO
Macomber Inc
MESKER (GEORGE L) STEEL CORP
NATIONAL GYPSUM CO
PENN METAL CO INC
REPUBLIC STEEL CORP
Sotile Steel Co
Southern Wire & Iron Works
STRAN STEEL DIV GREAT LAKES STEEL CORP
TENNESSEE COAL IRON & RR CO
TRUCON STEEL CO
Unistrut Products Co
UNITED STEEL FABRICATORS INC
Wheeling Corrugating Co

► FRONTS, STORE

BINSWANGER & CO
Brasco Mfg Co
Compo Miracle Products Co
Fentron Steel Works Inc
GENERAL BRONZE CORP
General Porcelain Enameling & Mfg Co
Jugan-Robinson Mfg Co
KAWNEER CO
LIBBEY-OWENS FORD GLASS CO
Nator Inc
Newman Brothers Inc
Parlor (S) Hardware Mfg Co
Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO
Seaport Porcelain Metals Inc
Robm & Haas Co
Wolverine Porcelain Enameling Co

► FUNGICIDES

American Cyanamid Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
California Spray Chemical Corp
Central Chemical Corp
Dow Chemical Co
General Chemical Div Allied Chemical & Dye Corp
Grasso-H Chemical Dept Du Pont (E I) de Nemours & Co Inc
Hammond Patot & Chemical Co
MONSANTO CHEMICAL CO
PITTSBURGH PLATE GLASS CO
Robm & Haas Co Inc
SHERWIN-WILLIAMS CO
Wood Treating Chemicals Co

► FURNACE PIPE & FITTINGS

Badger Corrugating Co
Hopson (W C) Co
INLAND STEEL PRODUCTS CO
Krauser-Burd Inc
La Crosse Steel Roofing & Corrugating Co
Lyman (H B)
MAJESTIC CO
MUELLER (L J) FURNACE CO
Northwest Metal Products Inc
Penn Supply & Metal Corp
Reeves Steel & Mfg Co
Sioux Steel Co
Waterman-Waterbury Co
Wheeling Corrugating Co
Williams-Wallace Co
WILLIAMSON HEATER CO

► FURNACES, CHIMNEY

AIRTEMP DIV CHRYSLER CORP

► FURNACES, COAL

AIRTEMP DIV CHRYSLER CORP
American Foundry & Furnace Co
AMERICAN RADIATOR & STANDARD SANITARY CORP
Anchor Div Stratton & Terstegge Co Inc
Armstrong Furnace Co
Clayton & Lambert Mfg Co

Conco Engineering Works Div Conkey (H D)

CRANE COMPANY
Dowagiac Steel Furnace Co
Excelsior Stove & Mfg Co
Henry Furnace Co
HESS CO
Holland Furnace Co
Homer Furnace & Foundry Corp
Ingersoll Steel Div Borg-Warner Corp
International Heater Co
Iron Fineman Co
Krauser-Burd Inc
Lennox Furnace Co
Locke Stove Co
MAJESTIC CO
MUELLER (L J) FURNACE CO
MEYER FURNACE CO
NORGE HEAT DIV BORG-WARNER CORP
Oilux Co
Olson (C A) Mfg Co
Pioneer Co
Rybolt Heater Co
Thatcher Furnace Co
Waterman-Waterbury Co
Wayne Home Equipment Co
Wheeling Furnace Corp
WILLIAMSON HEATER CO

► FURNACES, CONVERTIBLE, COAL, OIL, OR GAS

American Foundry & Furnace Co
International Heater Co
MEYER FURNACE CO
NORMAN PRODUCTS CO
WILLIAMSON HEATER CO

► FURNACES, COUNTERFLOW UNITS

DELCO APPLIANCE DIV GENERAL MOTORS CORP
EMPIRE STOVE CO
HESS CO
International Heater Co
International Oil Burner Co
KAUSTINE CO INC
Lennox Furnace Co
MEYER FURNACE CO
NORMAN PRODUCTS CO
RICHMOND RADIATOR CO
WILLIAMSON HEATER CO

► FURNACES, FLOOR

AIRTEMP DIV CHRYSLER CORP
AMERICAN RADIATOR & STANDARD SANITARY CORP
Armstrong Furnace Co
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC
Cox-Hor Blast Mfg Co
COLEMAN CO INC
Crescent Heater Corp
EMPIRE STOVE CO
Estate Stove Co Div Noma Electric Co
Excelsior Stove & Mfg Co
Evans Products Co
Gillen (J L) Co
Holly Mfg Co
Hotstream Heater Co
International Oil Burner Co
Jetronaire Inc
Kaustine Co
Kresky Mfg Co
Kresno Stamm Mfg Corp
Lennox Furnace Co
Little (H C) Burner Co
Lorenz Mfg Co
Motor Wheel Corp Duo Therm Div
NORGE HEAT DIV BORG-WARNER CORP
NORMAN PRODUCTS
Northwest Metal Products Inc
Oilux Co
Payne Furnace Co
Perfection Stove Co
Pioneer Co
Premier Furnace Co
Prentiss Waters Products Co
Queen Stove Works
Reliance Mfg Co
RHEEM MFG CO
Rudy Furnace Co
Surface Combustion Corp
TEMCO INC
Tennessee Enamel Mfg Co
TIMKEN SILENT AUTOMATIC DIV TIMKEN-DETROIT AXLE CO
T S Machine Corp
Utility Appliance Corp
Viking Mfg Corp
Wayne Home Equipment Co

► FURNACES, GAS FIRED

AIRTEMP DIV CHRYSLER CORP
American Foundry & Furnace Co
American Gas Machine Co
AMERICAN RADIATOR & STANDARD SANITARY CORP
Bard Mfg Co
Bergner Furnace Mfg Co
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC
Century Engineering Corp
Clayton & Lambert Mfg Co
Cleveland Steel Products Co Torldbeet Div
COLEMAN CO INC

Conco Engineering Works Div Conkey (H D)

Coultre Heater Corp
DELCO APPLIANCE DIVISION GENERAL MOTORS CORP
Dowagiac Steel Furnace Co
Duo-Therm Div Motor Wheel Corp
EMPIRE STOVE CO
Excelsior Stove & Mfg Co
GENERAL ELECTRIC CO AIR CONDITIONING DEPT
H-E Company
Henderson Furnace & Mfg Co
Henry Furnace Co
HESS CO
Hoock & Ackerman Inc
Homer Furnace Co
Homer Furnace & Foundry Corp
International Oil Burner Co
Ko-Z-Air Inc
Kresky Mfg Co
MAJESTIC CO
MEYER FURNACE CO
MORRISON STEEL PRODUCTS INC
MUELLER (L J) FURNACE CO
NORGE HEAT DIV BORG-WARNER CORP
NORMAN PRODUCTS CO
Payne Furnace Co
Perfection Stove Co
Pioneer Co
Queen Stove Works
RHEEM MFG CO
Silent Sioux Oil Burner Corp
Steel City Furnace Co
Surface Combustion Corp
Thatcher Furnace Co
Waterman-Waterbury Co
Wayne Home Equipment Co
WILLIAMSON HEATER CO

► FURNACES, OIL FIRED

Aerol Products Inc
American Foundry & Furnace Co
American Gas Machine Co
AMERICAN RADIATOR & STANDARD SANITARY CORP
Armstrong Furnace Co
Bard Mfg Co
Bergner Furnace Mfg Co
BRYANT HEATER DIV
Affiliated Gas Equipment
Century Engineering Corp
COLEMAN CO
Conco Engineering Works Conkey (H D) Co
DELCO APPLIANCE DIV GENERAL MOTORS CORP
Delta Heating Corp
Dowagiac Steel Furnace Co
Duo-Therm Div Motor Wheel Corp
Evans Products Co
Fluid Heat Div Anchor Post Products Inc
GENERAL ELECTRIC CO AIR CONDITIONING DEPT
Gilbert & Barker Mfg Co
Gillen (J L) Co
Hart Oil Burner Div Avery Farm Machinery Co
Heli Company
Henry Furnace Co
HESS CO
Homer Furnace & Foundry Corp
International Heater Co
International Oil Burner Co
Ko-Z-Air Inc
Kresky Mfg Co
Kresno Stamm Mfg Co
Little (H C) Burner Co
MAJESTIC CO
MEYER FURNACE CO
MORRISON STEEL PRODUCTS INC
MUELLER (L J) FURNACE CO
National Airoil Burner Co
NORGE HEAT DIV BORG-WARNER CORP
Perfection Stove Co
Petroleum Heat & Power Co
Pioneer Co
Reliance Mfg Co
RICHMOND RADIATOR CO
Silent Sioux Oil Burner Corp
Thatcher Furnace Co
Waterman-Waterbury Co
Wayne Home Equipment Co
WILLIAMSON HEATER CO
YORK-SHIPLEY INC

► FURNACES, SUSPENDED

Cox Mfg Co
Gilbert & Barker Mfg Co
Jackson & Churel
MEYER FURNACE CO
MUELLER (L J) FURNACE CO
NORGE HEAT DIV BORG-WARNER CORP
NORMAN PRODUCTS CO
Perfection Stove Co

► FURNACES, WALL

EMPIRE STOVE CO
Kresky Mfg Co
NORMAN PRODUCTS CO
Northwest Metal Products Inc
ONEIDA FOUNDRY & MFG CO
Royal Heaters Inc
TEMCO INC
T S Machine Corp

► FURNITURE, BUILT-IN

BIANCO MFG CO

Ideal Co
Morgan Co

► FUSE BOXES, ELECTRIC SERVICE

Adam (Frank) Electric Co
All-Steel Equipment Co Inc
Arrow Hart & Hageman Elec Co
Cole Electric Products Div Federal Electric Products Co
Columbia Metal Box Co
Electrical Engineers Equipment Co
Federal Electric Products Co
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
Kees (F D) Mfg Co
Leonard Electric Mfg Co
Porcelain Products Inc
WESTINGHOUSE ELECTRIC CORP
Wurdack (Wm) Electric Div Federal Electric Prods Co

► GARBAGE DISPOSERS

AMERICAN CENTRAL DIV AVCO MFG CORP
AMERICAN RADIATOR & STANDARD SANITARY CORP
APEX ELECTRICAL MFG CO
Berger (Thomas W) Inc
CROSLBY DIV AVCO MFG CORP
GENERAL ELECTRIC CO APPLIANCE & MERCHANDISE DEPT
GIVEN MFG CO
HOTPOINT INC
IN-SINK-ERATOR CO
KELVINATOR DIV NASH-KELVINATOR CORP
London Furniture Co
MULLINS MFG CORP
National Rubber Machinery Co
Calculator Div
Valley Welding & Boiler Co
WESTINGHOUSE ELECTRIC CORP
Williams Oil-O-Matic Div Eureka-Williams Corp

► GAS, BOTTLED

American Liquid Gas Corp
Blueflame Corp
Carbide & Carbon Chemicals Div Union Carbide & Carbon Corp
Delta Tank Mfg Co Inc
Dri-Gas Corp
Harms Oil Co
Nitrogen Inc
Omaha Blaugas Co
Phillips Petroleum Co
Protane Corp
Pryofax Gas Div Union Carbide & Carbon Corp
Shell Oil Co Inc
Shelgas Div Shelly Oil Co
Standard Oil Co
Universal Bottle Gas Co

► GASKETS, SEWER PIPE

American Vitrited Products Co
CRANE COMPANY
Evans Pipe Co
JOHNS-MANVILLE CORP
NATIONAL CLAY PIPE MFRS INC
Robinson Clay Product Co
Universal Concrete Pipe Co Inc
Universal Sewer Pipe Corp
Zurn (J A) Mfg Co

► GATES, FARM

AMERICAN STEEL & WIRE CO
CECO STEEL PRODUCTS CORP
Clay Equipment Corp
Colours Mfg Co
COLORADO FUEL & IRON CORP
Continental Steel Corp
CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
Dare Products Inc
Franklin Equipment Co
General Implement Corp
Hicks Gate Co
Illinois Wire & Mfg Co
Indiana Steel & Wire Co
James Mfg Co
Johnson Industries Inc
KEYSTONE STEEL & WIRE CO
Mid-States Steel & Wire Co
NICHOLS WIRE & ALUMINUM CO
Northwestern Steel & Wire Co
Pittsburgh Steel Products Co
Purifoy Products Co
REPUBLIC STEEL CORP
ROWE MFG CO
Sheffield Steel Corp
Standard Mfg Co
TENNESSEE COAL IRON & RAILROAD CO
Vaccinal Products Corp
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP

► GATES, FOLDING

CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
Howell Mfg Co
Meyers (Fred L) Mfg Co
Stewart Iron Works Co Inc

► GATES, WROUGHT IRON

Anchor Post Fence Div Anchor Post Products Inc
Badger Wire & Iron Works Inc

AMERICAN BUILDER

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

COFFMAN (R G) CO INC
CYCLONE FENCE DIV AMERICAN STEEL
 & WIRE CO
 Edwards Mfg Co
KEYSTONE STEEL & WIRE CO
 Locke Mfg Co
METAL CRAFTERS
 Stewart Iron Works Co Inc

GAUGES, CRAFTSMAN
 Atkins (E C) Div Borg Warner Corp
 Bache (Semon) & Co
 Consolidated Machinery & Supply Co Ltd
 Disston (Henry) & Sons Inc
LUFKIN RULE CO
 Millers Falls Co
 Starrett (L S) Co
 Tannewitz Works
 Union Tool Co

GAUGES, SAW
 Atkins (E C) Div Borg Warner Corp
 Disston (Henry) & Sons Inc
 PTI Incorporated
 Sandvik Saw & Tool Corp
SIMMONS SAW & STEEL CO
 Terrill (D D) Saw Co

GIRDERS, WOOD
LONG-BELL LUMBER CO
RILCO LAMINATED PRODUCTS CO
 Timbeam
 Unit Structures Inc
WEYERHAEUSER SALES CO

GLASS, ARCHITECTURAL & ORNAMENTAL

American Structural Products Co
 Bache (Semon) & Co
 Dearborn Glass Co
 Hagemann Cos Inc
LIBBEY-OWENS-FORD GLASS CO
MISSISSIPPI GLASS CO
 Nurte Cos Inc
 Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO
 Royal Glass Works Corp
 Safetee Glass Co
 Shower Door Co of America
 Technical Glass Co Inc
 U S Glass Co
U S PLYWOOD CORP

GLASS BLOCK
 Hagemann Companies Inc
INSULUX PRODUCTS DIV OWENS-ILLINOIS
GLASS CO
KIMBLE GLASS CO
 Lasting Products Co
PITTSBURGH CORNING CORP DIV PITTS-
BURGH PLATE GLASS CO

GLASS, COLORED

Canton Glass Co Inc
 Franklin Glass Corp
LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO

GLASS CUTTER'S RULES

Burrett (William L)
LUFKIN RULE CO
PITTSBURGH PLATE GLASS CO

GLASS CUTTING MACHINES

PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS

GLASS DOUBLE PANE

American Window Glass Co
LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO

GLASS HOLDER, AUTOMATIC MEASURING

Heller (W C) & Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS

GLASS, PLATE

Bache (Semon) & Co
 Franklin Glass Corp
 Glaziers' Tool Mfg Co
 Hagemann Cos Inc
LIBBEY-OWENS-FORD GLASS CO
 National Mirror Works
 Nurte Cos Inc
PITTSBURGH PLATE GLASS CO
 Royal Glass Works Corp
 Safetee Glass Co

GLASS, PLATE, HEAT ABSORBING

LIBBEY-OWENS-FORD GLASS CO
MISSISSIPPI GLASS CO
 Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO

GLASS, PLATE, INSULATING

LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO

GLASS SETTINGS, STRUCTURAL

Brasco Mfg Co
PITTSBURGH PLATE GLASS CO

GLASS, STRUCTURAL

Bache (Semon) & Co
BLUE RIDGE DIV LIBBY-OWENS FORD
GLASS CO
 Brasco Mfg Co
 Conroy-Prough Glass Co
 Franklin Glass Corp
 Hagemann Cos Inc
LIBBEY-OWENS-FORD GLASS CO
 Mississippi Glass Co
 National Mirror Works
 Nurte Cos Inc
 Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO
 Royal Glass Works Corp

GLASS, SUBSTITUTE

Ace Window Screen Co of America
 Arvey Corp
 Celanese Corp of America Plastics Div
 Clark Wire & Supply Co
 Du Pont (E I) de Nemours & Co
 Henschel (C B) Mfg Co
 Plexolite Sales Co
RESOLITE CORP
 Sol-O-Lite Mfg Co
 Turner Brothers
 Warp Brothers

GLASS, WINDOW

American Window Glass Co
 Bache (Semon) & Co
 Conroy-Prough Glass Co
 Dearborn Glass Co
 Foutco Glass Co
 Hagemann Cos Inc
 Harding Glass Co
LIBBEY-OWENS-FORD GLASS CO
 Nurte Cos Inc
PITTSBURGH PLATE GLASS CO
 Rock Island Millwork Co
 Royal Glass Works Corp

GLASS, WINDOW, WIRE

Bache (Semon) & Co
 Blue Ridge Glass Corp
 Clark-Babbitt Industries Inc
 Conroy-Prough Glass Co
 Dearborn Glass Co
 Hagemann Cos Inc
 Harding Glass Co
 Hoosier Sash & Door Co
LIBBEY-OWENS-FORD GLASS CO
MISSISSIPPI GLASS CO
 National Mirror Works
 Nurte Cos Inc
 Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO
 Royal Glass Works Corp

GLAZIERS' POINTS

Barrett (W L) Co
 Black Panther Tool Co
 Fletcher-Terry Co
 Glaziers' Tool Mfg Co
 Holland Mfg Co
 Markwell Mfg Co Inc
 Maze (W H) Co
 National Sheet Metal Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
 York Tack & Nail Works

GLAZING COMPOUNDS

Abesto Mfg Corp
 Armstrong Co
 Biddle Co
 Briggs-Maroney Co Inc
CALBAR PAINT & VARNISH CO
 Christy Co Inc
 Dad & Lad Co
 Devoe & Reynolds Co Inc
 Dieks-Pontius Co
 Donley Brothers
 Elliott Paint & Varnish Co
 Fort Pitt Chemical Co
 Gibson-Homans Co
 Goodrich (B F) Co
 Harris Inc
 Horn (A C) Co
 Keystone Asphalt Products Co
 King (E F) & Co Inc
 Landen Putty Works
 Lasting Products Co
 Lowe Brothers
MACKLANBURG-DUNCAN CO
 Mar-Kay Mfg Co
 McLaughlin (W W) & Co
 Minnesota Mining & Mfg Co
MORTELL (J W) CO
 Parker Ira & Sons Co
PECORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
 Plastic Products Co
 Presstite Engineering Co
 Sonneborn (L) Sons Inc
 Stearns Mfg Co
STERLING PAINT & VARNISH CO

Sullivan Co
 Tammis Industries Inc
 Tremco Mfg Co
 Trucon Laboratories Div Devoe & Reynolds
 Inc
 United Gilsonite Laboratories

GLAZING, TRANSPARENT PLASTIC

ALSYNITE CO OF AMERICA
 Arvey Corp
 Celanese Corp of America Plastics Div
 Dobeckum Co
 Plexolite Corp
 Rohm & Haas Co
 Sol-O-Lite Mfg Co
 Warp Brothers

GLUE, CASEIN

Aetna Plywood & Veneer Co
 American Cyanamid Co
 Borden Co Chemical Div
 Consumers Glue Co
 Davin Plywood Corp
 Franklin Glue Co
 Hayes Adhesives Co
 Hewitt (C B) & Brothers Inc
 Lacton Glue Mfg Co
 LePage's Inc
 Monite Waterproof Glue Co
MONSANTO CHEMICAL CO
 National Casein Sales
 Paisley Products Inc
 Perkins Glue Co
RESOLITE CORP
 Stay-Tite Products Co
 Tammis Industries Inc
U S PLYWOOD CORP

GLUE, COLD WATER

Aetna Plywood & Veneer Co
 Armour & Co Fertilizer Works Div
 Borden Co Chemical Div
 Consumers Glue Co
 Crescent Products Co
 Franklin Glue Co
 Fuller (H B) & Co
 Hewitt (C B) & Brothers Inc
 Lacton Glue Mfg Co
 LePage's Inc
 Monite Waterproof Glue Co
MONSANTO CHEMICAL CO
 National Casein Sales
 Paisley Products, Inc
 Perkins Glue Co
RODDIS PLYWOOD CORP
 Tammis Industries Inc
 Thornton (L M) Mfg Co Inc
U S PLYWOOD CORP

GLUE, LIQUID

Borden Co Chemical Div
 Carvers Ink Co
 Franklin Glue Co
 International Glue Co
 Keystone Glue Co
 National Adhesives Div National Starch
 Products Inc
PITTSBURGH PLATE GLASS CO
 Rogers Intinglass & Glue Co
 Standard Paste & Glue Co Inc
 Testor Chemical Co
U S PLYWOOD CORP

GLUE, RESIN

Aetna Plywood & Veneer Co
 American Cyanamid Co
 Borden Co Chemical Div
 Catalin Corp of America
 Davis Plywood Corp
 DuPont (E I) de Nemours & Co Inc
 Franklin Glue Co
 Fuller (H B) Co
 Hayes Adhesives Co
 Hewitt (C B) & Brothers Inc
 LePage's Inc
 Milwaukee Plywood Co
MIRACLE ADHESIVES CORP
 Monite Waterproof Glue Co
MONSANTO CHEMICAL CO
 National Casein Sales
 Paisley Products Inc
 Perkins Glue Co
 Resinous Products & Chemical Co Inc
RODDIS PLYWOOD CORP
 Rohm & Haas Co
 Standard Paste & Glue Co Inc
 U S Mengel Plywoods Inc
U S PLYWOOD CORP
 Wellman Products Co

GLUE, WATERPROOF

Aetna Plywood & Veneer Co
 American Cyanamid Co
 Borden Co Chemical Div
 Christy Co Inc
 Consumers Glue Co
 DuPont (E I) de Nemours & Co Inc
 Franklin Glue Co
 Hewitt (C B) & Brothers Inc
 LePage's Inc
 Minnesota Mining & Mfg Co
MIRACLE ADHESIVE CORP

Monite Waterproof Glue Co
MONSANTO CHEMICAL CO
 National Casein Sales
 Nicholson & Co
 Paisley Products Inc
 Perkins Glue Co
 Placo Div Paisley Products Inc
PLASKON DIV LIBBEY-OWENS-FORD
GLASS CO
 Resinous Products & Chemical Co Inc
RODDIS PLYWOOD CORP
 Rohm & Haas Co
 Standard Paste & Glue Co Inc
 Stay-Tite Products Co
 Technical Supply Co
 U S Mengel Plywoods Inc
U S PLYWOOD CORP

GRATINGS

Adams Co
 Allen Steel Products
CINCINNATI IRON FENCE CO
 Donley Brothers Co
 Hendrick Mfg Co
 Industrial Iron Works
 Locke Mfg Co
 Logan Co
 Marion Machine Foundry & Supply Co
 Murray (D J) Mfg Co
ST PAUL CORRUGATING CO
U S GYPSUM
 Western Foundry Co
 Wheeling Corrugating Co
 Zurn (J A) Mfg Co

GRATINGS, AREAWALL

ARTCRAFT ORNAMENTAL IRON CO
BELSON MFG CO
 Donley Brothers Co
 Harris Inc
 Industrial Iron Works
MAJESTIC CO
 Smith (F P) Wire & Iron Works
ST PAUL CORRUGATING CO
 Sweet Iron Works

GRILLES, FIREPLACE

BENNETT-IRELAND INC
 Brewer-Titchener Corp
 Donley Brothers Co
HEATILATOR INC
 Industrial Iron Works
MAJESTIC CO
 Master Metal Products Co
 Meyers (Fred) Mfg Co
 Ohio Stove Co
 Price Fireplace Co
 Silent Glow Oil Burner Corp
 Southern Barbeque-Grill Co
SUPERIOR FIREPLACE CO
 U S Register Co

GRILLES, METAL

AIR CONTROL PRODUCTS INC
ARTCRAFT ORNAMENTAL IRON CO
 Bellink Co
BELSON MFG CO
COLORADO FUEL & IRON CORP
 Cornell Rolling Door Works
 Decatur Iron & Steel Co
 Donley Brothers Co
 Harris Inc
 Hart & Cooley Mfg Co
HEATILATOR INC
 Hendrick Mfg Co
 Industrial Iron Works
 Kentucky Metal Prods Co
 Krauser-Bord Inc
 Lockjoint Wood Products Co
 Logan Co Inc
MACKLANBURG-DUNCAN CO
MAJESTIC CO
 Newman Brothers Inc
 Smith (F P) Wire & Iron Works
 Southern Wire & Iron Works
 Stewart Iron Works Co Inc
 Trane Company
 U S Register Co
 Wellman Products Co

GRILLES, OUTDOOR COOKING

BENNETT-IRELAND INC
CHATTANOOGA IMPLEMENT & MFG CO
 Donley Bros Co
 Homer Furnace & Foundry Corp
INLAND STEEL PRODUCTS CO
MAJESTIC CO
 Master Metal Products Co
 Price Fireplace Co
 Silent Glow Oil Burner Corp

GRILLES, RADIATOR

AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
 Amer Register Co
 American Register Co
 Bramer (J G) Co
 Columbia Metal Box Co
 Garden City Plating & Mfg Co
 Meyers (Fred L) Mfg Co
 Parker (S) Hardware Mfg Corp
 U S Register Co
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP

GRILLES, SCREEN DOOR

AIR CONTROL PRODUCTS INC
 Allen Steel Products
ARTCRAFT ORNAMENTAL IRON CO

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Bellkool Co
Chamberlain Co of America Inc
COFFMAN (R G) CO INC
Decatur Iron & Steel Co
Dennis (W J) & Co
Eveready Co
Hawkins Iron Co
Hutchinson Co
Kentucky Metal Products Co
Logan Co
MACKLANBURG-DUNCAN CO
METAL CRAFTERS
Meyers (Fred L) Mfg Co
National Guard Products Inc
Ornamental Metal Works
Parker (S) Hardware Mfg Co
Protect Weatherstrip Mfg Co
Robbins Mfg Co
Sumose (Wm J) Iron Co
Smith (F P) Wire & Iron Works
Southern Wire & Iron Works

► GRILLES, WINDOW

AIR CONTROL PRODUCTS INC
Aluminum Window Corp
Chamberlain Co of America Inc
CINCINNATI IRON FENCE CO
CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
Fisale Equipment Mfg Co
Logan Co
METAL CRAFTERS
Meyers (Fred L) Mfg Co
National Guard Products Inc
Newman Brothers Inc
Robbins Mfg Co

► GRINDERS, BENCH & FLOOR

Albertson & Co Inc
ATLAS PRESS
BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
Bridgeport Safety Emery Wheel Co
Champion Blower & Forge Co
Cincinnati Electrical Tool Div LeBlond
(E K) Machine Tool Co
Clizbe Brothers Mfg Co
Diehl Mfg Co Div Electrical Div Singer
Mfg Co
Dunmore Co
Hanchett Mfg Co
INDEPENDENT PNEUMATIC TOOL CO
Lippmann Engineering Works
MALL TOOL CO
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
Newman Machine Co
Poly Products
PORTER-CABLE MACHINE CO
ROCKWELL MFG CO DELTA POWER TOOL DIV
SKIL CORP
Speed Way Mfg Co
Standard Electrical Tool Co
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
U S Electrical Tool Co
Vonnegut Moulder Corp
Walker-Turner Div Kearney Tractor Corp
Wisconsin Abrasive Mfg Co

► GRINDERS, ELECTRIC PORTABLE

BLACK & DECKER MFG CO
Chicago Pneumatic Tool Co
Chicago Wheel & Mfg Co
Colloid Emulsion Co Inc
Diehl Mfg Co Electrical Div Singer Mfg Co
DREMEL MFG CO
Duro Metal Products Co
INDEPENDENT PNEUMATIC TOOL CO
Lima Electric Motor Co
MALL TOOL CO
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
Newman Machine Co
PORTER-CABLE MACHINE CO
Portable Electric Tools Inc
SKIL CORP
Speedway Mfg Co
STANLEY WORKS
SYNTRON CO
U S Electric Tools Co

► GROOVERS

Atkins (E C) Div Borg Warner Corp
Elstrom Carlson & Co
Goldblatt Tool Co
Huthier Brothers Saw Mfg Co Inc
MACKLANBURG-DUNCAN CO
Mayes Brothers Tool Mfg Co
Wilson Saw Div Media Machine Works Inc

► GUARDS, AREAWALL

Brainerd Steel Co
ST PAUL CORRUGATING CO
Sharon Steel Co
UNITED STEEL FABRICATORS INC

► GUARDS, ROOF & SNOW

CHASE BRASS & COPPER CO

► GUARDS, SAW

Atkins (E C) Div Borg Warner Corp
Beach Mfg Co
BOICE CRANE CO
Fay (J A) & Egan Co

Huthier Brothers Saw Mfg Co Inc
Logan Co Inc
Oliver Machinery Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
Yates-American Machine Co

► GUARDS, WHEEL

Adams Co
Dunley Brothers Co
Fisher (J W) Iron Works
Hawkins Iron Co Inc
Industrial Iron Works
International Steel Co
Logan Co
MAJESTIC CO
Mesler Brothers
Sweet (A L) Iron Works
Western Foundry Co
Wheeling Corrugating Co

► GUARDS, WINDOW

Adams Co
AIR CONTROL PRODUCTS INC LEIGH BUILDING PRODUCTS DIV
ARTCRAFT ORNAMENTAL IRON CO
Bridger Wire & Iron Works Inc
CINCINNATI IRON FENCE CO
Clay Equipment Corp
CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
Edwards Mfg Co
Grand Rapids Wire Products Co
Hawkins Iron Co
Hopewell Mfg Co
Kentucky Metal Products Co
Locke Mfg Co
LOCKWOOD HARDWARE MFG CO
Logan Co
MACKLANBURG-DUNCAN CO
Mesler Brothers
MESKER (GEORGE L) STEEL CORP
METAL CRAFTERS
Meyers (Fred L) Mfg Co
NATIONAL BRASS CO
National Guard Products
Ney Mfg Co
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Slaymaker Lock Co
Smith (F P) Wire & Iron Works
Southern Wire & Iron Works
Standard Bronze Co
Starline Inc
Stewart Iron Works Co Inc
Wheeling Corrugating Co

► GUMMERS, SAW

Atkins (E C) Div Borg Warner Corp
Champion Blower & Forge Co
Chicago Wheel & Mfg Co
FOLEY MFG CO
General Hardware Corp
Hanchett Mfg Co
Macklin Co
Mid-West Abrasive Co
Norton Co
Rogers (Samuel C) & Co
Wisconsin Abrasive Mfg Co

► GUNS, CAULKING & GLAZING

Abesto Mfg Co
Biddle Co
CALBAR PAINT & VARNISH CO
CENTRAL METAL STRIP CO
Dennis (W J) & Co
Dewese & Reynolds Co Inc
Dunley Brothers Co
Electric Spray Co
Felton Sibley & Co Inc
Ford Roofing Products Co
Fort Pitt Chemical Co
Gibson-Humans Co
Glaziers' Tool Mfg Co
Goldblatt Tool Co
Harris Inc
Jorn (A C) Co Inc
JOHNS-MANVILLE CORP
Kenmar Mfg Co
Lastik Products Co Inc
MACKLANBURG-DUNCAN CO
National Guard Products Inc
PECORA PAINT CO
PITTSBURGH PLATE GLASS CO
Plastic Products Co
Protect Weatherstrip Mfg Co
Robbins Mfg Co
Seal Rite Caulking Co
Steelcote Mfg Co
Stewart-Warner Corp
Tammis Industries Inc
Trenn Mfg Co
Vital Products Mfg Co
Webster (W F) Cement Co
Western Reserve Mfg Co

► GUNS, PNEUMATIC CONCRETE APPLICATION

Calotcrete Industries Inc
CONSTRUCTION MACHINERY SALES CO
Gunito Construction Corp
MacLeod Co

► GUTTERS, METAL

Alabama Metal Lath Co
American Brass Co
Arizona Sales Co
Armo Steel Corp
Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Cincinnati Sheet Metal & Roofing Co
Edwards Mfg Co
Harrison Steel Cabinet Co
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
Klauer Mfg Co
Krauser-Boyd Inc
LaTrosse Steel Roofing & Corrugating Co
Lyon Conklin & Co Inc
Mid-States Steel & Wire Co
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
Northwest Metal Products Inc
Penn Supply & Metal Corp
Revere Steel & Mfg Co
Revere Copper & Brass Inc
REYNOLDS METALS CO BLDG PRODUCTS DIV
ST PAUL CORRUGATING CO
Stout Steel Co
Wheeling Corrugating Co
Willis Steel Corp

► GUTTERS, WOOD

Aloha Lumber Co
American Lumber & Treating Co
Arrow Tank Co Inc
Dolbeer & Carson Lumber Co
Duncan Fir Gutter Co Inc
Fordyce-Crossett Lumber Co
Hammond Lumber Co
Holmes-Rarick Lumber Co
Hulbert (William) Mill Co
LONG-BELL LUMBER CO
Long Fir Gutter Co
Mutual Fir Column Co
Union Lumber Co
Washington Mfg Co
Willamette Valley Lumber Co
WEYERHAEUSER SALES CO

► GYPSUM

CELOTEX CORP
NATIONAL GYPSUM CO
U S GYPSUM CO

► HAMMERS, HAND, ALL TYPES

ARROW FASTENER CO
Barealo Mfg Co
BOSTITCH INC
Billings & Spencer Co
Burgess Fastening Co
Capwell Mfg Co
Champion-DeArment Tool Co
Cheney (Henry) Hammer Corp
David-Maydole Tool Corp
Estwing Mfg Co
Fairmont Tool & Furging Co
FASTENER CORP
Goldblatt Tool Co
Graham (John H) & Co
Heller Brothers Co
Holtzclaus (E H) Co
Hubbard & Co
Leontina Tool Corp
Marion Tool Corp
Markwell Mfg Co Inc
Mayhew Steel Products Inc
Mephisto Tool Co Inc
Ox-Wall Tool Co
P & C Hand Forged Tool Co
Peck Stow & Wilcox Co
Phoenix Hardware Mfg Co
Phoenix Mfg Co
Plumb (Fayette R) Inc
Proto Tool Co
RED DEVIL TOOLS
Solek & Walter Et & Co
STANLEY TOOLS DIV STANLEY WORKS
True Temper Corp
Vaughan & Bushnell Mfg Co
Vielch Tool Co

► HAMMERS, MAGNET

PITTSBURGH PLATE GLASS CO

► HAMMERS, PNEUMATIC

Azor Products
Ingersoll-Rand Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► HAMMERS, PORTABLE ELECTRIC

Allied Tools Inc
BLACK & DECKER MFG CO
Chicago Pneumatic Tool Co
Goldblatt Tool Co
HOMERITE CORP
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO

Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
SKIL CORP
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
SYNTRON CO
Van Dorn Electric Tool Co
Wodack Electric Tool Corp

► HAMPERS, BUILT-IN CLOTHES

National Metal-Art Mfg Co
Standard Steel Cabinet Co

► HANDLES FOR AXE, PICK, SLEDGE, HATCHET

Amos (Charles H) Handle Co
Bruner-Ivory Handle Co
Buckeye Handle Works Co
Cheeseborough (Thos E)
Chicago Wood & Plastic Products
Cooke (B F) Mfg Co
Diston (Henry) & Sons Inc
Dowel House
Estes (E B) & Sons Inc
Greenslate Mfg Co
Hartwell Bros
Imperial Handle Mfg Co
Madden Handle Co
Marion Handle Mills Inc
National Aluminum Co
O'Brien-Bishop Mfg Co
Proto Tool Co
South Bend Dowel & Mfg Co
Stiles (H A) Co
Strock (L W) & Co
Swan Handle Corp
Syracuse Alloy Metals Corp
True Temper Corp
Union Fork & Hoe Co
Union Hardware Co

► HANGARS, AIRPLANE

Blaw-Knox Div Blaw-Knox Co
Butler Mfg Co
International Steel Co
MESKER (GEORGE L) STEEL CORP
RILCO LAMINATED PRODUCTS CO
STEELCRAFT MFG CO
TIMBER STRUCTURES INC
TRUSCON STEEL CO
Unit Structures Inc
UNITED STEEL FABRICATORS INC

► HANGERS, BATHTUB

AMERICAN RADIATOR & STANDARD SANITARY CORP
KOHLER CO
LUCIKE (WILLIAM B) INC
Tiltwall Hanger Co
Zuru (J A) Mfg Co

► HANGERS, EAVE TROUGH & CONDUCTOR PIPE

Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Henson (W C) Co
INLAND STEEL PRODUCTS CO
Mid-States Steel & Wire Co
New Holland Metals Co
Ohio Corrugating Co
Penn Supply & Metal Corp
REYNOLDS METALS CO BUILDING PRODUCTS DIV
UNITED STATES STEEL CO
Wheeling Corrugating Co

► HANGERS, INSULATION

DeVries Inc
JOHNS-MANVILLE CORP
MIRACLE ADHESIVES CORP
MOORE (GOODLOE E) CO

► HANGERS, JOIST & LUMBER

Adams Co
Allen Steel Products Co
Cleveland Steel Specialty Co Inc
Consolidated Iron-Steel Mfg Co
Conver Steel & Wire Co
COFCO STEEL & ENGINEERING CO
Decatur Iron & Steel Co
Dunley Brothers Co
Duplex Hanger Co
Gabriel Steel Co
Hohmann & Barnard Inc
Hooking Paper & Supply
Ideal Hanger Co
Lanebro Mfg Co
Soule Steel Co
Timber Engineering Co
WAGNER MFG CO

► HANGERS, METAL LATH

BERGER MFG DIV REPUBLIC STEEL CORP
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
PENN METAL CO INC
Soule Steel Co
TRUSCON STEEL CO
U S GYPSUM

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

► HANGERS, PIPE & CONDUIT

Acme Pipe Strap Co
Carpenter & Patterson Inc
Copperweld Steel Co
Diamond Expansion Bolt Co
General Fittings Co
Hubbard & Co
Illinois Malleable Iron Co
Malleable Iron Fittings Co
PAINE COMPANY
Signode Steel Strapping Co
Victor Specialties
Youngstown Mfg Inc

► HARDBOARD, ASPHALT

Meadows (W R) Inc

► HARDBOARD, COMPOSITION & FIBROUS, DECORATIVE

Ariza Plywood & Veneer Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV
BUTLER (H B) MFG CO INC
CELOTEX CORP
Champo Sales
CURTIS COMPANIES INC
DANT & RUSSELL
Fir-Tex Insulating Board Co
FLINKTOTE CO
Forest Fiber Products Co
HOMASOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Kimberly-Clark Corp
LONG BELL LUMBER CO
Lustrwood Process Co
MASONITE CORP
Meadows (W R) Inc
Mussman & Shafter Inc
NATIONAL GYPSUM CO
Oregon Lumber Co
Pacific Veneer & Plywood Corp
Plaswood Corp
Protective Papers Inc
Rock Island Millwork Co
RODDIS PLYWOOD CORP
Simpson Luggage Co
U S GYPSUM CO
U S PLYWOOD CORP
WOODALL INDUSTRIES INC

► HARDBOARD, EMBOSSED

CELOTEX CORP
DANT & RUSSELL
MASONITE CORP

► HARDWARE, AWNING

Astrup Co
Awning Hardware Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
WARE CORP
Fanner Mfg Co
Goss (J C) Co
PITTSBURGH PLATE GLASS CO
Reading Hardware Corp
SARGENT & CO

► HARDWARE, AWNING WINDOW

CORBIN (P & F) DIV AMERICAN HARDWARE CORP
GATE CITY SASH & DOOR CO
Larson (Chas D) Co
LUDMAN CORP
Reading Hardware Corp
Slaymaker Lock Co
STERLING HARDWARE MFG CO
Super Vent Co
Whitney (Vincent) Co

► HARDWARE, BARN

ALLITH-POUTY INC
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
WARE CORP
FRANTZ MFG CO
HAGER (C) & SONS HINGE MFG CO
Hudson (H D) Mfg Co
Ideal Brass Works Inc
James Mfg Co
Lawrence Bros
Louden Machinery Co
McKinney Mfg Co
Myers (F E) & Brother Co
NATIONAL MFG CO
NIXALITE CO OF AMERICA
RICHARDS-WILCOX MFG CO
STANLEY WORKS
Starline Inc
WAGNER MFG CO

► HARDWARE, CABINET

Acorn Mfg Co
ADAMS-RITE MFG CO
Ajax Hardware Mfg Corp
American Brass Goods Co
AMERICAN CABINET HARDWARE CORP
Austin & Eddy Inc
Casement Hardware Co
Champion Hardware Co
Chicago Spring Hinge Co
Cipco Corp
Cleveland Lock Works
Clinton Lock Co
Consolidated Iron-Steel Mfg Co

CORBIN (P & F) DIV AMERICAN HARDWARE CORP

CURTIS COMPANIES INC
DEXTER LOCK CO
Engineered Products Co
Extension Drawer Support Co
Fiwale Equipment Mfg Co
FRANTZ MFG CO
Garden City Plating & Mfg Co
General Steel Warehouse Co Genesco Tool Div
Gits Molding Corp
Grand Rapids Hardware Co
GRANT PULLEY & HARDWARE CO
GREGG & SON
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Harris Inc
Harvard Lock Co
Heller (W C) & Co
Hollymade Hardware Mfg Co
Ideal Brass Works Inc
INDEPENDENT LOCK CO
Ives (H B) Co
Kees (F D) Mfg Co
Knappe & Vogt Mfg Co
KWIKSET SALES & SERVICE CO
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
MACKLANBURG-DUNCAN CO
McKinney Mfg Co
Modern Plastics Co
NATIONAL BRASS CO
National Hardware Co
NATIONAL LOCK CO
NATIONAL MFG CO
Noy Mfg Co
NORDAHL CO
Norwalk Lock Co Div Segal Lock & Hardware Co
Oley Products Inc
Parker (S) Hardware Mfg Co
Parlyn Lid
Peabody Co Inc
Penn Hardware Co
Petko Industries
Phoenix Lock Co
Reading Hardware Corp
Reese Padlock Co
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Selek (Walter E) & Co
Sharon Hardware Mfg Co
Shelby Spring Hinge Co
Slaymaker Lock Co
Soss Mfg Co
Standard Bronze Co
STANLEY WORKS
Star Metal Products Inc
STERLING HARDWARE MFG CO
Technical Glass Co Inc
Vimear Sales Co
Weber-Knapp Co
YALE & TOWNE MFG CO

► HARDWARE, CASEMENT WINDOW

American Brass Goods Co
AMERICAN CABINET HARDWARE CORP
Arrow Lock Corp
Bayley (William) Co
Casement Hardware Co
Champion Hardware Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Croft Steel Products Inc
CURTIS COMPANIES INC
FENESTRA BUILDING PRODUCTS
Fiwale Equipment Mfg Co
FRANTZ MFG CO
GETTY (H S) & CO INC
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Ideal Brass Works
INDEPENDENT LOCK CO
Ives (H B) Co
Kees (F D) Mfg Co
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
McKinney Mfg Co
NATIONAL BRASS CO
Peabody Co Inc
Penn Hardware Co
Phoenix Mfg Co Inc
Reading Hardware Corp
RICHARDS-WILCOX MFG CO
Rixson (Oscar C) Co
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Shelby Spring Hinge Co
Slaymaker Lock Co
STANLEY WORKS
STERLING HARDWARE MFG CO
Whitney (Vincent) Co
Wright Products Co
YALE & TOWNE MFG CO

► HARDWARE, CLOTHES CLOSET

Acme Metal Goods Mfg Co
Ajax Hardware Mfg Corp

Amerline Inc
Arrow Lock Corp
Aikinson Mfg Co
Autotype Co
Bommer Spring Hinge Co Inc
Champion Hardware Co
Chicago Curtain Stretcher Co
Clark (J B) Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Duncan Shaw Corp
Eroo Mfg Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
Fiwale Equipment Mfg Co
FRANTZ MFG CO
Garden City Plating & Mfg Co
GETTY (H S) & CO INC
GRANT PULLEY & HARDWARE CO
HAGER (C) & SONS HINGE MFG CO
Harloe Products Corp
Handy Things Mfg Co
Illinois Porcelain Enamel Co
Ives (H B) Co
Judd (H L) Co Inc
K D K Unset Forging Co
Ken-Bo-Bill Co
Knappe & Vogt Mfg Co
Kraus (Walter S) Co
Larson (Charles O) Co
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
Marrel Lock Mfg Co
McKinney Mfg Co
Modern Plastic Co
Moulton Ladder Mfg Co
NATIONAL MFG CO
NORDAHL CO
Parker (S) Hardware Mfg Corp
Peabody Co Inc
Penn Hardware Co
Reading Hardware Corp
Reese Padlock Co
Rop-Loc Products Co
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Shelby Spring Hinge Co
Skilman Hardware Co
Slaymaker Lock Co
Southern Galvanizing Co
Standard Bronze Co
STANLEY WORKS
Stevenson Mfg Co
Universal Steel Equipment Corp
Vimear Sales Co
WASHINGTON STEEL PRODUCTS INC
YALE & TOWNE MFG CO

► HARDWARE, DOOR

Ajax Hardware Mfg Corp
American Sliding Door Hardware Corp
Champion Hardware Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
WARE CORP
DEXTER LOCK CO
FRANTZ MFG CO
Ives (H B) Co
LOCKWOOD HARDWARE MFG CO
NATIONAL MFG CO
Penn Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Skilman Hardware Co
Weis (Henry) Mfg Co
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP

► HARDWARE, DOOR ACCESSORY

Acorn Mfg Co
ADAMS-RITE MFG CO
Ajax Hardware Mfg Corp
ALLITH-PROUTY INC
ALLMETAL WEATHERSTRIP CO
American Brass Goods Co
AMERICAN CABINET HARDWARE CORP
Arrow Lock Corp
Bridgeport Chain & Mfg Co
Busch (A G) Co Inc
Chamberlin Co of America
Champion Hardware Co
CHASE BRASS & COPPER CO
Chester (J) & Sons
Cipco Corp
Clinton Lock Co
Colonial Brass Co
Columbus Brass Mfg Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Dexter Inc
Dorbin Metal Strip Mfg Co
Engineered Products Co
Eroo Mfg Co
Fiske (J W) Iron Works
Fiwale Equipment Mfg Co
FRANTZ MFG CO
General Steel Warehouse Co Genesco Tool Div
Gits Molding Corp
Grand Rapids Wire Products Co
Grand Specialties Co
GRANT PULLEY & HARDWARE CO
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Harloe Products Corp
Harris Inc

Harvard Lock Co
Hollymade Hardware Mfg Co
Honeycutt Mfg Co
Ideal Brass Works
Ives (H B) Co
Kant Slam Door Check Co
Kees (F D) Mfg Co
Kentucky Metal Products Co
KWIKSET SALES & SERVICE CO
LABORATORY EQUIPMENT CORP
LOCKWOOD HARDWARE MFG CO
Loran Co Inc
MACKLANBURG-DUNCAN CO
Marjon Tool Corp
McKinney Mfg Co
MESKER (GEORGE L) STEEL CORP
Milwaukee Stamping Co
Modern Plastic Co
Moraroh Metal Weatherstrip Co
NATIONAL BRASS CO
National Guard Products
NATIONAL LOCK CO
NATIONAL MFG CO
Newell Mfg Co
Newman Brothers
Noy Mfg Co
Northern Industries Inc
Norton Door Closer Co
Norwalk Lock Co Div Segal Lock & Hardware Co
Pacific Plastic & Mfg Co
Parker (S) Hardware Mfg Co
Parlyn Lid
Peabody Co Inc
Penn Hardware Co
Petko Industries
Phoenix Mfg Co Inc
Phoenix Hardware Mfg Co
PITTSBURGH PLATE GLASS CO
Reading Hardware Corp
Reese Padlock Co
RICHARDS-WILCOX MFG CO
Rittenhouse Mfg Co
Robbins Mfg Co
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
SCHLAGE LOCK CO
Segal Lock & Hardware Co Inc
Sentry Stop-A-Draft Co
Sharon Hardware Mfg Co
Shelby Metal Products Co
Shelby Spring Hinge Co
SKILMAN HARDWARE MFG CO
Slaymaker Lock Co
Smith (F P) Wire & Iron Works
Soss Mfg Co
Southern Wire & Iron Works
Spanners (A J) Co
Standard Bronze Co
Standard Mirror Co
STANLEY WORKS
Starline Inc
STERLING HARDWARE MFG CO
Sultan Bros
Superior Accessory Co
Superior Plastics Div Commonwealth Plastics Inc
Technical Glass Co
Thermal Co
Trego Industries
Turner Brass Works
WAGNER MFG CO
WASHINGTON STEEL PRODUCTS INC
Waterloo Sales Co
Wellman Products Co
Westwood Mfg Co
Woodmark Industries Inc
YALE & TOWNE MFG CO

► HARDWARE, DRAWER, KNOBS & PULLS

ADAMS-RITE MFG CO
Ajax Hardware Mfg Corp
AMERICAN CABINET HARDWARE CORP
Arrow Lock Corp
BENDIX MFG CO
Champion Hardware Co
Chesler (J) & Sons Inc
Chicago Wood Plastic Products Co
City Plating & Mfg Co
Cooke (R F) Mfg Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Dexter Machine Works
DEXTER LOCK CO
Engineered Products Co
Eroo Mfg Co
Fiwale Equipment Mfg Co
FRANTZ MFG CO
General Steel Warehouse Co Genesco Tool Div
GRANT PULLEY & HARDWARE CO
HAGER (C) & SONS HINGE MFG CO
Harloe Products Corp
Hollymade Hardware Mfg Co
Ives (H B) Co
Knappe & Vogt Mfg Co
KWIKSET SALES & SERVICE CO
LOCKWOOD HARDWARE MFG CO
Melmond Mfg Co
McKinney Mfg Co
Modern Plastics Co
NATIONAL BRASS CO
National Hardware Co
NATIONAL LOCK CO
NATIONAL MFG CO
Norwalk Lock Co Div Segal Lock & Hardware Co
Pacific Plastic & Mfg Co
Parker (S) Hardware Mfg Corp
Peabody Co Inc
Penn Hardware Co
Petko Industries

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Reading Hardware Corp
Republic Hardware & Distributing Corp
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
SCHLAGE LOCK CO
Segal Lock & Hardware Co Inc
Soack (Walter E) & Co
Skillman Hardware Co
Slaymaker Lock Co
Standard Bronze Co
STANLEY WORKS
Stiles (H A) Co
Superior Plastic Div Commonwealth Plastics Inc
Technical Glass Co Inc
Turner Brass Works
U S Glass Co
Westwood Mfg Co
YALE & TOWNE MFG CO

▶ HARDWARE, GARAGE DOOR

ALLITH-PROUTY INC
BARBER-COLMAN CO
CALDER MFG CO
Champion Hardware Co
COLORADO FUEL & IRON CORP WICKWIRE SPENCER STEEL DIV
Commander Door Inc
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
CRANE (H W) CO
CRAWFORD DOOR CO
Fisale Equipment Mfg Co
FRANTZ MFG CO
General Steel Warehouse Co Inc Genesco Tool Div
Grand Specialties Co
HAGER (C) & SONS HINGE MFG CO
Lambson & Sessions Co
Larson (Chas O) Co
Lawrence Brothers
Louden Machinery Co
McKinney Mfg Co
NATIONAL MFG CO
OVERHEAD DOOR CORP
Parker (S) Hardware Mfg Corp
Penn Hardware Co
Phenix Mfg Co
RICHARDS-WILCOX MFG CO
St Louis Screw & Bolt Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Sharon Hardware Mfg Co
Shelby Spring Hinge Co
Slaymaker Lock Co
STANLEY WORKS GARAGE HARDWARE DEPT
Starline Inc
Sterling Bolt Co
STERLING HARDWARE MFG CO
Stronghold Screw Products Inc
Tasart Co Ltd
WAGNER MFG CO
Western Products Inc

▶ HARDWARE, GARAGE, FOLDING DOOR

Boseh (A G) & Co Inc
Clinton Lock Co
COLORADO FUEL & IRON CORP WICKWIRE SPENCER STEEL DIV
Eastern Malleable Iron Co Eberhard Mfg Co Div
FRANTZ MFG CO
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
LOCKWOOD HARDWARE MFG CO
NATIONAL MFG CO
Noy Mfg Co
Peabody Co Inc
Sharon Hardware Mfg Co

▶ HARDWARE, GARAGE, UPWARD-ACTING

ALLITH-PROUTY INC
Arrowsmith Tool & Die Co
BARBER-COLMAN CO
Bettor Bolt Door Co
CALDER MFG CO
Clay Equipment Corp
COLORADO FUEL & IRON CORP WICKWIRE SPENCER STEEL DIV
CURTIS COMPANIES INC
Fisale Equipment Mfg Co
FRANTZ MFG CO
HAGER (C) & SONS HINGE MFG CO
Helmus Mfg Co
LOCKWOOD HARDWARE MFG CO
Louden Machinery Co
NATIONAL MFG CO
OVERHEAD DOOR CORP
Phenix Mfg Co
RICHARDS-WILCOX MFG CO
Standard Bronze Co
STANLEY WORKS
Starline Inc
Tasart Co Ltd
Vimear Sales Co
WAGNER MFG CO
WEL-BILT PRODUCTS CO

▶ HARDWARE, LADDER

Max Building Bracket Co
ALLITH-PROUTY INC
Baltesek (W W) Co

Caster Mold & Machine Co
Daymont Ladder Co
Haidt Mfg Co
Larson Ladder Co
Michigan Ladder Co
Newark Ladder & Bracket Co
Rich Ladder & Mfg Co
STANLEY WORKS

▶ HARDWARE, SCREEN & STORM SASH

Acorn Mfg Co
Air-Tite Window Stg Co
Ajax Hardware Mfg Corp
Alden Mfg Co
AMERICAN CABINET HARDWARE CORP
Barber Mfg Co Inc
Busch (A D) & Co Inc
Casement Hardware Co
CECO STEEL PRODUCTS CORP
Champion Hardware Co
Chicago Spring Hinge Co
Clinton Lock Co
Consolidated Iron-Steel Mfg Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
CURTIS COMPANIES INC
Dennis W J & Co
Engineered Products Co
FRANTZ MFG CO
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Handy Things Mfg Co
Ideal Brass Works
Kant-Slam Door Check Co
Kees (F D) Mfg Co
Kneape & Vogt Mfg Co
KWIKSET SALES & SERVICE CO
Larson (Charles O) Co
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
Louden Machinery Co
Ludwig Mfg Co Inc
WACKLANBURG-DUNCAN CO
McKinney Mfg Co
NATIONAL BRASS CO
NATIONAL LOCK CO
NATIONAL MFG CO
Norton Door Closer Co
Norwalk Lock Co Div Segal Lock & Hardware Co
Olney Products Inc
Parker (S) Hardware Mfg Corp
Penn Hardware Co
Petko Industries
PHENIX MFG CO INC
REYNOLDS METALS CO BUILDING PRODUCTS DIV
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
Saf-N-Eze Home Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
Sharon Hardware Mfg Co
Shelby Spring Hinge Co
Slaymaker Lock Co
STANLEY WORKS
STERLING HARDWARE MFG CO
Technical Glass Co Inc
WAGNER MFG CO
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP
Wright Products Inc
YALE & TOWNE MFG CO

▶ HARDWARE, SLIDING DOORS

ACME APPLIANCE MFG CO
Accurate Metal Weather Strip Co Inc
ADAMS-RITE MFG CO
AIR CONTROL PRODUCTS INC
ALLITH-PROUTY INC
American Sliding Door Hardware Corp
Clay Equipment Corp
Clinton Lock Co
COBURN TROLLEY TRACK PRODS WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
CURTIS COMPANIES INC
Fletcher Plate
FRANTZ MFG CO
Garden City Plating & Mfg Co
Garlick & Custer Inc
GRANT PULLEY & HARDWARE CO
HAGER (C) & SONS HINGE MFG CO
James Mfg Co
KENNRATRACK CORP
Kneape & Vogt Mfg Co
Lambton Mfg Co Inc
LOCKWOOD HARDWARE MFG CO
Long (Ralph E) Co
Louden Machinery Co
WACKLANBURG-DUNCAN CO
McKinney Mfg Co
METAL PRODUCTS CORP
New Wood Products Inc
NATIONAL LOCK CO
NATIONAL MFG CO
Noy Mfg Co
NORDAHL CO
Nu-Way Builders Corp
Olney Products Inc
Olson Mfg Co
Parker (S) Hardware Mfg Corp

Peabody Co Inc
Penn Hardware Co
Reading Hardware Corp
RICHARDS-WILCOX MFG CO
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Sharon Hardware Mfg Co
STANLEY WORKS
Starline Inc
U S Sliding Door Corp
Vimear Sales Co
WAGNER MFG CO
WASHINGTON STEEL PRODUCTS INC
WEL-BILT PRODUCTS CO
Western Products Inc
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP

▶ HARDWARE, VENETIAN BLIND

Read Chain Mfg Co
Bills Venetian Blind Co
Carp, McFall Co
Fireale Equipment Mfg Co
Guarantee Specialty Mfg Co
HUNTER DOUGLAS MFG CORP
Lorenson Hardware Mfg Corp
REYNOLDS METALS CO BUILDING PRODUCTS DIV

▶ HARDWARE, WINDOW

Acorn Mfg Co
ADAMS RITE MFG CO
Ajax Hardware Mfg Corp
American Brass Goods Co
AMERICAN CABINET HARDWARE CORP
A B B Window Sales Co
Arrow Lock Corp
Austral Sales Corp
Casement Hardware Co
Champion Hardware Co
Clay Corp
Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Dennis W J & Co
Detroit Hardware Mfg Co
DEXTER LOCK CO
Ereo Mfg Co
FENESTRA BUILDING PRODUCTS
Fisale Equipment Mfg Co
FRANTZ MFG CO
GATE CITY SASH & DOOR CO
GETTY (H S) & CO INC
GRANT PULLEY & HARDWARE CO
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Harvard Lock Co
Ideal Brass Works
INDEPENDENT LOCK CO
Ives (H B) Co
Kneape & Vogt Mfg Co
KWIKSET SALES & SERVICE CO
Larson (Charles O) Co
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
WACKLANBURG-DUNCAN CO
McKinney Mfg Co
NATIONAL BRASS CO
NATIONAL LOCK CO
NATIONAL MFG CO
Norwalk Lock Co Div Segal Lock & Hardware Co
Parker (S) Hardware Mfg Corp
Parson Ltd
Peabody Co Inc
Penn Hardware Co
Petko Industries
Phenix Mfg Co Inc
Reading Hardware Corp
Reese Padlock Co
RICHARDS-WILCOX MFG CO
Rockford Brass Works
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Sharon Hardware Mfg Co
Shelby Metal Products Co
Skillman Hardware Co
Slaymaker Lock Co
STANLEY WORKS
Steel Window Products Co
Sterling-Freeland Industries Inc
STERLING HARDWARE MFG CO
Sun Metal Products Co
Vimear Sales Co
Whitney (Vincent) Co
YALE & TOWNE MFG CO

▶ HASPS, HINGE

ALLITH-PROUTY INC
American Hinge Co
Champion Hardware Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
Fiwale Equipment Mfg Co
FRANTZ MFG CO
General Steel Warehouse Co Genesco Tool Div
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Master Lock Co
McKinney Mfg Co

NATIONAL BRASS CO
NATIONAL LOCK CO
NATIONAL MFG CO
Parler (S) Hardware Mfg Co
RICHARDS-WILCOX MFG CO
Safe Padlock & Hardware Co
Slaymaker Lock Co
STANLEY WORKS
WAGNER MFG CO

▶ HATCHETS

Bridgeport Hardware Mfg Corp
Collins Company
Estwing Mfg Co
Goldblatt Tool Co
Markwell Mfg Co Inc
Peck Stow & Wilcox Co
Plumb (Fayette R) Inc
STANLEY TOOLS DIV STANLEY WORKS
True Temper Corp
Vaughan & Bushnell Mfg Co

▶ HEADS, DADO

American Saw Mill Machinery Co
Atkins (E C) Div Borg Warner Corp
Consolidated Machinery & Supply Co
Diston (Henry) & Sons Inc
Master Woodworker Mfg Co
O'Brien-Bishop Co
ROCKWELL MFG CO
Toolkraft Corp
Western Saw Works

▶ HEARTH, CANTILEVER

Dunley Brothers

▶ HEATERS, BATHROOM

Adam (Frank) Electric Co
Day & Night Mfg Div Affiliated Gas Equipment Inc
ELECTROMODE CORP
EMERSON ELECTRIC MFG CO
Galbraith (C C) & Sons
LA SALLE PRODUCTS INC
MARKEL ELECTRIC PRODUCTS INC
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
Ohio Store Co
Peerless Mfg Co
SHEPLER MFG CO
Thermador Electrical Mfg Co
WESTINGHOUSE ELECTRIC CORP

▶ HEATERS, COAL

Athens Stove Works
AMERICAN RADIATOR & STANDARD SANITARY CORP
Anchor Div Stratton & Terstege Co Inc
Dunley Brothers
Excelsior Stove & Mfg Co
Gray & Dolley Co
Hart Mfg Co
International Heater Co
King Stove & Range Co
Kraus (Walter S) Co
Locke Stove Co
Malleable Iron Range Co
NORGE HEAT DIV BORG-WARNER CORP
Red Jacket Coal Sales Co
Washington Stove Works

▶ HEATERS, CONCRETE

Acroll Products Co Inc
American Steel Works
Hatek Mfg Co
Unique Mfg Co Inc

▶ HEATERS, CONTRACTORS, PORTABLE

FAGEOL HEAT MACHINE CO
WESTERN METAL SPECIALTY CO

▶ HEATERS, ELECTRIC

Adam (Frank) Electric Co
Armstrong Products Corp
Coburn Mfg Co
Collinet Equipment Co Inc
Eagle Electric Mfg Co Inc
ELECTROMODE CORP
Excelsior Stove & Mfg Co
HU TONE INC
Pinesco
Wayne Home Equipment Co

▶ HEATERS, GAS

American Gas Machine Co
AMERICAN RADIATOR & STANDARD SANITARY CORP
Armstrong Products Corp
BRYANT HEATER DIV AFFILIATED GAS EQUIPMENT INC
COLEMAN CO INC
Combustion Engineering Superheater Inc
Cresaire Heater Corp
Duo-Therm Div Motor Wheel Corp
EMPIRE STOVE CO
Excelsior Stove & Mfg Co
Folsom Co Clark Products Div
Gray & Dudley Co
Harrison Steel Cabinet Co
HERMAN NELSON
Inland Steel Container Co
King Stove & Range Co
Locke Stove Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

NORGE HEAT DIV BORG-WARNER CORP
OHIO FOUNDRY & MFG CO
 Portable Heater Co
 Quaker Mfg Co
REZTOR MFG CO
 Royal Heaters Inc
 Rund Mfg Co
SHEPLER MFG CO
 Surface Combustion Corp
 Trane Co
 Tri-Therm Heater Co
 Wayne Home Equipment Co
 Zink (John) Co

▶ HEATERS, OIL

Aeroll Products Co Inc
 American Gas Machine Co
COLEMAN COMPANY
 Dravo Corp
 Estate Stove Co Div Noma Electric Co
 Excelsior Stove & Mfg Co
 Florence Stove Co
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
 Gray & Dudley Co
 International Heater Co
 Kresky Mfg Co
 Kresno-Stamm Mfg Corp
 Lindemann (A J) & Hoverson Co
 Little (H C) Burner Co
 Locke Stove Co
 Lonergan Mfg Co
 Macleod Company
 Malleable Iron Range Co
 National Airroll Burner Co
NORGE HEAT DIV BORG-WARNER CORP
 Northwest Metal Products Inc
 Perfection Stove Co
 Prentiss Washers Products Co
 Quaker Mfg Co
 Silent Sioux Oil Burner Corp
 U S Machine Corp
 Washington Stove Works
 Wayne Home Equipment Co
YORK-SHIPLEY INC

**▶ HEATERS, PORTABLE,
 ELECTRIC**

Appliance Mfg Co
 Birtman Electric Co
 Conoco Engineering Works Div Conkey (H D)
 Co
 Continental Radiant Glass Heating Corp
 Dayton Electric Mfg Co
 Dry Climate Lamp Cord
 Econmaster Products Co Inc
ELECTROMODE CORP
EMERSON ELECTRIC MFG CO
 Galbraith (C C) & Sons
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
 Gilbert (A C) Co
 G-M Laboratories Inc
HERMAN NELSON
 Imperial Motor Corp
 Instrite Mfg Co
 Knapp-Monarch Co
 Landers Fray & Clark
LA SALLE PRODUCTS INC
 Lawson Mfg Co
MARKEL ELECTRIC PRODUCTS INC
 Metal Products Mfg Co
 National Die Casting Co
 National Ideal Co
 Noblitt Sparks Industries Inc
 Noma Electric Co
 Radiant Heater Corp
 Rubentor Electric Co Inc
SHEPLER MFG CO
 Spartan Electric
 Super Electric Products Corp
 Swartzbaugh Mfg Co
 Tennessee Valley Associated Markets
 Tepfer Appliance Co Inc
 Tesco Inc
 Thermador Electric Mfg Co
 Wells Lamp Corp
WESTINGHOUSE ELECTRIC CO
 Wittie Mfg & Sales Co

▶ HEATERS, ROOM

Adam (Frank) Electric Co
 Armstrong Products Corp
**BRYANT HEATER DIV AFFILIATED GAS
 EQUIPMENT INC**
 Caloric Stove Corp
CHATTANOOGA IMPLEMENT & MFG CO
 Cole Hot Bl-Str Mfg Co
COLEMAN CO INC
 David Maschke Tool Corp
 Duo-Therm Div Motor Wheel Corp
ELECTROMODE CORP
 Evans Products Co
 Excelsior Stove & Mfg Co
 Florence Stove Co
 Galbraith (C C) & Son
 Homer Furnace & Foundry Corp
 Kalamazoo Stove & Furnace Co
 Kison Heat Inc
 Kresky Mfg Co
LA SALLE PRODUCTS INC
 Little (H C) Burner Co Inc
 Locke Stove Co
MARKEL ELECTRIC PRODUCTS INC
 National Enameline & Stamping Co
 National Radiator Co
 Nesco
OHIO FOUNDRY & MFG CO
 Payne Furnace Co
 Peerless Mfg Corp
 Perfection Stove Co
 Prentiss Washers Products Co

Quaker Mfg Co
 Queen Stove Works
REZTOR MFG CO
SHEPLER MFG CO
 Silent-Glow Oil Burner Corp
 U S Machine Corp
 Viking Mfg Corp
WESTINGHOUSE ELECTRIC CORP

▶ HEATERS, TANKLESS WATER

BELL & GOSSETT CO
 General Fittings Co
 Midget Heater & Specialty Co
 Red Spot Electric Co
 Taco Heaters Inc
THRUSS (H A) CO
 Triplex Heating Specialties Co

▶ HEATERS, UNIT

American Gas Machine Co
 Automatic Gas Equipment Co
 Broad Mfg Co Inc
CARRIER CORP
 Day & Night Mfg Div Affiliated Gas Equipment
 Inc
ELECTROMODE CORP
 Harzell Propeller Fan Co Div Castle Hills
 Corp
HERMAN NELSON
 Kresky Mfg Co
 Little (H C) Burner Co
MOODINE MFG CO
MUELLER (L J) FURNACE CO
NORMAN PRODUCTS CO
 Peerless Mfg Co
 Surface Combustion Corp
 Temco Inc
 Trane Company
 Utility Appliance Corp
 Wesix Electric Heater Co
YOUNG RADIATOR CO

▶ HEATERS, WALL

Adam (Frank) Electric Co
 Adams Brothers Mfg Co
COLEMAN CO INC
 Cornaire Heater Corp
ELECTROMODE CORP
 Galbraith (C C) & Son
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
 Holly Mfg Co
 Kresky Mfg Co Inc
 Landers Fray & Clark
LA SALLE PRODUCTS INC
MARKEL ELECTRIC PRODUCTS INC
**MIAMI CABINET DIV CAREY (PHILIP)
 MFG CO**
OHIO FOUNDRY & MFG CO
 Ohio Stove Co
 Peerless Mfg Corp
SHEPLER MFG CO
 Thermador Electrical Mfg Co
 Titan Mfg Co
 Wesix Electric Heater Co
WESTINGHOUSE ELECTRIC CORP

▶ HEATERS, WATER

AIRTEMP DIV CHRYSLER CORP
ALDRICH CO DIV BREEZE CORP INC
 American Gas Machine Co
**AMERICAN RADIATOR & STANDARD SANI-
 TARY CORP**
 American & Southern Corp
 Automatic Electric Co Inc
 Bard Mfg Co
BELL & GOSSETT CO
**BRYANT HEATER DIV AFFILIATED GAS
 EQUIPMENT INC**
 Clayton & Lambeth Mfg Co
 Cleveland Heater Co
 Cleveland Steel Products Co Toridheet Div
COLEMAN COMPANY
 Colloid Equipment Co Inc
 Combustion Engineering-Superheater Inc
 Conoco Engineering Works Div Conkey (H D)
 Co
CRANE COMPANY
 Crane Electric Industries
CROSLLEY DIV AVCO MFG CORP
 Day & Night Mfg Div Affiliated Gas Equip-
 ment Inc
**DELCO APPLIANCE DIV GENERAL MOTORS
 CORP**
 Dowagiac Steel Furnace Co
 Duo-Therm Div Motor Wheel Corp
ELTARY CORP
 Evans Products Co
 Excelsior Stove & Mfg Co
 Fairbanks Morse & Co
 Florence Stove Co
 Foster Mfg Co
 Frigidaire Div General Motors Corp
**GENERAL ELECTRIC CO HOME BUREAU &
 CONTRACT SALES DEPT**
 General Implement Corp
 General Water Heater Corp
 Gillen (J L) Co
 Hedges (M M) Co
HOTPOINT INC
 Hotstream Heater Co
 Hynes & Cox Electric Co
 International Heater Co
JOHNSON (S T) CO
KELVINATOR DIV HASH-KELVINATOR CO
 Kewanee Boiler Corp

King Stove & Range Co
KOVEN (L O) & BROTHER INC
 Kresky Mfg Co
 Kresno Stamm Mfg Corp
 Landers Fray & Clark
 Lawson Mfg Co
 Leeson Steel Products Inc
 Lindemann (A J) & Hoverson Co
 Little (H C) Burner Co
 McGraw Electric Co
NORGE HEAT DIV BORG-WARNER CORP
 Oilux Company
 Penberthy Injector Co
 Perfection Stove Co
 Petroleum Heat & Power Co
 Philco Corporation
 Pioneer Water Heater Corp
 Pittsburgh Water Heater Co
 Quaker Mfg Co
 Ray Oil Burner Co
 Republic Heater Corp
RHEEM MFG CO
 Rund Mfg Co
 Sav-U-Time Devices Inc
 Seeco Corporation
SERVEL INC
 Smith (A D) Corp
 Standard Gas Equipment Corp
 Swartzbaugh Mfg Co
 Taco Heaters Inc
 Thermador Electrical Mfg Co
**TIMKEN SILENT AUTOMATIC DIV TIM-
 KEN DETROIT AXLE CO**
 Tri-Therm Heater Co
 Vestal Stove Co
 Viking Mfg Corp
 Waldorf Heater Co
 Wayne Home Equipment Co
WESIX ELECTRIC HEATER CO
WESTINGHOUSE ELECTRIC CORP
 White Products Corp
 Whitehead (Jud) Heater Co
 Williams Oil-O-Matic Div Eureka-Williams Co

▶ HEATING CONTROLS

BARBER-COLMAN CO
BELL & GOSSETT CO
 Caloric Stove Corp
 Conco Engineering Works
 Cook Electric Co
CRANE CO
**DELCO APPLIANCE DIV GENERAL MOTORS
 CORP**
 Detroit Controls Co
 General Controls Co
GENERAL ELECTRIC APPARATUS DEPT
 Lone Star Stove Co
NERCOLD CORP
**MINNEAPOLIS-HONEYWELL REGULATOR
 CO**
 Perflex Corp
 Perfect Regulator Co
 Robertshaw-Fulton Controls Co Robertshaw
 Thermostat Div
 Sanabek Mfg Co
 Samsel Time Control Inc
 Sarcotherm Controls Inc
 Spencer Thermostat Div Metals & Controls
 Corp
 Taco Heaters Inc
 Taylor Instrument Companies
 Tri-Therm Products Co
 Webster (Warren) & Co
 White Rodgers Electric Co
 Young Regulator Co

**▶ HEATING SYSTEMS BASE-
 BOARD**

**AMERICAN RADIATOR & STANDARD SANI-
 TARY CORP**
BURNHAM CORP
CRANE CO
FEDDERS QUIGAN CORP
 General Automatic Products Corp
 Gerwin Industries
 Nesbitt (John J) Inc
 Radiant-Ray Radiator Inc
 Ulix Radiator Corp
VULCAN RADIATOR CO
 Webster (Warren) & Co

**▶ HEATING SYSTEMS, HOT
 WATER OR STEAM**

AIRTEMP DIV CHRYSLER CORP
ALDRICH CO
**AMERICAN RADIATOR & STANDARD SANI-
 TARY CORP**
BELL & GOSSETT CO
 Brower Mfg Co
 Brownell Co
**BRYANT HEATER DIV AFFILIATED GAS
 EQUIPMENT INC**
BURNHAM CORP BOILER DIV
 Century Engineering Corp
 Cleveland Steel Products Co
CRANE COMPANY
**DELCO APPLIANCE DIV GENERAL MOTORS
 CORP**
 Fairbanks Morse & Co
FEDDERS QUIGAN CORP
 Fitzgibbons Boiler Co
 General Automatic Products Corp
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
 General Fittings Co
 Gilbert & Barker Mfg Co

Hedges-Walsh-Weldner Div Combustion En-
 gineering Superheater Inc
 Hell Company
 Hotstream Heater Co
 Institute of Boiler & Radiator Mfrs
 International Heater Co
JOHNSON (S T) CO
 Kewanee Boiler & Mfg Co
KOWLER CO
 Kresno Stamm Mfg Corp
 Little (H C) Burner Co
 Lookout Boiler & Mfg Co
LYCOMING-SPENCER DIV AVCO MFG CORP
 MacFord Corp
MUELLER (L J) FURNACE CO
 Munroe (R) & Sons Mfg Corp
 Murray (D J) Mfg Co
 National Radiator Co
NORGE HEAT DIV BORG-WARNER CORP
 Oilux Co
 Penn Boiler & Burner Mfg Corp
 Persiro Mfg Corp
RICHMOND RADIATOR CO
ROBERTS-GORDON APPLIANCE CORP
 Seattle Boiler Works
 Surface Combustion Corp
 Taco Heaters Inc
THRUSS (H A) CO
**TIMKEN SILENT AUTOMATIC DIV TIM-
 KEN DETROIT AXLE CO**
 Trane Company
 Triplex Heating Specialties Co
 U S Radiator Corp
 Ulix Radiator Corp
WATERFILM BOILERS INC
 Wayne Home Equipment Co
 Webster (Warren) & Co
 Will-Burt Co
 Williams Oil-O-Matic Div Eureka-Williams
 Co
YORK-SHIPLEY INC

**▶ HEATING SYSTEMS, RADI-
 ANT**

BELL & GOSSETT CO
**BRYANT HEATER DIV AFFILIATED GAS
 EQUIPMENT INC**
BUNDUY TUBING CO
 Cannelton Sewer Pipe Co
CHASE BRASS & COPPER CO
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
 Mueller Brass Co
 Revere Copper & Brass Co
 Rochester Products Div G M
 Surface Combustion Corp
 Taco Heaters Inc
THRUSS (H A) & CO
 Ulix Radiator Corp

**▶ HEATING SYSTEMS, RADI-
 ANT PANELS**

Continental Radiant Glass Heating Corp
 Electricalgas Corp
 Homes Inc Ceil Heat Div
 Surface Combustion Corp
 Radiant Baseboard Panels Inc
 U S Rubber Co

**▶ HEATING SYSTEMS, WARM
 AIR**

AIRTEMP DIV CHRYSLER CORP
 American Gas Machine Co
**AMERICAN RADIATOR & STANDARD SANI-
 TARY CORP**
 Anchor Div Stratton & Terstegge Co Inc
 Armstrong Furnace Co
**BRYANT HEATER DIV AFFILIATED GAS
 EQUIPMENT INC**
CARRIER CORP
 Chicago Iron Draft Furnace Co
COLEMAN CO INC
 Conoco Engineering Works Div Conkey (H D)
 Co
 Cornaire Heater Corp
CRANE COMPANY
 Detroit-Michigan Stove Co
 Duo-Therm Div Motor Wheel Corp
 Estate Stove Co Div Noma Electric Co
 Evans Products Co
 Excelsior Stove & Mfg Co
 Fairbanks Morse & Co
FEDDERS QUIGAN CORP
 Fluid Heat Div Anchor Post Products Inc
 Fox Furnace Co
 General Automatic Products Corp
**GENERAL ELECTRIC CO AIR CONDITION-
 ING DEPT**
GETTY (H S) & CO
 Gilbert & Barker Mfg Co
 Henry Furnace Co
 Hoffman Specialty Co
 Holland Furnace Co
 Holly Mfg Co
 International Heater Co
 Iron Fireman Mfg Co
 Jackson & Church Co
KAUSTINE CO INC
 Kresky Mfg Co Inc
 Kresno Stamm Mfg Corp
 Lennox Furnace Co
 Little (H C) Burner Co
 Locke Stove Co
MAJESTIC CO
MORRISON STEEL PRODUCTS INC
MUELLER (L J) FURNACE CO
 Murray (D J) Mfg Co
 National Warm Air Heating & Air Condition-
 ing Association
NORGE HEAT DIV BORG-WARNER CORP
NORMAN PRODUCTS CO
 Northwest Metal Products Inc

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Oakland Foundry Co
Payne Furnace & Supply Co
Penn Boiler & Burner Mfg Co
Perfection Stove Co
Perriso Mfg Corp
Quiet Automatic Burner Corp
REZOR MFG CO
RICHMOND RADIATOR CO
Silent Stove Oil Burner Corp
Surface Combustion Corp
Viking Mfg Corp
Wayne Home Equipment Co
Wheeling Furnace Corp
Will-Burt Co
Williams Oil-O-Matic Div Eureka-Williams Corp
WILLIAMSON HEATER CO
YORK-SHIPLEY INC

▶ HINGES, BALL BEARING

ALLITH-PROUTY INC
CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP
Fiwale Equipment Mfg Co
HAGER (C) & SONS HINGE MFG CO
LOCKWOOD HARDWARE MFG CO
McKinney Mfg Co
RICHARDS-WILCOX MFG CO
Rixson (Heard C) Co
STANLEY WORKS

▶ HINGES, BUTT

Acorn Mfg Co
Ajax Hardware Mfg Corp
AMERICAN CABINET HARDWARE CORP
Champion Hardware Co
Clintco Lock Co
Consolidated Iron Steel Mfg Co
**CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP**
Earle Hardware Mfg Co
Fiwale Equipment Mfg Co
FRANTZ MFG CO
Garden City Plating & Mfg Co
Genesco Tool Div General Steel Warehouse Co
GETTY (H S) & CO INC
Grand Specialties Co
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Hollymade Hardware Mfg Co
Ideal Brass Works
KWIKSET SALES & SERVICE CO
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
McKinney Mfg Co
NATIONAL LOCK CO
Norwalk Lock Co Div Segal Lock & Hardware Co
Pacific Brass & Hardware Mfg Co
Parker (S) Hardware Mfg Co
Penn Hardware Co
Petko Industries
RICHARDS-WILCOX MFG CO
**RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP**
Safe Padlocks & Hardware Co
**SAGER-BARROWS DIV YALE & TOWNE
MFG CO**
SARGENT & CO
Sharon Hardware Mfg Co
Skillman Hardware Mfg Co
Slaymaker Lock Co
STANLEY WORKS
WAGNER MFG CO

▶ HINGES, CONTINUOUS

HAGER (C) & SONS HINGE MFG CO
Knappe & Vogt Mfg Co
NATIONAL LOCK CO
STANLEY WORKS

▶ HINGES, FLOOR

Bommer Spring Hinge Co
Chicago Spring Hinge Co
Clintco Lock Co
FRANTZ MFG CO
HAGER (C) & SONS HINGE MFG CO
NATIONAL MFG CO
PITTSBURGH PLATE GLASS CO
Shelby Spring Hinge Co
STANLEY WORKS

▶ HINGES, GATE

Acorn Mfg Co
Chicago Spring Hinge Co
**CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP**
**CYCLONE FENCE DIV AMERICAN STEEL
& WIRE CO**
FRANTZ MFG CO
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Ideal Brass Works Inc
KEYSTONE STEEL & WIRE CO
Lawrence Brothers
McKinney Mfg Co
Milwaukee Stamping Co
NATIONAL MFG CO
Penn Hardware Co
**RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP**
Standard Bronze Co
STANLEY WORKS
WAGNER MFG CO

▶ HINGES, INVISIBLE

AMERICAN CABINET HARDWARE CORP
NATIONAL LOCK CO
Parker (S) Hardware Mfg Co
RICHARDS-WILCOX MFG CO
Saw Mfg Co
STANLEY WORKS

▶ HINGES, SPRING, DOOR

AMERICAN CABINET HARDWARE CORP
Bommer Spring Hinge Co
Chicago Spring Hinge Co
Cleveland Lock Works
**CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP**
Fiwale Equipment Mfg Co
FRANTZ MFG CO
Genesco Tool Div General Steel Warehouse Co
Inc
HAGER (C) & SONS HINGE MFG CO
Harris Inc
Lawrence Brothers
Milwaukee Stamping Co
NATIONAL MFG CO
**RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP**
Sharon Hardware Mfg Co
Shelby Spring Hinge Co
STANLEY WORKS

▶ HINGES, STRAP

Acorn Mfg Co
Brainerd Mfg Co
Champion Hardware Co
Cleveland Lock Works
**CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP**
Erco Mfg Co
Fiwale Equipment Mfg Co
FRANTZ MFG CO
Genesco Tool Div General Steel Warehouse Co
Griffin Mfg Co
HAGER (C) & SONS HINGE MFG CO
Johnson Industries Inc
Knappe & Vogt Mfg Co
McKinney Mfg Co
NATIONAL BRASS CO
NATIONAL LOCK CO
NATIONAL MFG CO
Parker (S) Hardware Mfg Corp
Peters (James) & Son
Reflecto Letters
RICHARDS-WILCOX MFG CO
Sharon Hardware Co
Slaymaker Lock Co
Standard Bronze Co
STANLEY WORKS
WAGNER MFG CO

▶ HINGES, CHAIN

American Chain Div of American Chain &
Cable Co
Chisholm Moore Hoist Corp Div Columbus-Me-
Kinnon Chain Corp
Cleveland Tramrail Div Cleveland Crane &
Engineering Co
Coffing Hoist Co
Ford Chain Block Div American Chain &
Cable Co Inc
Moore Dry Kiln Co
Nordberg Mfg Co
Reading Chain & Block Corp
Western Foundry Co
Wright Hoist Div American Chain & Cable
Co Inc
YALE & TOWNE MFG CO

▶ HINGES, ELECTRIC

King Mfg Co

▶ HINGES, MECHANICAL POWERED

ALLIS CHALMERS MFG CO
American Engineering Co
American Hoist & Derrick Co
Bridgport Chain & Mfg Co
C H & E Mfg Co
Chisholm-Moore Hoist Corp Div Columbus-Me-
Kinnon Chain Corp
Cleveland Tramrail Div Cleveland Crane &
Engineering Co
Clyde Iron Works Inc
Coffing Hoist Co
CONSTRUCTION MACHINERY SALES CO
Detroit Hoist & Machine Co
Electro Lift Inc
Essick Mfg Co
Fairbanks Morse & Co
Gifford-Wood Co
HARMISCHFEGGER CORPORATION
Hyder Company
JAEGER MACHINE CO
King Mfg Co
Lewis-Shepard Products Inc
Lisbon Hoist & Crane Co
Louden Machinery Co
Master Electric Co
National Screw & Mfg Co
Novo Engine Co
Reading Chain & Block Corp
Robbins & Myers Inc
Shaw Box Crane & Hoist Div Manning Max-
well & Moore Inc
Shepard Niles Crane & Hoist Corp
Silent Hoist & Crane Co
Smith's Hoist & Manufacturing Co
Starline Inc
Stimmel Winch Co
Vulcan Iron Works Co
Washington Iron Works
Whiting Corp
Wright Hoist Div American Chain & Cable Co
Inc
YALE & TOWNE MFG CO

▶ HOISTS, PORTABLE

CLIPPER MFG CO
CONSTRUCTION MACHINERY SALES CO
King Mfg Co

▶ HOISTS, SKIP

ALLIS-CHALMERS MFG CO
American Hoist & Derrick Co
BESSER MFG CO
Brady Concrete Corp
Concrete Transport Mixer Co
Fairbanks Morse & Co
Fairfield Engineering Co
Fleming Mfg Co Inc
Gifford-Wood Co
Godfrey Conveyor Co
Hyster Company
Jeffrey Mfg Co
Link-Bell Co
Little Giant Products Inc
Neff & Fry Co
Shaw Box Crane & Hoist Div Manning Max-
well & Moore Inc
Silent Hoist & Crane Co

▶ HOISTS, TRUCK

Anthony Company
Cemen Industries Inc
Gallon Allsteel Body Co
GETTY (H S) & CO INC
Heil Company
Hercules Steel Products Corp
Hyster Company
Little Giant Products Inc
Marion Metal Products Co
Perfection Steel Body Co
St Paul Hydraulic Hoist Div Wood (Gar)
Industries Inc
Shaw Box Crane & Hoist Div Manning Max-
well & Moore Inc
Silent Hoist & Crane Co
Stimmel Winch Co
Wood (Gar) Industries Inc
YALE & TOWNE MFG CO

▶ HOLDERS, SAND PAPER

RED DEVIL TOOLS

▶ HOME FREEZERS

Admiral Corp
Amana Society
**AMERICAN CENTRAL DIV AVCO MFG
CORP**
American Refrigerator & Machine Co
Ben-Hur Mfg Co
Brewer-Titchener Corp
Clayton & Lambert Mfg Co
Coolerator Corp
CROSLY DIV AVCO MFG CO
DeepFreeze Div Motor Products Corp
DeLaVal Separator Co
Esco Cabinet Co
Fogel Refrigerator Co
Frigidaire Div General Motors Corp
**GENERAL ELECTRIC CO HOME BUREAU
& CONTRACT SALES DEPT**
General Implement Corp
General Refrigerator Corp
Gibson Refrigerator Co
Giffillan Bros Inc
HOTPOINT INC
International Harvester Co
Jewett Refrigerator Co
Jordan Refrigerator Co
KELVINATOR DIV WASH-KELVINATOR CO
Kennedy Co
Lindemann (A J) & Hoverson Co
Martin-Perry Corp
Masterfreeze Corp
Maytag Co
Muncie Gear Co
**NORGE DIV BORG-WARNER CORP (APPLI-
ANCE DIV)**
Philco Corp
Portable Elevator Mfg Co
Pressed Steel Co
Refrigeration Corp of America
Robbins & Burke Inc
Sanitary Refrigeration Co
Savage Arms Corp
Seibelm Bros
Seeger-Sunbeam Corp
Sub-Zero Freezer Co
Tyler Fixture Co
Victor Products Corp
Ward Refrigerator & Mfg Co
Weber Showcases & Fixture Co
**WESTINGHOUSE ELECTRIC CORP APPLI-
ANCE DIV**
Whiting Corp
Wilson Cabinet Co
Winpower Mfg Co

▶ HONES

BEHR-MANNING CORP DIV NORTON CO
Carborundum Company
GETTY (H S) & CO INC

▶ HOOKS, PLASTIC

Columbus Plastic Products Inc
Fiwale Equipment Mfg Co
GETTY (H S) & CO INC

▶ HOOKS AND EYES, GATE

Larson (Charles G) Co
SARGENT & CO

▶ HOOKS AND EYES, SCREW

Astron Company
FRANTZ MFG CO
Grand Rapids Brass Co
HAGER (C) & SONS HINGE MFG CO
Judd (H L) Co Inc
Larson (Charles G) Co
Lawrence Brothers
NATIONAL LOCK CO
SARGENT & CO
Washburn Company

▶ HOPPERS, AUTOMATIC WEIGHING

BESSER MFG CO
Butler Bin Co
CONSTRUCTION MACHINERY SALES CO
Johnson (C S) Co
Toledo Scale Co
WORTHINGTON CONSTRUCTION CORP
EQUIPMENT SALES DIV

▶ HOSE, AIR COMPRESSOR

Acme Rubber Mfg Co
Boston Woven Hose & Rubber Co
Broadway Rubber Mfg Co
Cincinnati Rubber Mfg Co
Continental Rubber Works
De Villiers Company
Electric Spraying Co
Gates Rubber Co
Gonshall Rubber Co
Goodrich (B F) Co
Kaybestos-Manhattan Inc Manhattan Rubber
Div
Republic Rubber Div Lee Rubber & Tire Corp
Sta-Warm Electric Co
Thermod Company
Union Rubber & Asbestos Co
U S Rubber Co
**WORTHINGTON CORP CONSTRUCTION
EQUIPMENT SALES DIV**

▶ HYDRANTS

American Foundry & Mfg Co
Columbian Pump Co
CRANE COMPANY
Eddy Valve Co
Knights (James) Co
Murdock Mfg & Supply Co
Woodford Hydrant Co

▶ HYDRAULIC TAIL GATES

Anthony Co Inc
Cemen Industries Inc
Day Company
Fruehauf Trailer Co
Heil Co
Hercules Steel Products Corp
Perfection Steel Body Co

▶ INCINERATORS

American Incinerator Corp
Bosser Inc
Brule Incinerator Corp
Colloid Equipment Co Inc
Detroit-Michigan Stove Co
Donley Brothers
Ewing Incinerator Co
Fisher (J W) Iron Works
Goder Incinerator Corp
Houston Blow Pipe & Sheet Metal Works
Incinerator Products Co
Industrial Iron Works
Korm Incinerator Div Morse-Boulger De-
structor Co
MAJESTIC COMPANY
Morse-Boulger Destructor Co
MUELLEN (L J) FURNACE CO
Ohio Stove Co
Pittsburgh Incinerator Co
Seattle Boiler Works
Sprayuse Alloy Metals Corp
Valley Welding & Boiler Co Calculator Div
Watson Sales Mfg Co
Wheeling Corrugating Co

▶ INDICATORS, BUTTON LOCKWOOD HARDWARE MFG CO

▶ INSECTICIDES

Abeo Mfg Corp
Adeo Inc
Ackem Inc
American Agricultural Chemical Co
American Cyanamid Co
American Oil Co
**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
Bengal Company
Bonhide Chemical Co
Boyer Chemical Laboratory Co
Boyle Midway Inc
Camp Chemical Co Inc
Carbola Chemical Co Inc
Carbolinum Wood Preserving Co
Chapman Chemical Co
Chemical Supply Co
Coopers Creek Chemical Corp
Crescent Products Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Dow Chemical Co
DuPont (E I) de Nemours & Co
Glidden Company
Gordon (George C) Chemical Co
Gulf Oil Corp
Harris Products Co Inc
Harron Chemical Co
Hollingshead (R M) Corp
Koppers Co Inc
Lilly Products Co
Linek (O E) Co Inc
Meinhardt (J A) & Co
MONSANTO CHEMICAL CO
Nourse Oil Co
O'Ceard Corporation
Pennsylvania Salt Mfg Co
PITTSBURGH PLATE GLASS CO
Plankett Chemical Co
PROTECTION PRODUCTS MFG CO
Puritan Chemical Co
Rat Biscuit Co
Rotenone Products Co Inc
Schott Laboratories
SHERWIN-WILLIAMS CO
Sincclair Refining Co
Sorony-Vacuum Oil Co Inc
SOLVAY PROCESS DIV ALLIED CHEMICAL & DYE CORP
Standard Oil Co of Ind
Stark (N H) & Co
Swift & Co
Tanglefoot Company
U S Rubber Co
Vaportine Company
Wood-Treating Chemicals Co

► INSTRUMENTS, DRAFTING

Dietzgen (Eugene) Co
Eberhard Faber Penell Co
Higgins (Charles) Co
KEUFFEL & ESSER CO
Loomis Industries
Pickett & Ebel Inc
Post (Frederick) Co
Smith (H E) Co
Stiles (H A) Co
Universal Drafting Machine Corp
WARREN-KNIGHT CO
WHITE (DAVID) CO
Woodrow Engineering Co

► INSTRUMENTS, INDICATING, RECORDING AND CONTROLLING

Bradley (L B) & Co
Colloid Equipment Co Inc
Foxboro Company
GENERAL ELECTRIC CO APPARATUS DEPT
MINNEAPOLIS HONEYWELL REGULATOR CO
Moore Dry Kilo Co
Newark Boiler Regulator Corp
Tagliabue (C J) Corp
Taylor Instrument Co
Western Electrical Instrument Corp
Wheeler Instruments Co

► INSTRUMENTS, SURVEYING

Argyle Manufacturing Co
Berger (C L) & Sons
BOSTON-BRAO MFG CO
Chicago Steel Tape Co
Dietzgen (Eugene) Co
Goldblatt Tool Co
KEUFFEL & ESSER CO
Keystone Asphalt Products Co
Post (Frederick) Co
Royal Oak Industries
Starrett (L S) Co
WARREN-KNIGHT CO
WHITE (DAVID) CO

► INSULATION, ALUMINUM FOIL

Barnhardt Mfg Co
CERTAIN-TEED PRODUCTS CORP
INFRA INSULATION INC
Inst-Cotton Div Taylor Bedding Mfg Co
NATIONAL GYPSUM CO
New Holland Metals Co
Protective Papers Co
REFLECTAL CORP
REYNOLDS METALS CO BUILDING PRODUCTS DIV
U S GYPSUM CO

► INSULATION, BATT OR BLANKET, COTTON FIBER

Barnhardt Mfg Co
CERTAIN-TEED PRODUCTS CORP
Gilman Brothers Co
Inst-Cotton Div Taylor Bedding Mfg Co
Insulation Industries Inc
Janesville Cotton Mills Co
Lockport Cotton Batting Co
Standard Cotton Products Co
Taylor Bedding Mfg Co
U S Rubber Co

► INSULATION, BATT OR BLANKET, COTTON FIBER, ALUMINUM FOIL

Inst-Cotton Div Taylor Bedding Mfg Co

Insulation Industries Inc
Lockport Cotton Batting Co
Standard Cotton Products Co

► INSULATION, BATT OR BLANKET, FIBROUS GLASS

ARMSTRONG CORK CO
INSULITE CO DIV MINNESOTA & ONTARIO PAPER CO
OWENS-CORNING FIBERGLAS CORP

► INSULATION, BATT OR BLANKET, MINERAL WOOL

Acme Asbestos Covering & Flooring Co
Baldwin-Hill Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
CAREY (PHILIP) MFG CO
Carney Co Inc
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Coast Insulating Products
Corson (G & W H) Inc
Eagle-Pleher Co
FLINTKOTE COMPANY
Ford Roofing Products Co
Forty-Eight Insulations Inc
GREAT LAKES CARBON CO PERLITE DIV HUNTINGTON INDUSTRIES INC
Industrial Products Co
Inst-Wool Insulation Corp
JOHNS-MANVILLE CORP
Kelley Island Lime & Transport Co
Kimberly Clark Corp Kimsul Div
Lebon Company
Mineral Insulation Co
NATIONAL GYPSUM CO
National Rock Wool Sales Inc
Plastergen Wall Board Co
Riverton Lime & Stone Co Inc
RODDIS PLYWOOD CORP
Seattle Insulation Mfg Corp
Tennessee Products & Chemical Corp
U S GYPSUM CO
U S Mineral Wool Co
Western Mineral Products Co

► INSULATION, BATT OR BLANKET, WOOD FIBER

CABOT (SAMUEL) INC
Kimberly-Clark Corp
MASONITE CORPORATION
PACIFIC LUMBER CO
RODDIS PLYWOOD CORP
Simpson Logging Co
WOOD CONVERSION CO

► INSULATION, BLOWING WOOL

Asbestos Asphalt & Insulation Inc
BARRETT DIV ALLIED CHEMICAL & DYE CORP
Burton (S T) Co
CAREY (PHILIP) MFG CO
Carney Co Inc
CELOTEX CORP
Eagle-Pleher Co
Forty-Eight Insulations Inc
HUNTINGTON INDUSTRIES INC
Inst-Wool Insulation Corp
JOHNS-MANVILLE CORP
NATIONAL GYPSUM CO
Pal-O-Pak Insulation Co
Seattle Insulation Mfg Co
U S GYPSUM CO
U S Mineral Wool Co
WOOD CONVERSION CO

► INSULATION, BOARD, CORK

ARMSTRONG CORK CO BUILDING MATERIALS DIV

► INSULATION, BOARD, FIBER

Air-O-Cel Co
ARMSTRONG CORK CO
BIRD & SON INC
CELOTEX CORPORATION
CERTAIN-TEED PRODUCTS CORP
DANT & RUSSELL
Fir-Tex Insulating Board Co
FLINTKOTE COMPANY
HOMASOTE COMPANY
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Kimberly-Clark Corp
NATIONAL GYPSUM CO
Plastergen Wall Board Co
Bubatec Div Great American Industries
Simpson Logging Co
U S GYPSUM CO
WOOD CONVERSION CO

► INSULATION, BOARD, MINERAL WOOL

Acme Asbestos Covering & Flooring Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV

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RIALS DIV

Baldwin-Hill Co
CAREY (PHILIP) MFG CO
Chicago Fire Brick Co
Coast Insulating Products
Corson (G & W H) Inc
Green (A P) Fire Brick Co
JOHNS-MANVILLE CORP
Logan-Long Co
OWENS-CORNING FIBERGLAS CORP
Standard Asbestos Mfg Co

► INSULATION, BOARD, REFLECTIVE

Air-O-Cel Co
U S GYPSUM CO

► INSULATION, GLASS, CELLULAR

PITTSBURGH CORNING CORP

► INSULATION, GLASS FOAM

ARMSTRONG CORK CO
Standard Asbestos Mfg Co

► INSULATION, GRANULAR FILL, EXPANDED, VERMICULITE, ETC.

Alexander Felt Co Alexite Engineering Co Div
American Bldgk Co
American Vermiculite Co Inc
Asbestos Supply Co
Empire Roofing & Insulation Co
Gladding McLean & Co
GREAT LAKES CARBON CORP PERLITE DIV
Intermountain Insulation Co
Munn & Steele Inc
Northwest Insulation Co
Pyramid Co
Robinson Insulation Co
Schumway (F E) & Co Inc
Silbrico Corp
Vermiculite Products Corp
Western Mineral Products Co
ZONOLITE CO

► INSULATION, LOOSE FILL, GLASS

ARMSTRONG CORK CO BUILDING MATERIALS DIV
Carney Co Inc
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
Kelley Island Lime & Transport Co
OWENS-CORNING FIBERGLAS CORP

► INSULATION, LOOSE FILL, MINERAL WOOL

Acme Asbestos Covering & Flooring Co
Alton Mineral Wool Co
American Rock Wool Corp
Asbestos Asphalt Insulation Inc
Baldwin-Hill Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
Broadway Rubber Mfg Co
Burton (S T) Co
CAREY (PHILIP) MFG CO
Carney Co Inc
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Chamberlin Co of America Inc
Chicago Fire Brick Co
Coast Insulating Products
Corson (G & W H) Inc
Eagle-Pleher Co
FLINTKOTE CO
GREAT LAKES CARBON CORP PERLITE DIV
Inst-Wool Insulation Corp
JOHNS-MANVILLE CORP
National Rock Wool Sales Inc
OWENS-CORNING FIBERGLAS CORP
Plastergen Wall Board Co
Riverton Lime & Stone Co Inc
Seattle Insulation Mfg Corp
Standard Asbestos Mfg Co
Tennessee Products & Chemical Corp
U S GYPSUM CO
U S Mineral Wool Co

► INSULATION, LOOSE FILL, WOOL CELLULOSE

FLINTKOTE CO
Hines (Edward) Lumber Co
PACIFIC LUMBER CO
Pal-O-Pak Insulation Co Inc

► INSULATION, REFLECTIVE

Alford Insulation Co
American Flange Mfg Co Inc
BIRD & SON INC
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Gilman Brothers
INFRA INSULATION INC
Kimberly-Clark Corp
Lockport Cotton Batting Co
MASONITE CORP
NATIONAL GYPSUM CO
Protective Papers Inc
REYNOLDS METALS CO BUILDING PRODUCTS DIV
RICKKRAFT CO
RODDIS PLYWOOD CORP
Seattle Insulation Mfg Corp
Silvercote Products Inc
SISALKRAFT CO
Taylor Bedding Mfg Co
U S GYPSUM CO

► INSULATION, ROOF, DECK

CELOTEX CORP
Forete Mfg Co
Simpson Logging Co

► IRONERS

Altorf Bros Co
American Ironing Machine Co
APEX ELECTRICAL MFG CO
Armstrong Products Corp
Automatic Washer Co
Barlow & Seelig Mfg Co
BENDIX HOME APPLIANCES INC DIV AVCO MFG CORP
Blackstone Corp
Conlon Bros Mfg Co
Conlon Moore Corp
CROSLY DIV AVCO MFG CORP
Easy Washing Machine Corp
Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO HOME BUREAU & CONTRACT SALES DEPT HOTPOINT INC
Ironite Iron Co
KELVINATOR DIV NASH-KELVINATOR CORP
Lunders Frary & Clark
Maytag Co
Midwest Metal Stamping Co
Nineteen Hundred Corp
Thior Corp
Voss Brothers Mfg Co
WESTINGHOUSE ELECTRIC CORP

► IRON, ORNAMENTAL

ARTCRAFT ORNAMENTAL IRON CO
Badger Wire & Iron Works Inc
Beaux Art Crafts
Bellkoot Co
BELSON MFG CO
Birmingham Ornamental Iron Co
CINCINNATI IRON FENCE CO
COFFMAN (E G) CO
Dallas Iron & Wire Works
Davis & Siehl Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
HART PRODUCTS DIV STRATTON & TERSTEGGE CO
HUNTINGTON INDUSTRIES INC
Huntington Co
Johnson Industries Inc
Locke Mfg Co
Logan Co
Loric Iron Works
METAL CRAFTERS INC
Meyers (Fred L) Mfg Co
Newman Brothers Inc
Rock Island Millwork Co
Sarnoco Ornamental Iron Co
Southern Wire & Iron Works
Stewart Iron Works Co Inc
STURDEE METAL PORCH CO
Wagner Iron Works
Wiemann (Ernest) Iron Works

► IRONS, SOLDERING

Barrett (William L) Co
Benz (Otto) Co Inc
Colloid Equipment Co Inc
Eagle Electric Mfg Co
Electric Soldering Iron Co
Hexacon Electric Co
Lenk Mfg Co
STANLEY TOOLS DIV STANLEY WORKS
Turner Brass Works
Waage Electric Inc
Wall (P) Mfg Co

► IRONS, SOLDERING, ELECTRIC

Everhot Mfg Co
GENERAL ELECTRIC CO APPLIANCE & MERCHANDISE DEPT
Ideal Industries Inc
Lenk Mfg Co
STANLEY TOOLS DIV STANLEY WORKS

► JACKS ADJUSTABLE, WOOD-STEEL

Breyer Brothers Whiting & Co
Clay Equipment Corp
Flint (A W) Co
Holm's Mfg Co of Ohio

M & M Wire Clamp Co
Newark Ladder & Bracket Co Inc
PATENT SCAFFOLDING CO INC
Sourgen (N P) Co
STEEL SCAFFOLDING CO INC
Tomlinson Kelly & Co
United Metal Products Inc

▶ JACKS, CEILING

Gypsum Ceiling Jack Co

▶ JACKS, HOUSE

American Scale Co
American Slein & Foundry Co
Berg (John) Mfg Co
Buda Company
Duff-Norton Mfg Co
Joyce-Cridland Co
Sprague (N P) Co
Stimmel Winch Co
Sweet (A L) Iron Works
Templeton Kenly & Co

▶ JACKS, LADDER

American Ladder Co
Babcock (W W) Co Inc
Bauer Mfg Co
Breyer Brothers Whiting & Co
Davenport Ladder Co
Flint (A W) Co
Goshen Mfg Co
G. R. & G. Stamping Co
Heider Mfg Co
Holland Ladder & Mfg Co
Holm's Mfg Co
Howard Mfg Co
Hyde Mfg Co
Moulton Ladder Mfg Co
Riebel Mfg Co
Ridgely Trimmer Co

▶ JALOUSIES

Casement Hardware Co
Fiswale Equip Mfg Co
Future Products Inc
GATE CITY SASH & DOOR CO
LUDMAN CORP
PRO-TECT-U JALOUSIE CORP
RUSSELL (F C) CO
THORN (J S) CO

▶ JAMBS, DOOR METAL

DELUXE METAL TRIM CO

▶ JAMBS, PACKAGED DOOR

KEWANEE MFG CO
LONG-BELL LUMBER CO
Rock Island Millwork Co
Silerest Co

▶ JIGS, BORING

CORBIN (P & F) DIV AMERICAN HARDWARE CORP
LOCKWOOD HARDWARE MFG CO

▶ JIGS, LOCK MORTISING

KWIKSET SALES & SERVICE CO
NATIONAL BRASS CO
Petko Industries
Vinegar Sales Co
WESTWOOD MFG CO

▶ JOINTERS

ATLAS PRESS CO
BOICE CRANE CO
DE WALT INC
Meyer Woodworker Mfg Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
Walker-Turner Div Kearney & Trecker Corp

▶ JOINTERS, MASON'S

Adams (C F) Inc
Disston (Henry) & Sons Inc
Economy Mfg Co
Goldblatt Tool Co
Marshalltown Trowel Co
Paine (Benjamin) O

▶ JOINTERS, SAW

Atkins (E C) Div Borg Warner Corp
BOICE CRANE CO
Disston (Henry) & Sons Inc
HESTON & ANDERSON DIV ST PAUL FOUNDRY & MFG CO
Meyer Woodworker Mfg Co
Oliver Machinery Co
Power (L) & Co
Powermatic Machine Co
Presenti Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
Stetson-Ross Machine Co
Wallace (J D) & Co
Yates-American Machine Co

▶ JOINTS, EXPANSION

CAREY (PHILIP) MFG CO
CECO STEEL PRODUCTS CO
CELOTEX CORP
FLINTKOTE CO
Horn (A C) Co

JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Meadows (W R) Inc
PITTSBURGH CORNING CORP
Prentice Engineering Co
Protective Paper Inc
ST PAUL CORRUGATING CO
Serviced Products Corp
Tuffall Inc

▶ JOINTS, METAL

Brasco Mfg Co
New Holland Metals Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Soule Steel Co

▶ JOISTS, CONCRETE, PRECAST

CARTER-WATERS CORP
Price Brothers

▶ JOISTS, STEEL

American Bridge Co
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Gabriel Steel Co
GREAT LAKES STEEL CORP
Haven Bush Co
International Steel Co
JONES & LAUGHLIN STEEL CO
LACLEDE STEEL CO
Macomber Inc
Soule Steel Co
STRAN-STEEL DIV GREAT LAKES STEEL CORP
TRUSSON STEEL CO
UNITED STATES STEEL CO

▶ KITCHEN ACCESSORIES

AMERICAN CABINET HARDWARE CORP
AMERICAN CENTRAL DIV AVCO MFG CORP
Autore Co
Baele (Somon) & Co
Bay Ridge Specialty Co Inc
Columbia Metal Box Co
Columbus Plastic Products Inc
Elexo Products Co
Handy Things Mfg Co
Illinois Porcelain Enamel Co
IXL Furniture Co
Jamestown Metal Products Co
KITCHEN MAID CORP
Knappe & Vogt Mfg Co
Ludemann (A J) & Hoverson Co
MIAMI CABINET DIV CAREY (PHILIP) MFG CO
Morton Mfg Co
MULLINS MFG CORP
PITTSBURGH PLATE GLASS CO
St Charles Mfg Co
Superior Household Mfg Co
TRACY MFG CO DIV EDGEWATER STEEL CO
U S Lock & Hardware Co

▶ KITCHEN CABINET ACCESSORIES

AMERICAN CABINET HARDWARE CO
AMERICAN CENTRAL DIV AVCO MFG CORP
BERGER MFG CO REPUBLIC STEEL CORP
CARR ADAMS & COLLIER CO
Elden Mfg Co
Engineered Products Co
Excel Metal Cabinet Co Inc
Fiswale Equipment Mfg Co
GETTY (W S) & CO INC
IXL Furniture Co
Jamestown Metal Products Co
KITCHEN MAID CORP
Knappe & Vogt Mfg Co
Lyon Metal Products Inc
McMANAN MFG CO
Midwest Mfg Co
Morgan Co
Morton Kitchen Cabinet Div Morton Mfg Co
MULLINS MFG CO
NATIONAL BRASS CO
Paragon Utilities Corp
SARGENT & CO
TOLEDO DESK & FIXTURE CO
TRACY MFG CO DIV EDGEWATER STEEL CO
WASHINGTON STEEL PRODUCTS INC
YALE & TOWNE MFG CO

▶ KITCHEN CABINETS, METAL

Acme Metal Products Corp
AMERICAN CENTRAL DIV AVCO MFG CORP
ANGEL NOVELTY CO
BERGER MFG DIV REPUBLIC STEEL CORP
CROSLLEY DIV AVCO MFG CORP
DOWYER PRODUCTS CORP
Elgin Stove & Oven Div Acme Visible Records Inc
Excel Metal Cabinet Co
Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO APPLIANCE & MERCHANDISE DEPT
Genova Modern Kitchens Inc
Gold Seal Mfg Co
Harrison Steel Cabinet Co
HOTPOINT INC

HUBENY BROS INC
Humphreys Mfg Co
Jamestown Metal Products Co
KELVINATOR DIV WASH-KELVINATOR CORP
Lyon Metal Products Co
MARVEL METAL PRODUCTS CO
Midwest Mfg Co
Miller Metal Products Inc
Morton Mfg Co
MULLINS MFG CORP
MURPHY DOOR BED CO INC
MURRAY CORP OF AMERICA
National Metal-Art Mfg Co
Palley Mfg Co
Paragon Utilities Corp
Pioneer Co
Royalmaid Kitchen Inc
St Charles Mfg Co
Sudler Corp
TOLEDO DESK & FIXTURE CO
TRACY MFG CO DIV EDGEWATER STEEL CO
United Metal Box Co
Western Metalcraft Inc
Wood-Metal Industries

▶ KITCHEN CABINETS, WOOD

Ahlbrand (A H) Co
ANGEL NOVELTY CO
Bel-Wood Mfg Co
Boro Wood Co
Boro Wood Products Co Inc
Burke Millwork Co
Cameron (Wm) & Co Inc
CARR ADAMS & COLLIER CO
Cole Mfg Co
Colonial Products Co
CURTIS COMPANIES INC
Davis Plywood Corp
Del-Mar Cabinet Co Inc
Dyke Brothers
Farley & Loetscher Mfg Co
Gannon Mfg Co
General Wood Works
GREGG & SON
Hines (Edward) Lumber Co
Huttig Mfg Co
Huttig Sash & Door Co
Hyde Park Lumber Co
Ideal Co
IXL Furniture Co
Kinzua Pine Mills Co
KITCHEN MAID CORP
Kraus (Walter S) Co
LONG-BELL LUMBER CO
Lorant Millwork Co
MENGEL CO INC
Morgan Co
Morgan Sash & Door Co
Mutschler Brothers
Pioneer Co
Rock Island Millwork Co
Slosswood Inc
Spokane Sash & Door Co
Sterling Freeland Industries Inc
Wood-Metal Industries

▶ KITCHENS, UNIT

BRAMMER MFG CO
CARR ADAMS & COLLIER CO
Douglas Distributor Co
DOWYER PRODUCTS CO
Earle Kitchen Unit Co
Frost-Stevens Sales Co
GENERAL AIR CONDITIONING CORP
GENERAL ELECTRIC CO
HOTPOINT INC
HUBENY BROTHERS INC
MURPHY DOOR BED CO
MURRAY CORP OF AMERICA
Woodmetal Industries Inc

▶ KITCHEN VENTILATING HOODS

Badger Corrugating Co
FAWCO MFG DIV FALL STAMPING & WELDING
ROBERTS MFG CO
St Anthony Corp
Universal Blower Co
Vent-A-Hood Co

▶ KITS, HOME PLANNING

Horn-O-Graf Planner Inc
Plaintiff Co
SAN ANGELO PLAN

▶ KNIVES, FIBER BOARD

KIMBALL MFG CO INC
Selek (Walter E) & Co

▶ KNIVES, HIGH SPEED

Atkins (E C) Div Borg Warner Corp
Disston (Henry) & Sons Inc
Eastrom Carlson & Co
Haubert Mfg Co
Hoe (R) & Co Inc
Huther Brothers Saw Mfg Co Inc
Oliver Machinery Co
SIMONDS SAW & STEEL CO
Taylor-Stiles & Co
Woods (S A) Machine Co

▶ KNIVES, MACHINE

American Knife Co
ATKINS (E C) Div Borg Warner Corp
Disston (Henry) & Sons Inc
Hoe (R) & Co Inc
Holmes (E & B) Machinery Co
Huther Brothers Saw Mfg Co Inc
Mitts & Morrill
Oliver Machinery Co
SIMONDS SAW & STEEL CO
Taylor Stiles & Co
Woods (S A) Machine Co

▶ KNIVES, PUTTY, ROOFING, LINOLEUM

Barrett (W L) Co
Black Panther Tool Co
Bridgeport Hardware Mfg Corp
B & T METALS CO
Clyde Cutley Co
Edwards Mfg Co
FASTENER CORP
GETTY (W S) & CO INC
Glaziers' Tool Mfg Co
Goldblatt Tool Co
Hardy Things Mfg Co
Hyde Mfg Co
Kier-Vue Knife Rack Co Inc
Lanson & Goodnow Mfg Co
Lansers Frary & Clark
Lehon Co
MACKLANBURG-DUNCAN CO
Metal Trims Inc
Modern Specialties Co
Murray-Black Co
National Guard Products
Parker (Ira) & Sons Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
Ridgely Trimmer Co
Robeson Cutlery Co Inc
Russell Harrington Cutlery Co
Sandvik Saw & Tool Corp
Schrade (George)
Seal Bite Caulking Co Inc
Selek (Walter E) & Co
Southington Hardware Mfg Co
S & W Moulding Co
Taylor-Stiles & Co
Tough Mfg Co
Warner Mfg Co
Williams Products Co Inc
Youngstown Mfg Inc

▶ KNIVES, VENEER

Atkins (E C) Div Borg Warner Corp
Disston (Henry) & Sons Inc
Hoe (R) & Co Inc
SIMONDS SAW & STEEL CO

▶ LADDER ACCESSORIES

Breyer Bros Whiting & Co
Dayton Safety Ladder Co
Dun-Safety Ladder Corp
Holmes Mfg Co of Ohio
Lewis-Skinner Co
Michigan Ladder Co
PATENT SCAFFOLDING CO INC
RED DEVIL TOOLS
Safety Equipment Service Co
STEEL SCAFFOLDING CO INC
WAGNER MFG CO

▶ LADDER, STEPS, SAFETY

Campbell (A S) Co Inc
O'Neill (Carl W) Associates Inc

▶ LADDERS, ALUMINUM

Aluminum Ladder Co
American Ladder Co
Chesley Industries Inc
Werner (R D) Co
Wilson-Albrecht Co

▶ LADDERS, STEEL

Arvis Mfg Co
Baltimore Co
Chesley Industries Inc
Fiswale Equipment Mfg Co
International Steel Co
Logan Co
Newark Ladder and Bracket Co Inc
Precision Equipment Co
Werner (R D) Co

▶ LADDERS, WOOD, ALL TYPES

American Ladder Co
Babcock (W W) Co
Bauer Mfg Co
Beh & Company Inc
Berg (John) Mfg Co
Breyer Brothers Whiting Co
Clark (J R) Co
Davenport Ladder Co
Flint (A W) Co
Frizzell Ladder Co
Goshen Chain & Ladder Co
Goshen Mfg Co
Green (Harry A) & Son
Heider Mfg Co
Heller (W C) & Co
Holland Ladder & Mfg Co
Hupson (W C) Co
Howard Mfg Co
Los Angeles Ladder Co
Michigan Ladder Co
Moulton Ladder & Mfg Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Newark Ladder & Bracket Co Inc
PATENT SCAFFOLDING CO INC
PITTSBURGH PLATE GLASS CO
 Rich (Howard E)
 Rich Ladder & Mfg Co
RICHARDS-WILCOX MFG CO
ROWE MFG CO
 Smith (S A) Mfg Co
 Tacoma Lumber Fabricating Co
 Tilly (John S) Ladders Co
 Topping Ladder Co
 Warren (J D) Mfg Co
 White Wood Products Co
 Willamette Valley Lumber Co
 Woodware Products Corp
 Young (J O) Co
 Zoss Ladder & Mfg Co

► **LAMPS, FLUORESCENT**
GENERAL ELECTRIC CO LAMP DEPT
 Sylvania Electric Products Inc
WESTINGHOUSE ELECTRIC CORP LAMP DIV

► **LAMPS, INCANDESCENT**
GENERAL ELECTRIC CO LAMP DEPT
 Lightmore Appliance Corp
 Pennsylvania Illuminating Corp
 Safety Electric Co
 Silway Lighting Inc
 Sylvania Electric Products Inc
 Verd-A-Ray Corp
WESTINGHOUSE ELECTRIC CORP LAMP DIV

► **LAMPS & LANTERNS, CAMP**

COLEMAN CO INC
 Cupples Co
 Dietz (R E) Co
 Erico Mfg Co
 Faries Mfg Co
 Guth (Edwin F) Co
 Justrite Mfg Co
 Mantle Lamp Co of America
 Miller (Robert E) & Co Inc
 National Stamping & Electric Works
 Overmyer-Perran Glass Co
 Parker (Charles) Co
 Samece (Wm J) Iron Co
 Stewart Iron Works Co Inc
 Swain & Bridge

► **LANTERNS, ORNAMENTAL IRON**

Stewart Iron Works Co Inc

► **LATCHES**

Champion Hardware Co
 Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
DEXTER LOCK CO
 Duncan Shaw Corp
EAGLE LOCK CO
HAGER (C) & SONS HINGE MFG CO
 Ideal Brass Works Inc
 Knape & Vogt Mfg Co
LOCKWOOD HARDWARE MFG CO
NATIONAL LOCK CO
 Parlyn Ltd
 Penn Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
 Skillman Hardware Co
 Technical Glass Co Inc
 Wagner Mfg Co

► **LATCHES, GATE**

Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
 Fwale Equipment Mfg Co
FRANTZ MFG CO
HAGER (C) & SONS HINGE MFG CO
 Ideal Brass Works Inc
 Kees (F D) Mfg Co
LOCKWOOD HARDWARE MFG CO
 McKinner Mfg Co
NATIONAL BRASS CO
NATIONAL MFG CO
 Norwalk Lock Co
 Reading Hardware Corp
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
 Sharon Hardware Mfg Co
 Slaymaker Lock Co
 Standard Bronze Co
STANLEY WORKS
 Starline Inc
 Wrightsville Hardware Co

► **LATCHES, MAGNETIC FOR CUPBOARD DOORS**

LABORATORY EQUIPMENT CORP

► **LATH, COMPOSITION OR KEY**

JOHNS-MANVILLE CORP
 Sommer Metalcraft Corp
 SOUTHERN PINE LUMBER CO

► **LATH, GYPSUM**

CELOTEX CORP

CERTAIN-TEED PRODUCTS CORP
 Grand Rapids Plaster Co
NATIONAL GYPSUM CO
 Schumacher Wall Board Corp
U S GYPSUM CO

► **LATH, INSULATING**

ARMSTRONG CORK CO BUILDING MATERIALS DIV
CERTOX CORP
CERTAIN-TEED PRODUCTS CORP
 Fir-Tex Insulating Board Co
FLINTKOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
 Keystone Asphalt Products Co
NATIONAL GYPSUM CO
 Plasteron Wall Board Co
 Simpson Logging Co
 U S Gypsum Co
WOOD CONVERSION CO

► **LATH, METAL**

Alabama Metal Lath Co
 Allen Steel Products
BERGER MFG DIV REPUBLIC STEEL CORP
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
 Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
KEYSTONE STEEL & WIRE CO
NATIONAL GYPSUM CO
PENN METAL CO INC
PITTSBURGH STEEL PRODUCTS CO
 Sealcon Products Inc
 Soule Steel Co
TRUSCON STEEL CO
U S GYPSUM CO
 Wheeling Corrugating Co
WICKWICK SPENCER STEEL DIV COLORADO FUEL & IRON CORP

► **LATH, WOOD**

Anaconda Copper Mining Co
 Angelina County Lumber Co
 Brooks-Scanlon Inc
 Cascade Lumber Co
CONNOR LUMBER & LAND CO
CROSSETT LUMBER CO
 Diamond Match Co
 Dietz Lumber & Coal Co
 Fletch Lumber Co
 Fordyce Lumber Co
 Hines (Edward) Lumber Co
 Kinross Pine Mills Co
LONG-BELL LUMBER CO
 Mank Seattle Lumber Co
 McCloud Lumber Co
 Neils (J) Lumber Co
 Rainy Lake Lumber Co Ltd
RODDIS PLYWOOD CORP
 St. Paul & Tacoma Lumber Co
WEYERHAEUSER SALES CO

► **LATHES**

ATLAS PRESS CO
DE WALT INC
 Duro Metal Products Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
 Wallace (J D) & Co
WHITNEY (BAXTER D) & SON INC

► **LATHING, SUSPENDED CEILING SYSTEMS**

ARMSTRONG CORK CO BUILDING MATERIALS DIV
 Pittsburgh Steel Products Co
U S GYPSUM CO

► **LAVATORIES, CABINETS**

Bennett Mfg Co
FORMICA CO
 Ideal Cabinet Co
 Standard Steel Cabinet Co
TOLEDO DESK & FIXTURE CO

► **LEAD, RED**

American Varnish Co
 Berry Brothers Inc
 Breving Brothers Inc
 Burdall (A) Co
 Devore & Reynolds Co Inc
 Eagle-Picher Co
 General Paint Corp
 Glidden Co
 Hammond Lead Products Inc
 National Lead Co
 Peaslee-Gauthier Paint & Varnish Co
SHERWIN-WILLIAMS CO
 Twentieth Century Paint & Varnish Corp
 Vita-Var Corp

► **LEAD, WHITE**

Acme White Lead & Color Works
 American Varnish Co
 Anaconda Sales Co
 Burdall (A) Co
 Devore & Reynolds Co Inc
 Du Pont (E I) de Nemours & Co Inc

Eagle-Picher Co
 Felton Sibley & Co Inc
 Fuller (W F) & Co Inc
 Gillespie Varnish Co
 Glidden Co
 Hoboken White Lead & Color Works
 National Lead Co
PITTSBURGH PLATE GLASS CO
SHERWIN-WILLIAMS CO
 Steelcote Mfg Co
 Twentieth Century Paint & Varnish Corp

► **LEVELING, WALL, MATERIALS FOR**

Reardon Co
 Tamma Industries Inc

► **LEVELS, CARPENTER'S MASON'S**

BOSTROM BRADY MFG CO
 Brown Instrument Co
 Dison (Henry) & Sons Inc
 Empire Level Mfg Co
 Goldblatt Tool Co
 Graham (John H) & Co Inc
 Hall Level & Mfg Works
 Hydrolevel
 International Mfg Co
KEUFFEL & ESSER CO
LEVELALL
 Mayes Brothers Tool Mfg Co
 Millers Falls Co
 Ox-Wall Tool Co
 Peerless Level & Tool Co
 Sander Level & Tool Co
SCHARF (J H) MFG CO
 Schuldes Level Inc
SIMPLEX LEVEL CO
 Singer-Kennedy Corp
STANLEY TOOLS DIV STANLEY WORKS
 Starrett (L S) Co
 Stevens (E A) Level Co
WARREN-KNIGHT CO

► **LIGHTING PLANTS**

ALLIS-CHALMERS MFG CO
 Benjamin Electric Mfg Co
 Briggs & Stratton Corp
 Buha Co
 Continental Motors Corp
 Eagle Electric Mfg Co Inc
 Fairbanks Morse & Co
GENERAL ELECTRIC CO APPARATUS DEPT
 Guth (Edwin F) Co
HOMELITE CORP
 Johnson Motors Div Outdoor Marine & Mfg Co
 Kato Engineering Co
KOHLER CO
 Onan (D W) & Sons Inc
 Phelps Power & Light Co
 Pioneer Gen-E-Motor Corp
 Ready-Power Co
 Universal Motor Co
WESTINGHOUSE ELECTRIC CORP
 Wincharger Corp
 Wind (Jacob) Electric Co Inc
 Winpower Mfg Co

► **LIGHTS, FLUORESCENT**

Bryant Electric Co
 Cupples Co
 Curtis Lighting Inc
 Eagle Electric Mfg Co Inc
GENERAL ELECTRIC CO
 Guth (Edwin F) Co
 Long (W H) Co
 Metalcraft Screen Co
MIAMI CABINET DIV PHILIP CAREY MFG CO
 Superior Plastics Div Commonwealth Plastics Inc
WESTINGHOUSE ELECTRIC CORP

► **LIGHTS, SPOT & FLOOD**

GENERAL ELECTRIC CO APPARATUS DEPT
 Haledy Electronics Co
 Pyle-National Co
WESTINGHOUSE ELECTRIC CORP

► **LIME, FINISHING**

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
 Fairmont Wall Plaster Co
 Gilsburg Lime Products Co
 Kelley Island Lime & Transport Co
 Keystone Lime Works Inc
LOUISVILLE CEMENT CO INC
 Marblehead Lime Co
 Mission Lime Products Corp
NATIONAL GYPSUM CO
 Twentieth Century Paint & Varnish Corp
OHIO HYDRATE & SUPPLY CO
 Standard Lime & Stone Co
U S GYPSUM CO
 Washington Brick & Lime Co
 Western Lime & Cement Co
 Woodville Lime Co

► **LIME, HYDRATED**

CELOTEX CORP

CERTAIN-TEED PRODUCTS CORP
 Chicago Fire Brick Co
 Corson (G & W H) Inc
 Gilsburg Lime Products Co
 Kelley Island Lime & Transport Co
 Keystone Lime Works Inc
LOUISVILLE CEMENT CO INC
 Marblehead Lime Co
 Mission Lime Products Corp
 National Lime & Stone Co
OHIO HYDRATE & SUPPLY CO
 Riverton Lime & Stone Co Inc
 Standard Lime & Stone Co
U S GYPSUM CO
 Warner Co
 Washington Brick & Lime Co
 Woodville Lime Co

► **LIME, MASON'S**

Carney Co Inc
CERTAIN-TEED PRODUCTS CORP
 Gilsburg Lime Products Co
 Kelley Island Lime & Transport Co
 Keystone Lime Works Inc
LOUISVILLE CEMENT CO INC
 Marblehead Lime Co
NATIONAL GYPSUM CO
 North American Cement Corp
OHIO HYDRATE & SUPPLY CO
 Riverton Lime & Stone Co Inc
 Standard Lime & Stone Co
U S GYPSUM CO
 Warner Co
 Woodville Lime Co

► **LIME, PEBBLE**

Kelley Island Lime & Transport Co
LOUISVILLE CEMENT CO INC
 Marblehead Lime Co
 Mission Lime Products Corp
NATIONAL GYPSUM CO
U S GYPSUM CO

► **LIME, QUICK**

Corson (G & W H) Inc
 Gilsburg Lime Products Co
 Kelley Island Lime & Transport Co
LOUISVILLE CEMENT CO INC
 Marblehead Lime Co
 Mission Lime Products Corp
 National Lime & Stone Co
OHIO HYDRATE & SUPPLY CO
 Standard Lime & Stone Co
U S GYPSUM CO
 Warner Co
 Western Lime & Cement Co
 Woodville Lime Co

► **LINING, CLOSET, CEDAR**

Aetna Plywood & Veneer Co
BRADLEY LUMBER CO OF ARK
BROWN (GEORGE C) & CO INC
BRUCE (E L) CO
 Cedar-Lux Products Co Inc
 Doddington (E D) Mfg Co
 Fordyce-Crossett Lumber Co
 Frost Lumber Industries Inc
 Osage Products Co
 Rustic Furniture Co Inc
 Trimz Co Inc
 Twin City Hardwood Lumber Co
WEYERHAEUSER SALES CO

► **LINING, FLUE**

Acme Brick Co
 Alliance Clay Products Co
 American Vitrified Products Co
 Bowerton Shale Co
 Cannelton Sewer Pipe Co
 Chicago Fire Brick Co
 Clay City Pipe Co
 Columbia Pipe Co
CONDENSATION ENGINEERING CORP
 Dee Clay Products Co
 Denver Sewer Pipe & Clay Co
 Dickey (W S) Clay Mfg Co
 Evans Pipe Co
 Green (A P) Fire Brick Co
 Hoeking Valley Brick Co
 Kaul Clay Mfg Co
 Kingsland Clay Products Co
 Lehigh Sewer Pipe & Tile Co
 Mexico Refractories Co
NATIONAL CLAY PIPE MFRS INC
 National Fireproofing Co
 Owensboro Sewer Pipe Co Inc
 Pacific Clay Products
 Patton Clay Mfg Co
 Robinson Clay Products Co
 Stillwater Clay Products Co
 Stretator Drain Tile Co
 Superior Clay Corp
 Union Clay Mfg Corp
 Universal Sewer Pipe Corp
 Washington Brick & Lime Co
 What Cheer Clay Products Co
 Williams-Wallace Co

► **LINOLEUM**

ARMSTRONG CORK CO
BIRD & SON INC
 Bonafide Mills Inc
 Congoleum-Nairn Inc
 Fabeo Products Inc
 Sloane-Blabon Corp

► **LINTELS, STEEL**

BENNETT-IRELAND INC
BERGER MFG DIV REPUBLIC STEEL CORP
BUILDERS MFG CO

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Consolidated Iron-Steel Mfg Co
Donley Brothers Co
Gabriel Steel Co
KEWANEE MFG CO
MAJESTIC CO
PRICE FIREPLACE HEATER & TANK
CORP
Southern Wire & Iron Works
STEELCRAFT MFG CO
SUPERIOR FIREPLACE CO
TRUSCON STEEL CO
VENTO STEEL PRODUCTS CO INC

LOADERS, BUCKET

Barber-Greene Co
Brady Conveyors Corp
DEARBORN MOTORS CORP
Fairfield Engineering Co
Hain (George) Mfg Co Div Pettibone Mul-
liken Corp
Hyster Co
JAEGER MACHWNE CO
Link-Belt Co
Little Giant Products Inc
Martrak Co
Nelson (N P) Iron Works
OLIVER CORP

LOCK MORTISING MACHINES

BOICE-CRANE CO
Greenlee Brothers & Co
MILL TOOL CO
Oliver Machinery Co
PORTER-CABLE MACHINE CO
STANLEY ELECTRIC TOOL DIV STANLEY
WORKS
Wallace (J D) & Co

LOCKERS, STEEL

All-Steel Equipment Co
BERGER MFG DIV REPUBLIC STEEL CORP
Lyon Metal Products Inc
Precision Equipment Co
Red-Tiger Products Inc
Smith (F P) Wire & Iron Works Inc
Standard Equipment Co
Universal Steel Equipment Corp

LOCKERS, WOOD

Cole Mfg Co
CURTIS COS INC
Heller (W C) & Co

LOCKS, DOOR

ADAMS-RITE MFG CO
ALLITH-PROUTY INC
Arrow Lock Corp
Best Universal Lock Co Inc
Champion Hardware Co
Chester (J) & Sons
Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP
Detroit Hardware Mfg Co
DEXTER LOCK CO
Dieco Machine Tool Co
Dunham Shute Corp
EAGLE LOCK CO
EARLE HARDWARE MFG CO
Engineered Products Co
Fawcett Equipment Mfg Co
FRANTZ MFG CO
Geneco Tool Div General Steel Warehouse Co
Harloe Products Corp
Harris Inc
Harvard Lock Co
Hollymads Hardware Mfg Co
Hunter Tool Co
Ideal Brass Works Inc
INDEPENDENT LOCK CO
Ives (H B) Co
KWIKSET SALES & SERVICE CO
La Belle Industries Inc
Lawrence Brothers
LOCKWOOD HARDWARE MFG CO
McKinney Mfg Co
Milwaukee Stamping Co
NATIONAL BRASS CO
NATIONAL LOCK CO
NATIONAL MFG CO
Newell Mfg Co
Ney Mfg Co
Norwalk Lock Co Div Segal Lock & Hardware
Co

Oley Products Inc
Pacific Plastic & Mfg Co
Parker (S) Hardware Mfg Corp
Parlyn Ltd
Peabody Co Inc
Penn Hardware Co
Petko Industries
Reading Hardware Corp
Reese Padlock Co
RICHARDS-WILCOX MFG CO
RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE
MFG CO
SARGENT & CO
SCHLAGE LOCK CO
Segal Lock & Hardware Co Inc
Skillman Hardware Mfg Co
Slaymaker Lock Co
Standard Bronze Co
STERLING HARDWARE MFG CO
Superior Plastics Div Commonwealth Plastics
Inc
Taylor Lock Co
Technical Glass Co Inc

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Vimear Sales Co
WESTWOOD MFG CO

LOCKS, PADLOCK

Best Universal Lock Co
Chicago Lock Co
CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP
Diebold Inc
Dudley Lock Corp
EAGLE LOCK CO
Fawcett Equipment Mfg Co
Gouglar (C L) Co Lock Div
Illinois Lock Co
INDEPENDENT LOCK CO
Johnson Fare Box Co
LOCKWOOD HARDWARE MFG CO
Master Lock Co
Norwalk Lock Co Div Segal Lock & Hardware
Co
Parker (S) Hardware Co
RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP
Reese Padlock Co
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE
MFG CO
SARGENT & CO
Segal Lock & Hardware Co Inc
Slaymaker Lock Co
YALE & TOWNE MFG CO

LOCKS, TUBULAR

Arrow Lock Corp
Best Universal Lock Co
Chester (J) & Sons Inc
Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP
DEXTER LOCK CO
FRANTZ MFG CO
Harloe Products Corp
Hollymads Hardware Mfg Co
KWIKSET SALES & SERVICE CO
LOCKWOOD HARDWARE MFG CO
NATIONAL BRASS CO
National Hardware Co
Norwalk Lock Co
Oley Products Inc
Parker (S) Hardware Mfg Corp
Penn Hardware Co
Reading Hardware Corp
RUSSELL & ERWIN DIV AMERICAN HARD-
WARE CORP
Safe Padlock & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE
MFG CO
SARGENT & CO
SCHLAGE LOCK CO
Slaymaker Lock Co
Technical Glass Co Inc
WESTWOOD MFG CO
YALE & TOWNE MFG CO HARDWARE DIV

LOG CABINS

Rustic Furniture Co Inc

LOGS, FIREPLACE, GAS & ELECTRIC

HEATILATOR INC
SHEPLER MFG CO

LOUVERS

AIR CONTROL PRODUCTS INC
CHELSEA FAN & BLOWER CO
Krauser-Bond Inc
MILAMI CABINET DIV CAREY (PHILIP)
MFG CO
Midget Louver Co
Reed Unit-Fans Inc

LOUVERS, ATTIC VENTILATING

AIR CONTROL PRODUCTS INC
Allen Steel Products
American Sheet Metal Works
Arax Co
Bodger Corrugating Co
ROSTWICK STEEL LATH CO
CARR ADAMS & COLLIER CO
CECO STEEL PRODUCTS CORP
Clay Equipment Corp
Conoco Miracle Products
CURTIS COS INC
Donley Brothers
Eagle-Plater Co
Edwards Mfg Corp
Perley-Crossett Lumber Co
GREGG & SON INC
Harris Inc
Hemphill (A D) Co
Holm's Mfg Co of Ohio
Home Comfort Mfg Co
HOUGH SHADE CORP
Ideal Co
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
KEWANEE MFG CO
Klauer Mfg Co
Kool-Air Engineering Co
Krauser-Bond Inc
LESLIE WELDING CO
Lockport Wood Products Co

Louwer Mfg & Supply
Marquart Millwork Co
Midget Louver Co
Morgan Nash & Door Co
NICHOLS WIRE & ALUMINUM CO
Parker (S) Hardware Mfg Corp
Roach & Mouser Co
Rock Island Millwork Co
Rudeen (N H) Co
SHEPLER MFG CO
Standard Steel Cabinet Co
Swartsmoot Co
U S GYPSUM CO
Vimear Sales Co
Webb Mfg Co
Wollasger Steel Corp

LUMBER, BEECH

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CROSSETT LUMBER CO
FAIR (D L) LUMBER CO
LONG-BELL LUMBER CO
MENGEL CO
PARKAY INC

LUMBER, BIRCH

CONNOR LUMBER & LAND CO
PARKAY INC
RODDIS PLYWOOD CORP
Williams-Brownell Inc

LUMBER, CEDAR, RED, WESTERN

WEYERHAEUSER SALES CO

LUMBER, CYPRESS

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CROSSETT LUMBER CO
LONG-BELL LUMBER CO
MENGEL CO
SOUTHERN PINE LUMBER CO

LUMBER, FIR, DOUGLAS

ASSOCIATED PLYWOOD MILLS
HARBOR PLYWOOD CORP
LONG-BELL LUMBER CO
Simpson Logging Co
U S PLYWOOD CORP
WEYERHAEUSER SALES CO

LUMBER, GUM

ATLAS PLYWOOD CORP
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CROSSETT LUMBER CO
FAIR (D L) LUMBER CO
WIGGIN INC
LONG-BELL LUMBER CO
MENGEL CO
SOUTHERN PINE LUMBER CO

LUMBER, HEMLOCK, WESTERN

BRADLEY LUMBER CO
LONG-BELL LUMBER CO
SIMPSON LOGGING CO
WEYERHAEUSER SALES CO

LUMBER, LARCH, WESTERN

WEYERHAEUSER SALES CO

LUMBER, MAPLE

BRUCE (E L) CO
CONNOR LUMBER & LAND CO
LONG-BELL LUMBER CO
MENGEL CO
PARKAY INC
RODDIS PLYWOOD CORP

LUMBER, OAK, RED AND WHITE

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CROSSETT LUMBER CO
FAIR (D L) LUMBER CO
LONG-BELL LUMBER CO
MENGEL CO
PARKAY INC
RODDIS PLYWOOD CORP
SOUTHERN PINE LUMBER CO

LUMBER, PECAN

BRADLEY LUMBER CO OF ARK
CROSSETT LUMBER CO
MENGEL CO
SOUTHERN PINE LUMBER CO

LUMBER, PINE, PONDEROSA

LONG-BELL LUMBER CO
Oregon Lumber Co
WEYERHAEUSER SALES CO

LUMBER, PINE, SUGAR

ATLAS PLYWOOD CORP
LONG-BELL LUMBER CO
WEYERHAEUSER SALES CO

LUMBER, PINE, WHITE, IDAHO

WEYERHAEUSER SALES CO

LUMBER, PINE, WHITE, NORTHERN

CONNOR LUMBER AND LAND CO
LONG-BELL LUMBER CO
RODDIS PLYWOOD CORP
WEYERHAEUSER SALES CO

LUMBER, PINE, YELLOW, SOUTHERN

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CROSSETT LUMBER CO
FAIR (D L) LUMBER CO
LONG-BELL LUMBER CO
MENGEL CO INC
SOUTHERN PINE LUMBER CO

LUMBER, POPLAR

BRUCE (E L) CO
FAIR (D L) LUMBER CO
MENGEL CO
PARKAY INC

LUMBER, REDWOOD

PACIFIC LUMBER CO
Simpson Logging Co

LUMBER, SPRUCE, SITKA

ATLAS PLYWOOD CORP
WEYERHAEUSER SALES CO

LUMBER, CREOSOTED & SALT TREATED

CROSSETT LUMBER CO
FAIR (D L) LUMBER CO
LONG-BELL LUMBER CO
TIMBER STRUCTURES INC
WEYERHAEUSER SALES CO

LUMBER, FLAMEPROOF

CROSSETT LUMBER CO

MAIL BOXES & DROPS

AIR CONTROL PRODUCTS INC
Ajax Hardware Mfg Corp
Allen Steel Products
American Device Mfg Co
AUM ELECTRICAL CO
B & T METALS CO
Champion Hardware Co
Clipo Corp
COFFMAN (R G) CO INC
Collins (George F) & Co
Columbia Metal Box Co
CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP
DEXTER LOCK CO
Donley Brothers
Ereo Mfg Co
Fawcett Equipment Mfg Co
GETTY (H S) & CO INC
Harris Inc
INLAND STEEL PRODUCTS CO
Ives (H B) Co
LOCKWOOD HARDWARE MFG CO
McKinney Mfg Co
NATIONAL BRASS CO
Norwalk Lock Co Div Segal Lock & Hardware
Co
Parker (S) Hdwe Mfg Corp
Penn-Greg Mfg Co
Perfection Store Device Co
Reading Hardware Corp
Reflecto Letters
SAGER-BARROWS DIV YALE & TOWNE
MFG CO
SARGENT & CO
Skillman Hardware Co
Slaymaker Lock Co
Sperti Faraday Inc
Standard Bronze Co
Wiemann (Ernest) Iron Works
YALE & TOWNE MFG CO

MANDRELS, SAW

Reach Mfg Co
Chase Turbine Mfg Co
Clabe Brothers Mfg Co
Consolidated Machinery & Supply Co Ltd
Corinth Machinery Co
Cunningham Machinery Corp
Fay (J A) & Egan Co
Filer & Stowell Co
Huther Brothers Saw Mfg Co Inc
Industrial Iron Works
Lane Mfg Co
Prescott Co
Yates-American Machine Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

▶ MANTELS, FIREPLACE

Burke Millwork Co
Cole Mfg Co
Columbia Mantel Co Inc
CURTIS COS INC
Farley & Loetscher Mfg Co
GREGG & SON INC
Huttig Mfg Co
Ideal Co
Marquart Millwork Co
Morgan Co
READYBUILT PRODUCTS CO
Roush & Musser Co
Snedaker (Frank C) & Co Inc

▶ MESH, WIRE

AMERICAN STEEL & WIRE CO
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
COLORADO FUEL & IRON CORP
Columbia Steel Co
CURTIS COS INC
KEYSTONE STEEL & WIRE CO
KEYSTONE WIRE CLOTH CO
Logan Co Inc
Northwestern Steel & Wire Co
Pioneer Co
Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
Sheffield Steel Corp
Smith (F P) Wire & Iron Works Inc
Southern Wire & Iron Works
TENNESSEE COAL IRON & RR CO
TRUSCON STEEL CO
Wheeling Corrugating Co
Wickwire Brothers Inc
**WICKWIRE SPENCER STEEL DIV COLO-
RADO FUEL & IRON CORP**

▶ METAL LATH MACHINES, CUTTER

Harvey Mfg Co
Sartelmeier Mfg Co

▶ METAL SINK BOWLS

International Nickel Co
Jamestown Metal Products Co
Legion Stainless Sink Corp
**TRACY MFG CO DIV EDgewater STEEL
CO**

▶ MICROMETERS

Brown & Sharpe Mfg Co
LUFKIN RULE CO
Millers Falls Co
Starrett (L S) Co

▶ MIRRORS, BATHROOM

Baehe (Semon) & Co
Belknap Glass Co
CAREY (PHILIP) MFG CO
Conant Brothers Co
Conroy-Frough Glass Co
COPCO STEEL & ENGINEERING CO
Dearborn Glass Co
Hagemann Cos Inc
**MIAMI CABINET DIV CAREY (PHILIP)
MFG CO**
National Mirror Works
Nurre Cos Inc
Parker (Charles) Co
PITTSBURGH PLATE GLASS CO
Safete Glass Co
Standard Steel Cabinet Co
Toledo Plate & Window Glass Co

▶ MIRRORS, DECORATIVE & HOUSEHOLD

Acme Specialty Mfg Co
Art Mirror & Glass Specialty Co
Baehe (Semon) & Co
Belknap Glass Co
Bennett Mfg Co
DINSWANGER & CO
Cadillac Glass Co
Century Mirror Corp
Conroy-Frough Glass Co
Dearborn Glass Co
Forman-Ford & Co
Fuller (W P) & Co
Hagemann Cos Inc
Honker Glass & Paint Mfg Co
LAWSON (F H) CO
**MIAMI CABINET DIV CAREY (PHILIP)
MFG CO**
Miroflex Products Co Inc
National Metal Products Co
National Mirror Works
Nurre Cos Inc
Parker (Charles) Co
PITTSBURGH PLATE GLASS CO
Safete Glass Co
STANDARD BUILDING PRODUCTS CO
Toledo Plate & Window Glass Co
Tyler & Hippach Glass Co
Warren Co

▶ MIRRORS, TRANSPARENT

LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO

▶ MITER BOXES

American Crayon Co
B & T METALS CO

Empire Level Mfg Co
MACKLANBURG-DUNCAN CO
McGrath—St Paul Co
Millers Falls Co
National Guard Products
Rockford Miter Box Co
Selek (Walter E) & Co
STANLEY TOOLS DIV STANLEY WORKS
Union Hardware Co
Youngstown Mfg Co

▶ MODEL HOUSES, SCALE

Architectural Model Materials
CURTIS COMPANIES INC
Hozze Planner Inc
Homes Center
Jayline Mfg Co Inc
Miniature Lumbercraft Co
Mitchell Models
National Plan Service

▶ MOPS, ROOFING APPLICA- TOR

Algoma Mfg Co
Cupples Co
Graham (John H) Co Inc

▶ MORTAR

American Fluorest Co Inc
Huron Portland Cement Co
Lasting Products Co
MEDUSA PORTLAND CEMENT CO
National Lime & Stone Co
Washington Brick & Lime Co
What Cheer Clay Products Co

▶ MORTAR BOXES

All-Steel Equipment Co Inc
American Ladder Co
American Sheet Metal Works
American Steel Works
BOSTWICK STEEL LATH CO
Donley Brothers
Essick Mfg Co
Goldblatt Tool Co
Heltzel Steel Form & Iron Co
Jackson Mfg Co
KEWANEE MFG CO
MULLER MACHINERY CO INC
PRICE FIREPLACE HEATER & TANK CORP
Richmond Engineering Co Inc
Thermafo Metal Products Inc

▶ MORTISERS, SASH PULLEY

Oliver Machinery Co

▶ MORTISERS, VIBRATING BIT

DE WALT INC
WHITNEY (BAXTER D) & SONS INC

▶ MOTORS, ELECTRIC

Ahart Gear & Machine Co
ALLIS-CHALMERS MFG CO
ATLAS PRESS CO
Beach Mfg Co
BOICE-CRAIG CO
Century Electric Co
**DELCO APPLIANCE DIV GENERAL MOTORS
CORP**
Dixiel Mfg Co Electrical Dir Ringer Mfg Co
EMERSON ELECTRIC MFG CO
Fairbanks-Morse & Co
FASCO INDUSTRIES INC
GENERAL ELECTRIC CO APPARATUS DEPT
Hamilton Beach Co Div Scovill Mfg Co
Kingston-Conley Dis Hoover Co
Leland Electric Co
MALL TOOL CO
Master Woodworker Mfg Co
Peerless Electric Co
Robbins & Myers Co
Russell Electric Co
Stens Electric Mfg Co
SUTTON (B A) CORP
Wagner Electric Corp
WESTINGHOUSE ELECTRIC CORP

▶ MOULDING, CONDUIT BASE

Ames Metal Moulding Co Inc
Knaus Brothers Mfg Co
NATIONAL ELECTRIC PRODUCTS CORP

▶ MOULDINGS, HARDBOARD

A & F Tileboard Co
Barley Mfg Co Inc
Gibbs Boardtile Corp
MARSH WALL PRODUCTS INC
Miracle Mfg Co
PRESTILE MFG CO
Roxdale Building Products Corp
TYLAC CO
Wallace Mfg Co

▶ MOULDINGS, METAL

AETNA STEEL PRODUCTS CORP
A & F Tileboard Co
Alabama Metal Lath Co
ALLMETAL WEATHERSTRIP CO
Alloy Trim Inc

Aluminum Co of America
American Brass Co
Ames Metal Moulding Co
**ARMSTRONG CORK CO BUILDING MA-
TERIAL DIV**

Barley Mfg Co Inc
BENDIX MFG CO
Blum (Julius) & Co Inc
BOSTWICK STEEL LATH CO
Brasco Mfg Co
Braun (J G) Co

B & T METALS CO
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Chicago Metallic Sash Co
Colonial Sales Corp
Decorite Inc

East Coast Tileboard Corp
Ford Metal Moulding Corp
Gibbs Boardtile Corp
Goldsmith Metal Lath Co
Greene Mfg Co
Harvey Machine Co Inc

Herron-Zimmers Moulding Co
INLAND STEEL PRODUCTS CO
KAWNEER CO
Kincaid Industries Inc
Knapp Brothers Mfg Co
Lustro Plastic Tile Mfg Co

MACKLANBURG-DUNCAN CO
MARSH WALL PRODUCTS INC
Metal Tile Products Inc
Metal Trims Inc
Miracle Mfg Co

National Aluminum Co
National Guard Products
NATIONAL GYPSUM CO
National Metal Products Co
PENN METAL CO INC

Penn Supply & Metal Corp
PITTSBURGH PLATE GLASS CO
Prestite-Farrington Inc
PRESTILE MFG CO

Protex Weatherstrip Mfg Co
Pyramid Metals Co
Pyramid Mouldings Inc
Pyramid Products Co
Revere Copper & Brass Inc

**REYNOLDS METALS CO BUILDING PROD-
UCTS DIV**
Roxdale Building Products Corp
ST PAUL CORRUGATING CO
Samson Products Co

Selek (Walter E) & Co
Serrick Corp John Lees Dir
STEELCRAFT MFG CO
Superior Industries Inc
Superior Wall Products Co

S & W Moulding Co
Trimedge Inc
TRUSCON STEEL CO
TYLAC CO
United Industries Inc

U S GYPSUM CO
U S PLYWOOD CORP
Wallace Mfg Co
Werner (R D) Co Inc

Wheeling Corrugating Co
Wollaefer Steel Corp
Wooster Products Inc
Youngstown Mfg Co Inc

▶ MOULDINGS, PLASTIC

BENDIX MFG CO
Blum (Julius) & Co Inc
B & T METALS CO
Chicago Wood & Plastic Products
Commonwealth Plastic Inc
Extruded Plastics Inc
Herron-Zimmers Moulding Co
Invernal Moulding Products Co
MACKLANBURG-DUNCAN CO
MARSH WALL PRODUCTS INC
National Aluminum Co
Parker (S) Hardware Mfg Corp
Prestite Engineering Co
PRESTILE MFG CO
Skyline Industries
Superior Plastics Div Commonwealth Plastics
Inc
S & W Moulding Co
Wallace Mfg Co
Werner (R D) Co Inc
Wooster Products Inc
Yankee Tile & Fibre Mfg Co
Youngstown Mfg Co Inc

▶ MOULDINGS, WOOD

Aetna Plywood & Veneer Co
Arkansas Oak Flooring Co
BENDIX MFG CO
Blum-Coleman Lumber Co Inc
Blum (Julius) Co Inc
BRADLEY LUMBER CO OF ARK
Bradley Miller & Co
BRUCE (E L) CO
Burke Millwork Co
Cameron (William) & Co Inc Ideal Div
CARR ADAMS & COLLIER CO
Chicago Wood & Plastic Products
Cole Mfg Co
Cook County Lumber Co
Cromar Co
CROSSETT LUMBER CO
CURTIS COMPANIES INC
Deagan Lumber Co
Farley & Loetscher Mfg Co
Fordyce-Crossett Lumber Co
Frost Lumber Industries Inc
General Panel Corp

GEORGIA-PACIFIC PLYWOOD CO

GREGG & SON
Heller (W C) & Co
Hines (Edward) Lumber Co
Huttig Mfg Co
Ideal Company

Keystone Frame & Mfg Co
Kinross Pine Mills Co
Lehwood Corp
LONG-BELL LUMBER CO

Marquart Millwork Co
MARSH WALL PRODUCTS INC
Meak Seattle Lumber Co
Midwest Joher Inc
Mitchell Moulding Co

Morgan Sash & Door Co
Nashotah Moulding & Mfg Co
Nickey Brothers Inc
Northern Sash & Door Co
Northwest Door & Plywood Co

Oregon-American Lumber Corp
Oshkosh Wood Products Corp
Ostin (David) Moulding Corp
PACIFIC LUMBER CO
Phillips-Rhyme Lumber Co

Pickering Lumber Co
Roush & Musser Co
Rock Island Millwork Co
Segelke & Kohlhaus Co
Seneca Lumber & Millwork Co

Shadwood
Silverst Co
Smith (Ralph L) Lumber Co
Southern Lumber Co
Spokane Sash & Door Co

Stiles (H A) Co
Tibbitts Flooring Co
U S Meugel Plywoods
Washington Mfg Co
Western Pine Mfg Co

WEYERHAEUSER SALES CO
White Pine Sash Co
Willamette Valley Lumber Co
Williams-Brownell Inc
Wilson (A K) Lumber Co

Woodward Lumber Co

▶ MOULDINGS, WOOD VENEER-ON-METAL

Keller Products Inc
U S PLYWOOD CORP

▶ NAIL PULLERS

Belden Machine Co
Bridgeport Hardware Mfg Corp
Crescent Tool Co
Fresco (C) & Co Inc
K-D Mfg Co
MARKWELL MFG CO
Union Hardware Co
Woodings-Verona Tool Works

▶ NAIL SETS

American Swiss File & Tool Co
Bridgeport Hardware Mfg Corp
Brown & Sharpe Mfg Co
Damascus Steel Products Corp

Drew (C) & Co Inc
Hood Brothers
Mayhew Steel Products Inc
McChesnon-Huff Tool Co
Millers Falls Co

R-Line Tool Co
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co
Syracuse Twist Drill Co
Tuck Mfg Co
Union Tool Co

▶ NAIL & BOLT ANCHORS

Derfex Inc
MOORE (GOODLOE E) CO

▶ NAILERS & TACKERS AUTO- MATIC

HANSEN (A L) MFG CO

▶ NAILING MACHINES

Dolg (W S) Inc
Kirmmes (L F) & Sons Inc
HOLT MFG CO
INDEPENDENT NAIL & PACKING CO
Spatulails Inc

▶ NAILS, ALUMINUM

HASSALL (JOHN) INC
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
Potts-Farrington Co
**REYNOLDS METALS CO BUILDING PROD-
UCTS DIV**

▶ NAILS, COMMON

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
Angell Nail & Chaplet Co
Atlas Tack Corp
Bambriek (Richard J)
**BERGER MFG CO DIV REPUBLIC STEEL
CORP**
Bethlehem Steel Co
BOSTWICK STEEL LATH CO
CHASE BRASS & COPPER CO
Columbia Steel Co
Continental Steel Corp
COPPERWELD STEEL CO
Crescent Brass & Pin Co
Eastern Nail Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

ELASTIC STOP NUT CORP OF AMERICA
HASSALL (JOHN) INC
 Henniker Machine Co
 Illinois Nail Co
INDEPENDENT NAIL & PACKING CO
JONES & LAUGHLIN STEEL CORP
KEYSTONE STEEL & WIRE CO
 Maze (W H) Co
 Mid-States Steel & Wire Co
 New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
REYNOLDS METALS CO BLDG PRODUCTS SECTION
TENNESSEE COAL IRON & RAILROAD CO
 Valentine Equipment Co
 Wash Company Inc
 Wheeling Corrugating Co
 Wickwire Brothers Inc
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP
 Wilson Steel & Wire Co

▶ NAILS, COPPER

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
 Angell Nail & Chaplet Co
 Atlas Tack Corp
CHASE BRASS & COPPER CO
 Columbia Steel Corp
 Continental Steel Corp
 Copperweld Steel Co
 Dickson Weatherproof Nail Co
HASSALL (JOHN) INC
INDEPENDENT NAIL & PACKING CO
 Steel & Wire Products Co
TENNESSEE COAL IRON & RAILROAD CO
TURNER & SEYMOUR MFG CO

▶ NAILS, CUT

Alan Wood Steel Co
CHASE BRASS & COPPER CO
 Continental Steel Corp
 Eastern Nail Co
 Maze (W H) Co
TENNESSEE COAL IRON & RAILROAD CO
 Tremont Nail Co
 Wheeling Corrugating Co
 Wheeling Steel Corp
 Wickwire Brothers Inc

▶ NAILS, FLOORING

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
 Bethlehem Steel Co
 Continental Steel Corp
 Copperweld Steel Co
 Cronat Co
 Dickson Weatherproof Nail Co
INDEPENDENT NAIL & PACKING CO
KEYSTONE STEEL & WIRE CO
 Maze (W H) Co
 Mid-States Steel & Wire Co
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
 Tremont Nail Co
 Valentine Equipment Co
 Wheeling Corrugating Co
 Wickwire Brothers Inc

▶ NAILS, LATH

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
 Bethlehem Steel Co
 Continental Steel Corp
 Copperweld Steel Co
 Goldsmith Metal Lath Co
KEYSTONE STEEL & WIRE CO
 Mid-States Steel & Wire Co
 Northwestern Steel & Wire Co
PENN METAL CO INC
TENNESSEE COAL IRON & RAILROAD CO
 Valentine Equipment Co
 Wickwire Bros Inc

▶ NAILS, LEAD HEAD

AMERICAN STEEL & WIRE CO
 Bethlehem Steel Co
 Continental Steel Corp
DENISTON CO
 Dickson Weatherproof Nail Co
 Independent Nail & Packing Co
INLAND STEEL PRODUCTS CO
KEYSTONE STEEL & WIRE CO
 Maze (W H) Co
 Mid-States Steel & Wire Co
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
 Wheeling Corrugating Co

▶ NAILS, MASONRY

AMERICAN STEEL & WIRE CO
 Badger Corrugating Co
COLORADO FUEL & IRON CORP
 Continental Steel Corp
 Dickson Weatherproof Nail Co
 Hillwood Mfg Co
INDEPENDENT NAIL & PACKING CO
MOORE (GOODLOE E) CO
 Sheffield Steel Corp
 Star Expansion Products Co
TENNESSEE COAL IRON & RAILROAD CO
 Tremont Nail Co

▶ NAILS, ROOFING

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
 Atlas Tack Corp
 Bambrick (Richard J)
 Bethlehem Steel Co
CHASE BRASS & COPPER CO
COLORADO FUEL & IRON CORP
 Columbia Steel Co
 Continental Steel Corp
 Copperweld Steel Co
 Cupples Co
DENISTON CO
 Dickson Weatherproof Nail Co
 Edwards Mfg Co
 E G Building Fasteners Corp
HASSALL (JOHN) INC
INDEPENDENT NAIL & PACKING CO
JONES & LAUGHLIN STEEL CORP
KEYSTONE STEEL & WIRE CO
 Maze (W H) Co
 Mid-States Steel & Wire Co
 New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
 Valentine Equipment Co
 Wheeling Corrugating Co
 Wickwire Brothers Inc
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP
 Wilson Steel & Wire Co

▶ NAILS, SCREW TYPE

Columbia Steel Co
 Continental Steel Corp
 Cupples Co
DENISTON CO
 Dickson Weatherproof Nail Co
 E G Building Fasteners Corp
HASSALL (JOHN) INC
 Hillwood Mfg Co
INDEPENDENT NAIL & PACKING CO
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
REYNOLDS METALS CO BUILDING PRODUCTS DIV
 Stronghold Screw Products Inc
TENNESSEE COAL IRON & RAILROAD CO

▶ NAILS, SELFLOCKING

E G Building Fasteners Corp
 Elastic Stop Nut Corp of America

▶ NAILS, SHINGLE

Alan Wood Steel Co
AMERICAN STEEL & WIRE CO
 Atlas Tack Corp
 Bethlehem Steel Co
CHASE BRASS & COPPER CO
COLORADO FUEL & IRON CORP
 Columbia Steel Co
 Continental Steel Corp
 Dickson Weatherproof Nail Co
 E G Building Fasteners Corp
 Elastic Stop Nut Corp of America
INDEPENDENT NAIL & PACKING CO
JONES & LAUGHLIN STEEL CORP
KEYSTONE STEEL & WIRE CO
 Maze (W H) Co
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
PITTSBURGH STEEL PRODUCTS CO
REYNOLDS METALS CO BUILDING PRODUCTS DIV
 Sheffield Steel Corp
TENNESSEE COAL IRON & RAILROAD CO
 Wickwire Bros Inc
 Wilson Steel & Wire Co

▶ NAILS, WALLBOARD

AMERICAN STEEL & WIRE CO
 Angell Nail & Chaplet Co
 Columbia Steel Co
HASSALL (JOHN) INC
 Maze (W H) Co
 Northwestern Steel & Wire Co
REPUBLIC STEEL CORP
 Valentine Equipment Co
 Wickwire Brothers Inc

▶ NAME PLATES

CORBIN (P & F) DIV AMERICAN HARDWARE CORP
LOCKWOOD HARDWARE MFG CO
 Turner Brass Works

▶ NETTING, WIRE

AMERICAN STEEL & WIRE CO
COLORADO FUEL & IRON CORP
 Columbia Steel Co
 Continental Steel Corp
CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
 Gilbert & Bennett Mfg Co
 Indiana Steel & Wire Co
KEYSTONE STEEL & WIRE CO
 Mid-States Steel & Wire Co
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co

TENNESSEE COAL IRON & RAILROAD CO
 Wickwire Brothers Inc
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP

▶ NIPPERS

Champion-De-Arment Tool Co
 Damascus Steel Products Corp
 Low Mfg Co
 M & M Wire Clamp Co
 Peck Stow & Wilcox Co
RED DEVIL TOOLS
SARGENT & CO
 Starr Brothers Bell Co
 Vaughan & Bushnell Mfg Co

▶ NOSINGS, METAL

ALLMETAL WEATHERSTRIP CO
 American Mason Safety Tread Co
 Ames Metal Moulding Co
ARMSTRONG CORK CO
 Blum (Julius) Co Inc
 Brasco Mfg Co
B & T METALS CO
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
 Decortie Inc
 Ford Metal Moulding Corp
 Kinkead Industries Inc
MACKLANBURG-DUNCAN CO
MARSH HALL PRODUCTS INC
 Marx Trims
MOORE (GOODLOE E) CO
 National Aluminum Co
 National Guard Products
 Penn Supply & Metal Corp
 Potts-Farrington Co
 Protex Weatherstrip Mfg Co
 Pyramid Mouldings Inc
 Safe Tread Co
 S & W Moulding Co
 Trimedge
 Werner (R D) Co Inc
 Wheeling Corrugating Co
 Wollager Steel Corp
 Wooster Products Inc
 Youngstown Mfg Co Inc

▶ NUMBERS & LETTERS, LUMINOUS

Ellwood Co
 Greider (K H) Mfg Co
 Lumolite Corp
MACKLANBURG-DUNCAN CO
 Nu View House Number

▶ NUMBERS & LETTERS, REFLECTING

Auto Sign Display
 Greider (K H) Mfg Co
MACKLANBURG-DUNCAN CO
 Reflecto Letters Co
 Slaymaker Lock Co
 Thomas & Associates Inc
 U S Lite-Ray Co

▶ NUMBERS & LETTERS, TILE

Cambridge Tile Mfg Co

▶ NUMBERS & LETTERS, WOOD & METAL

Ajax Hardware Mfg Corp
 Champion Hardware Co
 Clipes Corp
 Clinton Lock Co
CORBIN (P & F) DIV AMERICAN HARDWARE CORP
 Ereo Mfg Co
 Fisale Equipment Co
 Gits Molding Corp
 Harris Inc
 Heller (W C) & Co
 Ideal Brass Works Inc
 Ingram-Richardson Mfg Co
 Inves (H B) Company
MACKLANBURG-DUNCAN CO
 Matthews (James H) & Co
 McKinnery Mfg Co
NATIONAL BRASS CO
 Nelson-Harkins Industries
 Norwalk Lock Co Div Segal Lock & Hardware Co
NOTUNE INC
 Penn Hardware Company
 Premier Products Div Chisolm-Ryder Co Inc
RUSSELL & ERWIN DIV AMERICAN HARDWARE CORP
 Rustle Furniture Co Inc
 Safe Padlocks & Hardware Co
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
 Skillman Hardware Co
 Slaymaker Lock Co
 Spangler Brothers Inc
 Standard Bronze Co
 Wellman Products Co

▶ OFFICE MACHINES & EQUIPMENT

Addressograph-Multigraph Corp

Ajax Time Stamp Co
 Autographic Register Co
BERGEL MFG CO DIV REPUBLIC STEEL CORP

Burgess Co Inc
 Burroughs Adding Machine Co
 Calculagraph Co
 Clary Multiplier Corp
 Davidson Mfg Corp
 Diek (A B) Co
 Egly Register Co
 Elliott Addressing Machine Co
 Felt & Tarrant Mfg Co
 Ferris Business Equipment Inc
 Friden Calculating Machine Co
 Hamilton Autographic Register Co
 Heyer Corp
 International Business Machines Corp
 Kirk Plastics Co
 Lightning Adding Machine Co
 Marchant Calculating Machine Co
 Master Addresser Co
 McMassey Register Co
 Mellick Systems Inc
 Monroe Calculating Machine Co
 Moore Business Forms Inc
 Mosler Safe Co
 National Cash Register Co
 Northwest Metal Products Co
 Olmer Register Co
 Patent Novity Co Inc
REMINGTON RAND INC SYSTEMS DIV
 Rolobetter Corp
SMITH (L C) & CORONA TYPEWRITERS INC
 Speed-O-Print Corp
 Standard Register Co
SWIFT BUSINESS MACHINES CORP
 Thompson (O E) & Sons
 Todd Co Inc
 Tucker-Dorsey Mfg Corp
 Twentieth Century Products Inc
 UARKO Inc
 Underwood Corp
 Victor Adding Machine Co
 Waddell Co Inc

▶ OIL, LEAD MIXING

Breinig Brothers Inc
 Eagle Picher Co
 Gildden Co
 National Lead Co
 Pabco Products Inc
PITTSBURGH PLATE GLASS CO

▶ OIL, LINSEED

Archer-Daniels-Midland Co
 Bisbee Linseed Co
 Chi-Namel Paint & Varnish Co
 De Mott & Bongelert
 Fuller (W F) & Co
 Gillespie Varnish Co
 Gildden Co
 Gordon (George C) Chemical Co
 Harrison Paint & Varnish Co
 Interstate Oil Co
 Kellogg (Spencer) & Sons Corp
LINSEED OIL PRODUCTS CO
 Minnesota Linseed Oil Paint Co
 Mohr Paint Mfg Co
 National Lead Co
PITTSBURGH PLATE GLASS CO
SHERWIN-WILLIAMS CO
 Spencer-Kellogg & Sons
 Technical Oil Div South Tex Cotton Oil Co

▶ OUTLETS, ELECTRIC

Arrow-Hart & Hegeman Electric Co
 Auth Electrical Specialty Co
 Bell Electric Co
 Benjamin Electric Mfg Co
BOSTWICK STEEL LATH CO
 Bryant Electric Co
 Cutler-Hammer Inc
 Donley Brothers
 Economy Fuse & Mfg Co
 Edwards Co Inc
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
 Gits Molding Corp
 Hubbell (Harvey) Inc
 Merwin Mfg Co
 Pass & Seymour
 Standard Metalcraft Corp
 Square D Co
 Sommer Mirror Co
 Weber Electric Co
 Wheeling Corrugating Co

▶ OVENS, OUTDOOR & DUTCH

Donley Brothers
 Glasecock Stove & Mfg Co
 Hancock Iron Works
 Kraus (Walter S) Co
MAJESTIC CO
 Mexico Refractories Co
 Outdoor Oven Fireplace Co
 Poisen & Nardon Inc
PRICE FIREPLACE HEATER & TANK CORP
 Western Foundry Co

▶ PAINT APPLICATORS, ROLLER, AIR PRESSURE

Brown (W R) Corp
 Carlson (A B) & Co
 Central States Wallmaster Inc
RED DEVIL TOOLS
 Rubbert Co

Manufacturers' Names and Addresses Start on Page D-61
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▶ PAINT SPRAY GUNS

Rishka Mfg Co
Black Mfg Co
Burgess Vliorcrafters Inc
Brown (W B) Corp
Brunner Mfg Co
Denning Co
DeVillbiss Co
Devoe & Reynolds Inc
Electric Spray Co
Empire Varnish Co
Hudson (H D) Mfg Co
Lowell Mfg Co
MacLeod Co
Metalizing Engineering Co Inc
Pasche Air Brush Co
PITTSBURGH PLATE GLASS CO
Portable Electric Tools Inc
Sellen Corp
Stewart-Warner Corp
U S Air Compressor Co

▶ PAINT AND VARNISH REMOVERS

Acme White Lead & Color Works
American Marietta Co
Americap Varnish Co
Bengal Co
Berry Brothers Inc
Boston Varnish Co
Bayer Chemical Laboratory Co
Boyle-Midway Inc
Breinig Brothers Inc
Briggs-Maroney Co Inc
Builders Products
CABOT (SAMUEL) INC
Chemical Supply Co
Chicago Bronze & Color Works
Chi-Namel Paint & Varnish Co
Christy Co Inc
Consumers Glue Co
Cook Paint & Varnish Co
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co Inc
Elliott Paint & Varnish Works
Felton Sibley & Co Inc
Fuller (W P) & Co
Glidden Company
Harrison Paint & Varnish Co
Haynes Products Co
Industrial Chemical Development Corp
Keystone Varnish Corp
Lowebco
Lowe Brothers Co
Martin-Senour Co
Masury (John W) & Son Inc
Minnesota Paints Inc
Murphy Finishes Corp
Oakite Products Inc
O'Brien Corp
Patterson-Sargent Co
PITTSBURGH PLATE GLASS CO
Pratt & Lambert Inc
Savaran Co
Sehalk Chemical Co
Seidlitz Paint & Varnish Co
Sheffield Bronze Paint Corp
SHERWIN-WILLIAMS CO
Stanley Chemical Co
Steelco Mfg Co
Tamm Industries Inc
Truscon Laboratories Inc
Twentieth Century Paint & Varnish Corp
Valentine & Co Inc
Vita-Var Corp
Wadsworth-Howland & Co
Wilson Imperial Co
Woodfinishing Products Co

▶ PAINTS, ACIDPROOF

Abesto Mfg Corp
Boston Varnish Co
Chicago Bronze & Color Works
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co
Elliott Paint & Varnish Co
Glidden Co
Horn (A C) Co Inc
Lithogen Corp
Lowebco Inc
Lowe Brothers Co
MOORE (GOODLOE) CO
Nolen Products Corp
O'Brien Corp
Pabco Products Inc
Patterson-Sargent Co
RUBEROID CO
Sapolin Paints Co Inc
Seaboard Plastics Corp
SHERWIN-WILLIAMS CO
Sonneborn (L) Sons Inc
Sisco Inc
Spray-O-Bond Co
Steelco Mfg Co
Sullivan Co
Truscon Laboratories Div Devoe & Reynolds
Inc
Valentine & Co Inc
Vita-Var Corp
Wilbur & Williams Co

▶ PAINTS, ALUMINUM BRONZE & GOLD

Abesto Mfg Corp
Aluminum Co of America
Aluminum Industries Inc
Aro Co
Arresto Paint Co Inc
Boston Varnish Co
Chicago Paints Inc
Cook Paint & Varnish Co

Crescent Bronze Powder Co
Devoe & Reynolds Inc
Eagle-Picher Co
Elliott Paint & Varnish Co
FLINTKOTE CO
Glidden Co
Hoboken White Lead & Color Works Inc
Horn (A C) Co Inc
Illinois Bronze Powder Co Inc
Lockery Co
Lowe Brothers Co
Martin-Senour Co
Masury (John W) & Son
PITTSBURGH PLATE GLASS CO
Seaboard Plastics Corp
Seidlitz Paint & Varnish Co
Sheffield Bronze Paint Corp
SHERWIN-WILLIAMS CO
Sisco Inc
Steelco Mfg Co
Truscon Laboratories Div Devoe & Reynolds
Inc
Wilbur & Williams Co

▶ PAINTS, ASPHALT

Abesto Mfg Corp
Akron Paint & Varnish Co
American Asphalt Paint Co
AMERICAN ASPHALT ROOF CORP
American-Marietta Co
American Varnish Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV
BARRETT DIV ALLIED CHEMICAL & DYE CO
Boston Varnish Co
Breinig Brothers Inc
CALBAR PAINT & VARNISH CO
CAREY (PHILIP) MFG CO
Ceresit Waterproofing Corp
Cheesman-Elliott Inc
Chicago Bronze & Color Works
Dad & Lad Co
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co
Eagle-Picher Co
Elliott Paint & Varnish Co
Evercrete Corp
FLINTKOTE CO
Ford Roofing Products Co
Forman-Ford & Co
Foy Paint Co Inc
Gibson-Homans Co
Glidden Co
Harbil Mfg Co Inc
Horn (A C) Co Inc
Illinois Bronze Powder Co
JOHNS-MANVILLE CORP
Lambon Co
Murphy Finishes Corp
NATIONAL GYPSUM CO
O'Brien Corp
Pabco Products Inc
PECORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
Quigley Co Inc
Rogers Paint Products Inc
RUBEROID CO
Seaboard Plastics Corp
Seidlitz Paint & Varnish Co
Sicea Soya Paint Co Inc
SHERWIN-WILLIAMS CO
Spray-O-Bond Co
Steelco Mfg Co
TEXAS CO
Truscon Laboratories Div Devoe & Reynolds
Co
Twentieth Century Paint & Varnish Corp
United Gilsomite Laboratories
U S Gutta Percha Paint Co
Verflex Sales Co Inc
Vita-Var Corp
Wilbur & Williams Co

▶ PAINTS, AWNING

Aridye Corp
Astrup Co
CUPRINOL DIV DARWORTH INC
Devoe & Reynolds Inc
King (E & F) Co Inc
Pabco Products Inc
PITTSBURGH PLATE GLASS CO
Textile Colors Div Interchemical Corp

▶ PAINTS, CEMENT

AMERICAN STA-DRI CO
Armer Laboratories Inc
Breinig Brothers
Pratt & Lambert Inc
Rex Products
Spray-O-Bond Co
UNIVERSAL ATLAS CEMENT CO

▶ PAINTS, COLDWATER & CASEIN

Abesto Mfg Corp
Acme White Lead & Color Works
Alabastine Paint Products Div Chicago Bronze
& Color Works
Burdal (A) Co
CABOT (SAMUEL) INC
Chi-Namel Paint & Varnish Co
Chicago Bronze & Color Works
Cook Paint & Varnish Co
Devoe & Reynolds Inc

Du Pont (E I) de Nemours & Co Inc
Felton Sibley & Co Inc
Foy Paint Co Inc
General Paint Corp
Glidden Co
Harbil Mfg Co Inc
Horn (A C) Co Inc
MEDUSA PORTLAND CEMENT CO
Minnesota Paints Inc
Muralo Co Inc
National Chemical & Mfg Co
NATIONAL GYPSUM CO
Parker (Ira) & Sons Co
Phelan-Faust Paint Mfg Co
PITTSBURGH PLATE GLASS CO
Reardon Co
Rogers Paint Products Inc
Sargent-Genke Co
Seidlitz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Standard Varnish Works
Tamm Industries Inc
Toch Brothers Inc
U S GYPSUM CO
Vita-Var Corp
Wesco Waterpaints Inc
Wilbur & Williams Co
Woodville Line Co

▶ PAINTS, CONCRETE, BRICK, STUCCO

Abesto Mfg Corp
Acme White Lead & Color Works
Akron Paint & Varnish Co
Alabastine Paint Products Div Chicago Bronze
& Color Works
American Fluoresc Co Inc
American-Marietta Co
AMERICAN STA-DRI CO
American Varnish Co
Armer Laboratories Inc
Arresto Paint Co Inc
Beautex Plaster Co
Blue Ridge Talk Co Inc
Boston Varnish Co
Briggs-Maroney Co Inc
Builders Products
Burdal (A) Co
CABOT (SAMUEL) INC
CALBAR PAINT & VARNISH CO
CARTER-WATERS CORP
Celadri Corp
Cemix Co
Ceresal Chemical Corp
Ceresit Waterproofing Corp
Cheesman-Elliott Co Inc
Chicago Bronze & Color Works
Coddington (E D) Mfg Co
Colorcrete Industries Inc
Coprox Inc
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co Inc
Elliott Paint & Varnish Co
Empire Varnish Co
Evercrete Corp
Felton Sibley & Co Inc
Flexrock Co
Fox (M Ewing) Co Inc
Foy Paint Co Inc
General Paint Corp
Glidden Co
Harbil Mfg Co Inc
Hoboken White Lead & Color Works Inc
Horn (A C) Co Inc
Johnston (R F) Paint Co
KAY-TITE CO
KEYSTONE CORP
Keystone Paint & Varnish Corp
Lasting Products Co
Lithogen Corp
Lowebco Inc
Lowe Brothers
Masury (John W) & Son Inc
MEDUSA PORTLAND CEMENT CO
Minnesota Paints Inc
Moore (Benjamin) & Co
MOORE (GOODLOE) CO
Muralo Co Inc
Murphy Finishes Corp
NATIONAL GYPSUM CO
O'Brien Corp
Patterson-Sargent Co
PECORA PAINT CO INC
Peerless Cement Corp
Penn Crete Products Co
Phelan-Faust Paint Mfg Co
PITTSBURGH PLATE GLASS CO
Plasti-Kote Inc
Preservative Paints Co
Prima Products Inc
Reardon Co
Rebond Products Co
Robloff & Co
Seidlitz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Smooth-On Mfg Co
Sonneborn (L) Sons Inc
Spray-O-Bond Co
STANDARD DRY WALL PRODUCTS
Steelco Mfg Co
Stonhard Co
Sullivan Co
Surface Protection Co
Tamm Industries Inc
Trenco Mfg Co
TRINITY PORTLAND CEMENT DIV GENERAL PORTLAND CEMENT CO
Truscon Laboratories Div Devoe & Reynolds
Inc
Twentieth Century Paint & Varnish Corp
U S Gutta Percha Paint Co

U S GYPSUM CO
Vita-Var Corp
Vorlat Co
Waterlox Div Emptre Varnish Co
Wesco Waterpaints
Wilbur & Williams Co
Woodville Line Co
Yurda & Chemical Co
X-Pando Corp

▶ PAINTS, CREOSOTE

Devoe & Reynolds Inc

▶ PAINTS, DRY KILN

American Varnish Co
Black Cat Corp
Breinig Brothers Inc
Devoe & Reynolds Inc
Dewatex Mfg Corp
Harbil Mfg Co Inc
Horn (A C) Co Inc
Mobile Paint Mfg Co
Moore Dry Kiln Co
Murphy Finishes Corp
Parker (Ira) & Sons Co
PITTSBURGH PLATE GLASS CO
Rockford Paint Mfg Co
U S Gutta Percha Paint Co
Wilbur & Williams Co

▶ PAINTS, FUNGUS REPELLING

Abesto Mfg Corp
CUPRINOL DIV DARWORTH INC
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co Inc
Elliott Paint & Varnish Co
Glidden Co
Horn (A C) Co Inc
Lowe Brothers Co
Meta-Kote Corp
O'Brien Corp
Patterson-Sargent Co
PITTSBURGH PLATE GLASS CO
SHERWIN-WILLIAMS CO
Truscon Laboratories Div Devoe & Reynolds
Co
Vita-Var Corp
Wilbur & Williams Co
Wood-Treating Chemicals Co
Wurdack Chemical Co

▶ PAINTS, INSECT KILLING

Superior Paint & Varnish Works

▶ PAINTS, LEAD

Acme White Lead & Color Works
Akron Paint & Varnish Co
American Marietta Co
Americap Varnish Co
Baker Paint & Varnish Co
Breinig Brothers Inc
Briggs-Maroney Co Inc
Cheesman-Elliott Co Inc
Dewatex Mfg Corp
Fuller (W P) & Co
Gillespie Varnish Co
Harbil Mfg Co Inc
Mobile Paint Mfg Co
Murphy Finishes Corp
National Lead Co
O'Brien Corp
Parker (Ira) & Sons Co
Pratt & Lambert Inc
Preservative Paints Co
Rockford Paint Mfg Co
Sellers Paint & Varnish Co
Sonneborn (L) & Sons Inc
Twentieth Century Paint & Varnish Corp

▶ PAINTS, LEAD IN OIL

Acme White Lead & Color Works
Arresto Paint Co Inc
Boston Varnish Co
Devoe & Reynolds Inc
Eagle-Picher Co
Elliott Paint & Varnish Co
Glidden Co
Hoboken White Lead & Color Works
Horn (A C) Co Inc
Lowe Brothers Co
National Lead Co
Pabco Products Inc
PITTSBURGH PLATE GLASS CO
Seidlitz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Valentine & Co Inc
Vita-Var Corp

▶ PAINTS, MARINE

Acme White Lead & Color Works
Akron Paint & Varnish Co
Americap Varnish Co
Boston Varnish Co
Breinig Brothers Inc
Cheesman-Elliott Co Inc
Devoe & Reynolds Inc
Du Pont (E I) de Nemours Co Inc
Eagle-Picher Co
Felton Sibley & Co Inc
Forman-Ford & Co
General Paint Corp
Gillespie Varnish Co
Glidden Co
Harbil Mfg Co Inc
Horn (A C) Co Inc
Lowe Brothers Co
Lucas (John) & Co Inc
Minnesota Paints Inc

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Mobile Paint Mfg Co
Murphy Finishes Corp
O'Brien Corp
Pabco Products Inc
Parker (Ira) & Sons Co
Patterson-Sargent Co
PITTSBURGH PLATE GLASS CO
Plant-Kote Inc
Frait & Lambert Inc
Sargent-Gerke Co
Seiditz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Steelco Mfg Co
Tremco Mfg Co
Valentine & Co Inc
Vita-Var Corp
Wilbur & Williams Co

▶ PAINTS, METALLIC

Akron Paint & Varnish Co
Alabastine Paint Products Div Chicago Bronze & Color Works
Aluminum Industries Inc
American Marietta Co
American Varnish Co
Breinig Brothers Inc
CALBAR PAINT & VARNISH CO
Chi-Namel Paint & Varnish Co
Chicago Bronze & Color Works
Commonwealth Varnish Co
Deros & Reynolds Inc
Du Pont (E I) de Nemours Co Inc
Eagle-Picher Co
Elliott Paint & Varnish Co
Empire Varnish Co
Felton Sibley & Co Inc
Forman-Ford & Co
General Paint Corp
Gillespie Varnish Co
Glidden Co
Harbil Mfg Co
Koppers Co Inc
Lowe Brothers Co
Minnesota Paints Inc
Mobile Paint Mfg Co
Murphy Finishes Corp
Pabco Products Inc
Parker (Ira) & Sons Co
Patterson-Sargent Co
Phelan-Faust Paint Mfg Co
PITTSBURGH PLATE GLASS CO
Plant-Kote Inc
Frait & Lambert Inc
Reilly Tar & Chemical Corp
St Louis Surfer & Paint Co
Sargent-Gerke Co
Sheffield Bronze Paint Corp
SHERWIN-WILLIAMS CO
Sicca Soya Paint Co Inc
Siedlitz Paint & Varnish Co
Sonneborn (L) & Sons Inc
Standard Industrial Products Inc
Steelco Mfg Co
Twentieth Century Paint & Varnish Corp
United Gilmont Laboratories
U S Gutta Percha Paint Co
Valentine & Co Inc
Vita-Var Corp

▶ PAINTS, OIL

Abesto Mfg Corp
Acme Quality Paints
Acme White Lead & Color Works
Akron Paint & Varnish Co
Alabastine Paint Products Div Chicago Bronze & Color Works
American-Marietta Co
American Varnish Co
Aro Co
Armstrong Paint & Varnish Works
Arnesto Paint Co Inc
Berry Brothers
Boston Varnish Co
Bradley & Vreeman Co
Breinig Brothers Inc
Burdal (A) Co
CABOT (SAMUEL) INC
Central Paint & Varnish Works
Chicago Paints Inc
Chi-Namel Paint & Varnish Co
Cook Paint & Varnish Co
Devoe & Reynolds Inc
Dolphin Paint & Varnish Co
Du Pont (E I) de Nemours & Co Inc
Eagle-Picher Co
Elliott Paint & Varnish Co
Enterprise Paint Mfg Co
Felton Sibley & Co
Forman-Ford & Co
Foy Paint Co
Fuller (W F) & Co Inc
General Paint Corp
Gillespie Varnish Co
Glidden Co
Grand Rapids Varnish Corp
Hanna Paint Mfg Co
Harbil Mfg Co Inc
Harris (J E) Co
Harrison Paint & Varnish Co
Heath & Milligan Mfg Co Div Glidden Co
Hoboken White Lead & Color Works Inc
Horn (A C) Co Inc
Indianapolis Paint & Color Co
Jewel Paint & Varnish Co
Johnston (R F) Paint Co
Keystone Varnish Co
King (E & F) & Co Inc
Kurfses (J F) Paint Co
LINSEED OIL PRODUCTS CO
Lowe Brothers Co
Lucas (John) & Co
Marietta Paint & Color Co
Martin-Senour Co
Masny (John W) & Son Inc

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McLooney Varnish Co
McMurtry Mfg Co
Merkin (M J) Paint Co Inc
Minnesota Linseed Oil Paint Co
Mobile Paint Mfg Co
Moore (Benjamin) & Co
Muralo Co Inc
Murphy Finishes Corp
National Lead Co
NATIONAL MFG CO
Nu-Enamel Corp
O'Brien Corp
Pabco Products Inc
Parker (Ira) & Sons
Patterson-Sargent Co
Peebles-Gaulbert Paint & Varnish Co Inc
PEGORA PAINT CO INC
PERMA PRODUCTS CO
Phelan-Faust Paint Mfg Co
PITTSBURGH PLATE GLASS CO
Plant-Kote Co
Pontiac Varnish Co
Frait & Lambert Inc
St Louis Surfer & Paint Co
Sapolin Paints Inc
Sargent-Gerke Co
Seaboard Plastics Corp
Seiditz Paint & Varnish Co
Sewall Paint & Varnish Co
SHERWIN-WILLIAMS CO
Sicca Soya Sales Co
Sonneborn (L) & Sons Inc
Standard Industrial Products Inc
Standard Varnish Works
Steekote Mfg Co
STERLING PAINT & VARNISH CO
Sullivan Co
Toch Brothers Inc
Tremco Mfg Co
Trucon Laboratories Div Devoe & Reynolds Inc
Twentieth Century Paint & Varnish Co
U S Gutta Percha Paint Co
Valentine & Co Inc
Vita-Var Corp
Wadsworth Howland & Co
Wilbur & Williams Co
Wilhelm (A) Co

▶ PAINTS PLASTER

Alton Laboratories
Ero-Ca-De Inc
Enterprise Paint Mfg Co
Glastic Corp
Lowebe Co
NATIONAL GYPSUM CO
Reardon Co
Sicca Soya Paint Co Inc
Tamm Industries Inc
Wesco Waterpaints

▶ PAINTS, PLASTIC

Corrosite Corp
GENERAL ELECTRIC CO CHEMICAL DEPT
Plant-Kote Inc
U S GYPSUM CO

▶ PAINTS, RUBBER BASE

Trucon Laboratories Div Devoe & Reynolds Inc

▶ PAINTS, SYNTHETIC RESIN

Arnesto Paint Co Inc
Boston Varnish Co
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co Inc
Elliott Paint & Varnish Co
Glidden Co
Horn (A C) Co Inc
Illinois Bronze Powder Co
Keystone Paint & Varnish Corp
Lowe Brothers Co
Martin-Senour Co
MIRACLE ADHESIVE CORP
NATIONAL GYPSUM CO
O'Brien Corp
Pabco Products Inc
PITTSBURGH PLATE GLASS CO
Reardon Co
SHERWIN-WILLIAMS CO
U S GYPSUM CO
Valentine & Co Inc
Vertex Sales Co Inc
Vita-Var Corp
Wesco Waterpaints Inc
Wilbur & Williams Co

▶ PAINTS, TEXTURE

Lowebe Co
Reardon Co
Tamm Industries Inc
U S GYPSUM CO
Wesco Waterpaints Inc

▶ PANELWORK, HARDWOOD

American Plywood Corp
BRADLEY LUMBER CO OF ARK
CORROR LUMBER & LAND CO
CURTIS COS INC
FAIR (D L) LUMBER CO
Farley & Loetscher Mfg Co
Fordyce-Crossett Lumber Co
Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO

RODDIS PLYWOOD CORP
Twin City Hardwood Lumber Co

▶ PANELWORK, SOFTWOOD

Acna Plywood & Veneer Co
BRADLEY LUMBER CO OF ARK
CROSSETT LUMBER CO
CURTIS COS INC
FAIR (D L) LUMBER CO
Farley & Loetscher Mfg Co
Fordyce-Crossett Lumber Co
Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
M & M Woodworking Co
Sonneborn Lumber Co
WEYERHAEUSER SALES CO

▶ PAPER, ASBESTOS

Acme Asbestos Covering & Flooring Co
CAREY (PHILIP) MFG CO
Curtis Asbestos Co
Ehret Magnesia Mfg Co Inc
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Protective Papers Inc
RUBEROID CO
Salk Mountain Co
Standard Asbestos Mfg Co
Thilmany Pulp & Paper Co

▶ PAPER, BUILDING

AMERICAN ASPHALT ROOF CORP
BARRETT DIV ALLIED CHEMICAL & DYE CO
BIRD & SON INC
BROWN CO
CAREY (PHILIP) MFG CO
CERTAIN-TEED PRODUCTS CORP
Consolidated Water Power & Paper Co
Fleming & Sons Inc
FLINTKOTE CO
Globe Roofing Products Co Inc
Howitt (C B) & Brothers Inc
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Pabco Products Inc
Prevlite Engineering Co
Protective Papers Inc
Ralston (W) & Co
RICKKRAFT CO
RUBEROID CO
Seaboard Plastics Corp
SISALKRAFT CO
Thilmany Pulp & Paper Co
U S GYPSUM CO
Welt & Sons Paper Co

▶ PAPER, BUILDING, REINFORCED, WATERPROOF

Anlier Corp
BIRD & SON INC
Bonafide Mills Inc
CERTAIN-TEED PRODUCTS CORP
Ford Roofing Products Inc
Hosking Paper Co
JOHNS-MANVILLE CORP
Protective Papers Inc
RICKKRAFT CO
RUBEROID CO
SISALKRAFT CO

▶ PAPER, CONCRETE CURING

Anlier Corp
Hosking Paper Co
Keystone Asphalt Products Co
Prevlite Engineering Co
Protective Papers Inc
RICKKRAFT CO
RUBEROID CO
SISALKRAFT CO
Thilmany Pulp & Paper Co
Welt & Sons Paper Co

▶ PAPER, COPPER ARMORED

Anlier Corp
CHASE BRASS & COPPER CO
RICKKRAFT CO
SISALKRAFT CO
Wesco Flashing Co

▶ PAPER, SILO LINER

AMERICAN ASPHALT ROOF CORP
Anlier Corp
BARRETT DIV ALLIED CHEMICAL & DYE CORP
Ford Roofing Products Co
Keystone Asphalt Products Co
Prevlite Engineering Co
Protective Papers Inc
RICKKRAFT CO
RUBEROID CO
Thilmany Pulp & Paper Co

▶ PAPER, STACK COVER

BARRETT DIV ALLIED CHEMICAL & DYE CORP
Protective Papers Inc
RICKKRAFT CO

▶ PARTITIONS, FOLDING

Curtliff Co

Holcomb & Hobe Mfg Co Inc
HOUGH SHADE CORP
International Steel Co
NEW CASTLE PRODUCTS CO
Orchard Bros Inc
RICHARDS-WILCOX MFG CO

▶ PARTITIONS, GLASS, STRUCTURAL

ALSYNITE CO OF AMERICA
Apex Brass & Bronze Works
LIBBEY-OWEN-FORD GLASS CO
Pennsylvania Wire Glass Co
PITTSBURGH PLATE GLASS CO

▶ PARTITIONS, OFFICE, HARDWOOD

U S PLYWOOD CORP

▶ PARTITIONS, STEEL

AETNA STEEL PRODUCTS CORP
Alabama Metal Lath Co
Armo Drainage & Metal Products Inc
BERGER MFG CO DIV REPUBLIC STEEL CORP
BOSTWICK STEEL LATH CO
FENESTRA BUILDING PRODUCTS
Goldsmith Metal Lath Co
GREAT LAKES STEEL CORP STRAN-STEEL DIV
Hawserman Co
INLAND STEEL PRODUCTS CO
Macomber Inc
Mahon (R C) Co
Martin-Parry Corp
Mills Co
Milwaukee Stamping Co
NATIONAL GYPSUM CO
PENN METAL CO INC
Sanymetal Products Inc
Steel Partitions Inc
U S GYPSUM CO
Weis (Henry) Mfg Co
Wheeling Corrugating Co

▶ PARTITIONS, TOILET

All Metal Partition Co Inc
FIAT METAL MFG CO
Patterson (J C) Co
Logan Co
Meyers (Fred L) Mfg Co
Stewart Iron Works Co Inc
Weis (Henry) Mfg Co

▶ PARTITIONS, WOOD, FIBER, GYPSUM, OTHER COMPOSITIONS, MATERIALS FOR

Bioxolite Co of America Div Hachmeister Inc
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
JOHNS-MANVILLE CORP
Macomber Inc
NATIONAL GYPSUM CO
RESOLITE CORP
U S GYPSUM CO

▶ PASTE, WALLPAPER

Commercial Paste Co
Consumers Glue Co
Crescent Products Co
Devoe & Reynolds Inc
Fuller (H B) Co
Hayes Adhesives Co
La Page's Inc
Paisley Products Inc
Patent Cereals Co
PITTSBURGH PLATE GLASS CO
Sisk (R J) Co
Tamm Industries Inc
Wesco Waterpaints Inc

▶ PENCILS, CARPENTERS'

Blaisdell Pencil Co
Cupples Co
Dietsgen (Engene) Co
Dixon (Joseph) Crucible Co
Eagle Pencil Co
Eberhard-Faber Pencil Co
Economy Novelty & Printing Co
Faber-Castell (A W) Pencil Co
KEUFFEL & ESSER CO
Koh-I-Noor Pencil Co
Linton Pencil Co
Murphy (Thomas D) Co
Reno
Shedd-Brown Mfg Co
WHITE (DAVID) CO

▶ PENCILS, DRAFTING

Eberhard Faber Pencil Co

▶ PILING

Armo Drainage & Metal Products Inc
INLAND STEEL CO

▶ PIPE, ASBESTOS CEMENT

JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Smith & Kanzler Inc
Standard Asbestos Mfg Co
Universal Sewer Pipe Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

▶ PIPE, CAST IRON, SOIL & FITTINGS

Anniston Soil Pipe Co
Brady Conveyors Corp
Bryers (A M) Co
CRANE CO
Eastern Foundry Co
Industrial Iron Works
Medina Iron & Brass Co
Zurn (J A) Mfg Co

▶ PIPE, CLAY, SEWER

Acme Brick Co
American Vitriified Products Co
Bowerston Shale Co
California Pottery Co
Cannelton Sewer Pipe Co
Carey Brick Co
Clark (N) & Sons Div Pacific Clay Products
Clay City Pipe Co
Columbia Pipe Co
Dee Clay Products Co
Dennison Sewer Pipe Corp
Denver Sewer Pipe & Clay Co
Dickey (W S) Clay Mfg Co
Evans Pipe Co
Evans & Howard Sewer Pipe Co
Gladding-McBain & Co
Iowa Pipe & Tile Co
Junction City Clay Co
Lehigh Sewer Pipe & Tile Co
Logan Clay Products Co
NATIONAL CLAY PIPE MFRS INC
National Fireproofing Co
Owens Clay Products Co
Owensboro Sewer Pipe Co
Pacific Clay Products
Patton Clay Mfg Co
Pine Hall Brick & Pipe Co
Pomona Terra-Cotta Co
Red Wing Sewer Pipe Corp
Robinson Clay Product Co
Stillwater Clay Products Co
St. Mary's Clay Products Co
Strator Drain Tile Co
Union Clay Mfg Corp
Universal Sewer Pipe Corp
Washington Brick & Limes Co
What Cheer Clay Products Co
Wheeling Steel Corp
White Hall Sewer Pipe & Stoneware Co

▶ PIPE, CONDUCTOR, EAVES TROUGH

Alabama Metal Lath Co
Ames (W B)
Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Edwards Mfg Co
Hopson (W C) Co
Hussey (C G) & Co
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
Klauser Mfg Co
La Crosse Steel Roofing & Corrugating Co
Lyon Conklin & Co Inc
Martin Metal Mfg Co
Mid-States Steel & Wire Co
New Holland Metals Co
New Orleans Roofing & Metal Co
Newport Steel Corp
NICHOLS WIRE & ALUMINUM CO
Northwest Metal Products Inc
Penn Supply & Metal Corp
Potts-Farrington Co
Reeves Steel & Mfg Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
ST PAUL CORRUGATING CO
Tiffin Art Metal Co
UNITED STATES STEEL CO
Wheeling Corrugating Co
Williams-Walker Co
York Corrugating Co

▶ PIPE, CULVERT, IRON & STEEL

Armed Drainage & Metal Products Inc
Armed Steel Corp
Beall Pipe & Tank Corp
Industrial Iron Works
Newport Steel Corp
REPUBLIC STEEL CORP
ST PAUL CORRUGATING CO
UNITED STATES STEEL CO
UNITED STEEL FABRICATORS INC
Wheeling Corrugating Co

▶ PIPE, FIBER CONDUIT

Fibre Conduit Co
Orangeburg Mfg Co
SONOCO PRODUCTS CO

▶ PIPE JOINT SEALING COMPOUNDS

Anti-Hydro Waterproofing Co
Arco Co
Blue Ridge Tale Co Inc
Boyer Chemical Laboratory Co Inc
CALBAR PAINT & VARNISH CO
CAREY (PHILIP) MFG CO
Curtis Mfg & Asbestos Co
Dixon (Joseph) Crucible Co

DuPont DeMouours (E I) & Co
FLINTKOTE CO
Gillespie Varnish Co
Gumpitt Laboratories
Horn (A C) Co
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Koppers Co Inc Tar Products Div
Lake Chemical Co
PEGORA PAINT CO INC
Prentiss Engineering Co
Reilly Tar & Chemical Corp
Republic Cressoting Co
Robinson Clay Product Co
Sauerstein Cements Co
Servicised Products Corp
Smooth-On Mfg Co
Sullivan Co
X-Pando Corp

▶ PIPE, SEWER, BITUMINIZED FIBER

BROWN CO
Orangeburg Mfg Co Inc

▶ PIPE, SEWER, CONCRETE

American Vitriified Products Co
Universal Concrete Pipe Co Inc

▶ PIPE, STEEL

Allegheny Ladium Steel Corp
Allegheny Steel Co
Armed Drainage & Metal Products Inc
Armed Steel Corp
Beall Pipe & Tank Corp
Bethlehem Steel Co
Decatur Iron & Steel Co
Dempster Mill Mfg Co
JONES & LAUGHLIN STEEL CORP
LACLEDE STEEL CO
National Tube Co
Reeves Steel & Mfg Co
REPUBLIC STEEL CORP
Wheeling Steel Corp
Youngstown Steel Products

▶ PIPE, STEEL GALVANIZED

Bambrick (Richard J)
Bethlehem Steel Co
JONES & LAUGHLIN STEEL CO
National Tube Co
REPUBLIC STEEL CORP
UNITED STEEL FABRICATORS INC
Wheeling Steel Corp
Youngstown Sheet & Tube Co

▶ PIPE, WOOD

Arrow Tank Co Inc
Baltimore Cooperage Tank & Tower Co
Caldwell (W E) Co
Caspar Lumber Co
Johnson & Carlson
M & M Woodworking Co Respress Div
Pacific Wood Tank Corp
Redwood Mfrs Co
Willamette Valley Lumber Co
Wyckoff (A) & Son Co

▶ PIPE, WROUGHT IRON

Armed Drainage & Metal Products Inc
Beall Pipe & Tank Corp
Bryers (A M) Co
CRANE COMPANY
Decatur Iron & Steel Co
Dempster Mill Mfg Co
McDonald (A Y) Mfg Co
South Chester Tube Co

▶ PIPE & TUBING, ALUMINUM

Revere Copper & Brass Inc
REYNOLDS METALS CO BUILDING PRODUCTS DIV

▶ PIPE & TUBING, BRASS & COPPER

American Brass Co
Amaranda Sales Co
Bridgeport Brass Co
CHASE BRASS & COPPER CO
Mueller Brass Co
Revere Copper & Brass Inc
Sevill Mfg Co
Wolverine Tube Div Calumet & Heda Consolidated Copper Co

▶ PIPE & TUBING, PLASTIC

American Extruded Products Co
Amerline Inc
Carlson Products Corporation
Detroit Macoid Corp
Extruded Plastics Inc
Goodrich (B F) Co
Johnson Plastic Corp
MONSANTO CHEMICAL CO
Raybestos-Manhattan Inc Manhattan Rubber Div
Superior Plastics Div Commonwealth Plastics Inc
Tennessee Eastman Corp

U S Rubber Co
Viking Corp

▶ PLANERS

American Saw Mill Machine Co
BELSAW MACHINERY CO
BOICE-CRANE CO
DE WALT INC
Duro Metal Products Co
Greenlee Tool Co
PARKS WOODWORKING MACHINE CO
Power King Tool Corp
ROCKWELL MFG CO DELTA POWER TOOL DIV
Wallace (J D) & Co
WHITNEY (BAXTER D) & SONS INC
Yates-American Machine Co

▶ PLANES

Capwell Mfg Co
WALL TOOL CO
METAL PRODUCTS CORP
Millers Falls Co
Peck Stow & Wilcox Co
PORTER-CABLE MACHINE CO
SARGENT & CO
STANLEY TOOLS DIV STANLEY WORKS
Vaughan & Bushnell Mfg Co

▶ PLANKS, ASPHALT

CAREY (PHILIP) MFG CO
Keystone Asphalt Products Co
Protective Papers Inc
Servicised Products Corp

▶ PLANKS, EXTENSION

Babcock (W W) Co
Bauer Mfg Co
Breyer Brothers Whiting & Co
Clark (J R) Co
Goshen Mfg Co
Howard Mfg Co
Plastering Wall Board Co
Tilley (John R) Ladders Co
Woodenware Products Corp

▶ PLANKS, FIBER, INSULATING

ARMSTRONG CORK CO BUILDING MATERIALS DIV
CELETEX CORP
Durisol Inc
Fir-Tex Insulating Board Co
FLINTKOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
NATIONAL GYPSUM CO
Plastering Wall Board Co
Simpson Logging Co
U S GYPSUM CO
WOOD CONVERSION CO

▶ PLANKS, GYPSUM

CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
U S GYPSUM CO

▶ PLAN SERVICES

All Climates Plan Book Agency
American Plan Service Co
Architectural Plan Service Inc
Brown-Biologics Co
Continental Steel Corp
Easi-Bild Pattern Co
GARLINGHOUSE (L F) CO
Home Plan Book Co
Home Planners Inc
HOME OF THE WEEK PLAN SERVICE
Lumberman's Plan Service
Martin (S Clyde)
National Plan Service Inc
Nationwide House Plan Service
Plandrite Homes Inc
SIMMONS-BOARDMAN PUB CORP
Southern Plans Co
Standard Homes Co
T-Build Enterprises
United Home Building Plan Service
Universal Plan Service
WEYERHAEUSER SALES CO

▶ PLANS, HOUSE, IN BOOKS

Brown-Biologics Co
CELOTEX CORP
Cleveland Publications
GARLINGHOUSE (L F) CO
Home Building Plan Service
Home Plan Book Co
Housing Plan Service Inc
Martin (S Clyde)
National Plan Service Inc
SIMMONS-BOARDMAN PUB CORP
Standard Homes Co
Universal Plan Service
WEYERHAEUSER SALES CO

▶ PLASTER, ACOUSTICAL

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
GREAT LAKES CARBON CORP
KEASBEY & MATTISON CO

Kelley Island Lime & Transport Co
Mission Lime Products Corp
NATIONAL GYPSUM CO
Nelson (B F) Mfg Co
Schundler (F E) & Co Inc
Sealcon Products Inc
Sibrio Corporation
Sun-Lite Products
Sullivan Co
Tamm Industries Inc
U S GYPSUM CO
Western Mineral Products Co
ZONOLITE CO

▶ PLASTER, ASBESTOS

KEASBEY & MATTISON CO

▶ PLASTER, BONDING

CELOTEX CORP
NATIONAL GYPSUM CO
NU-WALL MFG CO

▶ PLASTER, CASTING

CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
Sational Products Inc
U S GYPSUM CO
WARREN-KRIGHT CO

▶ PLASTER, CEDAR

Coddington (E D) Mfg Co
Mineral Pigments Corp
Tamm Industries Inc

▶ PLASTER, FIBERED

Blue Diamond Corp
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Coddington (E D) Mfg Co
Fairmont Wall Plaster Co
Grand Rapids Plaster Co
Ideal Cement Co Colorado Portland Div
NATIONAL GYPSUM CO
OHIO HYDRATE & SUPPLY CO
Pacific Portland Cement Co
Sealcon Products Inc
U S GYPSUM CO
Woodville Lime Co

▶ PLASTER, FINISHING, COLORED

Beautex Plaster Co
Blue Diamond Corp
CELOTEX CORP
Coddington (E D) Mfg Co
Grand Rapids Plaster Co
NATIONAL GYPSUM CO
OHIO HYDRATE & SUPPLY CO
Penn-Crete Products Co
Sealcon Products Inc
Tamm Industries Inc
U S GYPSUM CO
Woodville Lime Co

▶ PLASTER, FINISHING, MOULDING, GAUGING

Blue Diamond Corp
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Grand Rapids Plaster Co
OHIO HYDRATE & SUPPLY CO
Pacific Portland Cement Co
U S GYPSUM CO

▶ PLASTER, GYPSUM

Alabastine Paint Products
Blue Diamond Corp
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Grand Rapids Plaster Co
NATIONAL GYPSUM CO
Pacific Portland Cement Co
Sealcon Products Inc
Tamm Industries Inc
U S GYPSUM CO

▶ PLASTER, INSULATING

GREAT LAKES CARBON CORP PERLITE DIV
Mikolite Sales Corp
NATIONAL GYPSUM CO
Schundler (F E) & Co Inc
Sealcon Products Inc
Sun-Lite Products Co
ZONOLITE CO

▶ PLASTER, LIME

CELOTEX CORP
Grand Rapids Plaster Co
Kelley Island Lime & Transport Co
OHIO HYDRATE & SUPPLY CO
Sealcon Products Inc
U S GYPSUM CO
Woodville Lime Co

▶ PLASTER, PATCHING

Alabastine Paint Products Div Chicago Browns & Color Works
American Fluoresit Co Inc
CERTAIN-TEED PRODUCTS CORP
Chicago Brown & Color Works
Coddington (E D) Mfg Co
Consumers Gline Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Curtis Mfg & Adhesives Co
 Durham (Donald) Co
 Fuller (H B) Co
 Grand Rapids Plaster Co
 Hayes Adhesives Co
 Ideal Cement Co Colorado Portland Div
 Made-Bite Products Inc
 Miraflo Co Inc
NATIONAL GYPSUM CO
 Reardon Co
 Reliable Paste & Chemical Co
 Rutland Fire Clay Co
 Saugan Co
 Seabak Chemical Co
 Sealcon Products Inc
 Stenhard Co
 Tamm Industries Inc
 United Gypsum Laboratories
U S GYPSUM CO
 Wesco Waterpaints Inc
 X-Pando Corp

▶ PLASTER RETARDERS

CELOTEX CORP
NATIONAL GYPSUM CO
U S GYPSUM CO

▶ PLASTERBOARD

ARMSTRONG CORP CO
 Blue Diamond Corp
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
 Grand Rapids Plaster Co
NATIONAL GYPSUM CO
 Faber Products Inc
U S GYPSUM CO

▶ PLASTER OF PARIS

CERTAIN-TEED PRODUCTS CORP
 Fairmont Wall Plaster Co
 Grand Rapids Plaster Co
NATIONAL GYPSUM CO
OHIO HYDRATE & SUPPLY CO
 Tamm Industries Inc
U S GYPSUM CO

▶ PLASTIC LAMINATES

Actna Plywood & Veneer Co
ALSWYTE CO OF AMERICA
ARBORITE CO LTD
 Babelite Corp
 Coddington (E D) Mfg Co
 Consolidated Water Power & Paper Co
 Continental Van Co
DAVIES (J A) & CO
 Farley & Loetscher Mfg Co
FORMICA CO
GENERAL ELECTRIC CO CHEMICAL DEPT
HASKELITE MFG CO
 Milwaukee Plywood Co
NATIONAL PLASTIC PRODUCTS CO
 Ohio Rubber Co
 Parkwood Corp
 Pioneer Plastics Corp
RODDIS PLYWOOD CORP
 St Paul & Tacoma Lumber Co
ST REGIS PAPER CO
U S PLYWOOD CORP
WESTINGHOUSE ELECTRIC CORP
WOODALL INDUSTRIES INC

▶ PLASTIC, WATERPROOF

Ahesto Mfg Co
 American Fluorite Co
 Anti-Hydro Waterproofing Co
BIRD & SON
FLINTKOTE CO
FORMICA CO
 Horn (A C) Co Inc
 Lehm Co
 Soudsborn (L) & Sons Inc
 Superior Plastics Div Commonwealth Plastics Inc
 Technical Supply Co
 X-Pando Corp

▶ PLIERS

Barcelo Mfg Co
 Bridgeport Hardware Mfg Corp
 Crescent Tool Co
 Graham (John H) & Co
 International Twist Drill Corp
 Klein (Mathias) & Sons
 P & C Hand Forged Tool Co
 Peck Stow & Wilcox Co
RED DEVIL TOOLS
SARGENT & CO

▶ PLUMB BOBS

Brown & Sharpe Mfg Co
 Dietgen (Eugene) Co
 Goldblatt Tool Co
HEUFFEL & ESSER CO
LUFKIN RULE CO
 Millers Falls Co
SARGENT & CO
WARREN-KNIGHT CO

▶ PLYWOOD, DOUGLAS FIR

Aberdeen Plywood Corp
 Anacortes Veneer Inc
ASSOCIATED PLYWOOD MILLS INC
 Astoria Plywood Corp
ATLAS PLYWOOD CORP
 Bellingham Plywood Corp
 Buffelen Lumber & Mfg Co
 Cascades Plywood Corp
 Coast Plywood Mfg Co

Coos Bay Lumber Co
 Crescent Plywood Co
DANT & RUSSELL INC
 Elliott Bay Mill Co
 Evans Products Co
 Everett Plywood & Door Corp
 Fir Mfg Co
GEORGIA-PACIFIC PLYWOOD CO
HARBOR PLYWOOD CORP
 Humboldt Plywood Corp
 Industrial Plywood Corp
 Lake Pleasant Plywood Co
 Linn Plywood & Door
 Mar-Lin Timber Corp
 Martin Bros Box Co
 Menasha Plywood Corp
 M & M Woodworking Co
 Mc Baker Plywood Inc
 Multnomah Plywood Corp
 Mutual Plywood Corp
 North Pacific Plywood Inc
 North Plywood Co Inc
 Northwest Door Co
 Oregon Plywood Corp
 Oregon-Washington Plywood Co
 Pacific Veneer & Plywood Corp
 Peninsula Plywood Corp
 Puget Sound Plywood Inc
 Ranier Plywood Co
RODDIS PLYWOOD CORP
 St Paul & Tacoma Lumber Co
 Simpson Logging Co
 Southern Oregon Plywood Corp
 Springfield Plywood Co
 Stevenson Plywood Corp
 Umpqua Plywood Corp
U S PLYWOOD CORP
VALLEY PLYWOOD CO
 Vancouver Plywood & Veneer Co
 Veneer Products Co
 Walton Plywood Co
 Washington Veneer Co
 West Coast Plywood Co
 Western Door & Plywood Corp
 Western Veneer Co
WEYERHAEUSER SALES CO

▶ PLYWOOD, EMBOSSED

Actna Plywood & Veneer Co
 Plytex Corp
 Shadowood
U S PLYWOOD CORP
 Zero Plywood Co

▶ PLYWOOD, EXTERIOR

Aberdeen Plywood Corp
 Anacortes Veneer Inc
ASSOCIATED PLYWOOD MILLS
ATLAS PLYWOOD CORP
 Bellingham Plywood Corp
 Buffelen Lumber & Mfg Co
 Cascades Plywood Corp
 Coos Bay Lumber Co
DANT & RUSSELL INC
 Elliott Bay Mill Co
 Evans Products Co
 Fir Mfg Co
GEORGIA-PACIFIC PLYWOOD CO
HARBOR PLYWOOD CORP
 Humboldt Plywood Corp
LONG-BELL LUMBER CO
 Martin Brothers Box Co
 M & M Woodworking Co
 Northwest Door Co
 Oregon Plywood Corp
 Oregon-Washington Plywood Co
 Peninsula Plywood Corp
 Puget Sound Plywood Inc
 Ranier Plywood Co
RODDIS PLYWOOD CORP
 St Paul & Tacoma Lumber Co
 Simpson Logging Co
 Springfield Plywood Corp
 Vancouver Plywood & Veneer Co
 Washington Veneer Co
 West Coast Plywood Co
WEYERHAEUSER SALES CO

▶ PLYWOOD, FABRIC COVERED

M & M Woodworking Co Resuprest Div
 Northwest Door Co
 St Paul & Tacoma Lumber Co
U S PLYWOOD CORP

▶ PLYWOOD, HARDBOARD SURFACED

Aberdeen Plywood Corp
ATLAS PLYWOOD CORP
 Industrial Plywood Corp
MASONITE CORP
 Multnomah Plywood Corp
 St Paul & Tacoma Lumber Co
 Simpson Logging Co
 Western Veneer Co

▶ PLYWOOD, HARDWOOD

ATLAS PLYWOOD CORP
DANT & RUSSELL INC
GEORGIA-PACIFIC PLYWOOD CO
HASKELITE MFG CO
HIGGINS INC
MENDEL CO
 M & M Wood Working Co

Northwest Door Co
 Oregon Plywood Corp
RODDIS PLYWOOD CORP
 Schmitz Brothers
 Simpson Logging Co
THOMASON PLYWOOD CORP
 U S Mengel Plywoods Inc
U S PLYWOOD CORP

▶ PLYWOOD, INLAID

U S PLYWOOD CORP

▶ PLYWOOD, MARINE

ASSOCIATED PLYWOOD MILLS INC
HARBOR PLYWOOD CORP
HASKELITE MFG CO
HIGGINS INC
 M & M Woodworking Co
 Northwest Door Co
 Oregon Plywood Corp
RODDIS PLYWOOD CORP
 U S Mengel Plywoods Inc
U S PLYWOOD CORP

▶ PLYWOOD, METAL COVERED

HASKELITE MFG CORP
U S PLYWOOD CORP

▶ PLYWOOD, PINE

ATLAS PLYWOOD CORP
HARBOR PLYWOOD CORP
LONG-BELL LUMBER CO
 M & M Woodworking Co
RODDIS PLYWOOD CORP
 U S Mengel Plywoods Inc
U S PLYWOOD CORP

▶ PLYWOOD, PLASTIC FACED

Anacortes Veneer Inc
 Buffelen Mfg Co
FORMICA CO
GEORGIA-PACIFIC PLYWOOD CO
HARBOR PLYWOOD CORP
HIGGINS INC
 M & M Woodworking Co
 Northwest Door Co
RODDIS PLYWOOD CORP
 St Paul & Tacoma Lumber Co
 Simpson Logging Co
 U S Mengel Plywoods Inc
U S PLYWOOD CORP
 West Coast Plywood Co
WESTINGHOUSE ELECTRIC CORP
WOODALL INDUSTRIES INC

▶ PLYWOOD, RAT REPELLENT

ATLAS PLYWOOD CORP
U S PLYWOOD CORP

▶ PLYWOOD, REDWOOD

ATLAS PLYWOOD CORP
 Buffelen Mfg Co
 M & M Woodworking Co

▶ PLYWOOD SEALERS

American Varnish Co
ATLAS PLYWOOD CORP
 Boring Brothers Inc
MONSANTO CHEMICAL CO
 Oregon Plywood Corp
 Standard Varnish Works
U S PLYWOOD CORP

▶ PLYWOOD, STRIATED

ATLAS PLYWOOD CORP
U S PLYWOOD CORP

▶ POLISHING MACHINES

AMERICAN FLOOR SURFACING MACHINE CO
 Atlas Floor Surfacing Machinery Corp
 Bigwell Machine Co
 Clarke Sanding Machine Co
 Detroit Surfacing Machine Co
 Fay Floor Machine Co
 Finnell System Inc
 Florbuss Habit Co
 Geeser Floorcraft Inc
 Hild Floor Machine Co
 Hilger Co
HOLT MFG CO
 Lunders Fry & Clark
 Lincoln-Schubert Floor Machinery Co
PORTER-CABLE MACHINE CO
RED DEVIL TOOLS
SKIL CORP
 Tennant (G H) Co

▶ PORCH ENCLOSURE PANELS

Compo-Miracle Products Co

▶ PORCHES AND CORNICES, MATERIALS FOR

CURTIS COS INC

Schwerd (A F) Mfg Co
 Wheeler Oswood Co

▶ POST CAPS & BASES

Brainard Steel Co
 Cleveland Steel Specialty Co
 Cole Mfg Co
 Consolidated Iron-Steel Mfg Co
 Schwerd (A F) Mfg Co
 Sharon Steel Co

▶ POST OR POLE PULLERS

KEYSTONE STEEL & WIRE CO

▶ POSTS, ADJUSTABLE FLOOR LEVELING AND SUPPORTING

Adjusta Post Mfg Co
 Akron Products Co
 Allen Steel Products
 Brainard Steel Co
 Donley Brothers
 Hill (R H) & Co
 Holm's Mfg Co of Ohio
 Kaptur (Joseph J) Sales Co
 Perma-Jack Corp
 Sharon Steel Co
 Spurgeon (N B) Co
 Sawhill Mfg Co
 Tel-Q-Post Co
 Templeton Kenly & Co
 United Metal Products Inc
 Wolfe Products Inc

▶ POSTS, FENCE, STEEL AND IRON

AMERICAN STEEL & WIRE CO
 Anchor Post Fence Div Anchor Post Products Inc
 Bethlehem Steel Co
 Calumet Steel Co Div Borg-Warner Corp
CECO STEEL PRODUCTS CORP
COLORADO FUEL & IRON CORP
 Columbia Steel Co
 Continental Steel Corp
CYCLONE FENCE DIV AMERICAN STEEL & WIRE CO
 Dare Products Inc
KEYSTONE STEEL & WIRE CO
 Mid-State Steel & Wire Co
 Northwestern Steel & Wire Co
 Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP

▶ POSTS AND POLES, CREOSOTED, SALT TREATED

American Lumber & Treating Co
CROSSETT LUMBER CO
 Fordyce-Crossett Lumber Co
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Koppers Co Inc
 Miller (T R) Mill Co
 Moss (T J) Tie Co
SOUTHERN PINE LUMBER CO

▶ POSTS AND POLES, WOOD

Adelphian Mill
 Arnold-Dain Corp
BRUCE (E L) CO
 Colfax Lumber & Treating Co
CONWAY LUMBER & LAND CO
CROSSETT LUMBER CO
 Fordyce-Crossett Lumber Co
 Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
 Idaho Pole Co
LONG-BELL LUMBER CO
 MacFarlane (L D) Co Ltd
 MacGillis & Gibbs Co
 Miller (T R) Mill Co
 Morton Mfg Co
NATIONAL POLE & TREATING DIV MINNESOTA & ONTARIO PAPER CO
 Nebraska Bridge Supply & Lumber Co
 Republic Treating Co
 Southwestern Treating Co
 Standard Products Co
 Willamette Valley Lumber Co
 Wood Products Co

▶ POTS, GLUE

Black Brothers Co Inc
BLACK & DECKER MFG CO
 Francis (Charles E) Co
 Sta-Warm Electric Co
 Vulcan Electric Co
 Waage Electric Inc

▶ POWER PLANTS

C & H Electric Co
 Filer & Stowell Co
HOMELITE CORP
 International Harvester Co
KOHLER CO
 Lettelt Iron Works
 Onan (D W) & Sons Inc
 Ready-Power Co
ROCKAWAY SALES CO
 Sterling Foundry Co Inc
 Swartwout Co
 Waukesha Motor Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

► PREFABRICATED BUILDINGS, FARM

Butler Mfg Co
Clayton & Lambert Mfg Co
Close-To-Nature Co
Crawford Corp
Factory Built Homes Inc
FORD (IVON R) INC
GBH-WAY HOMES INC
GREAT LAKES STEEL CORP
Green Lumber Co
Hargrove Co
Hodgson (E F) & Son
Houston Blow Pipe & Sheet Metal Works
Houston Ready-Cut House Co
James Mfg Co
Johnson Co
Pioneer Co
Potter Mfg & Lumber Co
Precision-Built Homes Corp
Pie Fab Industries
Starline Inc
STEELCRAFT MFG CO
Super-Structures Inc
Texas Housing Co Inc
TIMBER STRUCTURES INC
TRUSCON STEEL CO
U S Challenge Co
Unit Structures Inc
WEYERHAEUSER SALES CO

► PREFABRICATED CLOSETS

WENGEL CO
Boach & Musser Mfg Co

► PREFABRICATED GARAGES

Adirondack Log Cabin Co Inc
Bennett Industries Inc
Brooks-Skinner Co
Crawford Corp
Davis-Watson Mfg Co
Factory Built Homes Inc
FORD (IVON R) INC
GBH-WAY HOMES INC
Green Lumber Co
Hodgson (E F) & Sons
Hyde Park Lumber Co
Johnson Co
Pre-Fab Industries
Reliance Steel Products Co
Sectional Garage Works
Smith-Orr Inc
Soule Steel Co
Southern Mill & Mfg Co
STEELCRAFT MFG CO
Super-Structures Inc
Templeton (Herbert A) Lumber Co
Texas Housing Co Inc
Thayer Portable House Co
U S Challenge Co
U S Prefab Corp

► PREFABRICATED HOUSES

Adirondack Log Cabin Co Inc
Admiral Homes Inc
Aladdin Co
Allied Housing Associates Inc
American Bldg Co
American Homes Inc
Bennett Lumber Corp
Best Homes Inc
Blaw-Knox Div Blaw-Knox Co
Bral Homes Inc
Bridges (W P)
Burke Millwork Co
Bush Prefabricated Structures Inc
Calif Prefab Corp
Capital Prefab Inc
Charlotte Lumber & Mfg Co
City Lumber Co Inc
Crawford Corporation
Currier Lumber Co
Dade Brothers Inc
Drycember Homes Inc
Economy Housing Co
Eas-Wood Corp
Factory Built Homes Inc
FORD (IVON R) INC
Fox Brothers Mfg Co
GBH-WAY HOMES INC
General Housing Co
General Industries Inc
General Panel Corp
Green Lumber Co
GUNNISON HOMES INC
HARNISCHFEGGER CORP HOUSES DIV
Hayward Lumber & Investment Co
Hodgson (E F) & Son
HOMASOTE COMPANY
Housier Homes Inc
Housemart
Houston Ready-Cut House Co
Illinois Lumber Mfg Co
Indiana Demountable Housing Inc
Inland Homes Inc
Intermountain Homes
INTERNATIONAL HOMES INC
Johnson Company
Johnson Quality Homes Inc
K & M Corp
Knox Corporation
Le Tourneau (B G) Inc
Lewis Mfg Co
Lumber Fabricators Inc
Maryland Modern Housing Corp
Midwest Homes
Midwest Housing Corp
MODERN HOMES CORP
NATIONAL HOMES CORP
National Ideal Co
New Century Homes
NORGE COTTAGES INC

Page & Hill Homes
Panhandle American Houses
Pease Woodwork Co Inc
PLACE HOMES INC
Plainfield Lumber & Supply Co
Plywood Structures
Precision Built Homes Corp
Precision Homes Co
Prego Corporation
Pre-Fab Industries
Prefab Mfg Co
Prefabricated Products Co
Prefabricators Inc
Quality Homes
Reliance Homes Inc
Richmond Builders Inc
Riedel (L R) Lumber Co
Rock Island Lumber Co
St Elmo Housing Corp
Scott Lumber Co
Shelter Industries Inc
Soule Steel Co
Southern Mill & Mfg Co
Southwest American Houses
Southwestern Sash & Door Co
Stawway Prefabricated Building Co
STEELCRAFT MFG CO
Stout Homes
Strathmoor Company
Super-Structures Inc
Texas Prefabricated Housing Co
Thyer Mfg Corp Pollman Homes Div
TIMBER STRUCTURES INC
U S Challenge Co
U S Homes Inc
U S Prefabricating Corp
UNITED STEEL FABRICATORS INC
Unit Structures Inc
Universal Fabricating & Mfg Co
WADSWORTH HOMES INC
Well-Built Mfg Co
WEST COAST MILLS
WEYERHAEUSER SALES CO
Williams (Cy) Fabricators
Winston (N K) Associates

► PREFABRICATED LOG CABIN

PANELS
Fence Co of America
Rustic Furniture Co Inc

► PREFABRICATED WALL PANELS

American Bldg Co
Elliott Bay Mill Co
FENESTRA BUILDING PRODUCTS
Mahon Co

► PRESERVATIVES, CANVAS

American Tent & Awning Co
Astrup Co
Ceresal Chemical Corp
CUPRINOL DIV DARWORTH INC
Devoe & Raynolds Inc
Dow Chemical Co
Du Pont (E I) de Nemours Co Inc
Ensign Products Co
Fulton Bag & Cotton Mills
Glidden Co
Grasselli Chemical Dept Du Pont (E I) de Nemours Co Inc
Haynes Products Co
Interchemical Corp
Kubis (H B Fred)
Lowe Brothers Co
Materials & Treatment Co Inc
Minnesota Mfg & Mfg Co
Mobile Paint Mfg Co
MONSANTO CHEMICAL CO
Nelsonite Chemical Products Inc
Osmore Wood Preserving Co of America Inc
Pennsylvania Salt Mfg Co
PERMA PRODUCTS CO
PITTSBURGH PLATE GLASS CO
PROTECTION PRODUCTS MFG CO
Puritan Sales Co
Standard Industrial Products Inc
Sullivan Company
Unexcelled Chemical Corp
Vita-Var Corp
Weather-Seal Co
Wilbur & Williams Co
Wood-Treating Chemicals Co

► PRESERVATIVES, FIBER BOARD

Chapman Chemical Co
Dow Chemical Co
MONSANTO CHEMICAL CO
PROTECTION PRODUCTS MFG CO
Wood Treating Chemical Co

► PRESERVATIVES, MASONRY

Truscon Laboratories Div Devoe & Raynolds Inc

► PRESERVATIVES, WOOD

Abesto Mfg Corp
American Lumber & Treating Co
Barr (W M) & Co

BARRETT DIV ALLIED CHEMICAL & DYE CORP

Boyer Chemical Laboratory Co
Breinig Brothers Inc
BRUCE (E L) CO
CADOT (SAMUEL) INC
C-A-Wood Preserver Co
Carbolineum Wood Preserving Co
Ceresal Chemical Corp
Chapman Chemical Co
Chemical Research Products Co Inc
Coopers Creek Chemical Corp
Cre-O-Tox Chemical Co
CUPRINOL DIV DARWORTH INC
Devoe & Raynolds Inc
Dow Chemical Co
Du Pont (E I) de Nemours & Co Inc
Fox Brothers Mfg Co
General Paint Corp
Glidden Co
Gordon (George C) Chemical Co
Hill Termit Control Systems
Horn (A C) Co Inc
Kodmont Mfg Waterproofing Co Inc
King (E & F) & Co Inc
Koppers Co Inc
Lowe Brothers Co
Materials & Treatment Co Inc
MONSANTO CHEMICAL CO
MORTELL (J W) CO
Nelsonite Chemical Products Inc
Olympic Stained Products Co
Pabco Products Inc
Paisley Products Inc
Panther Oil & Grease Mfg Co
Parker (Ira) & Sons
PERMA PRODUCTS CO
PITTSBURGH PLATE GLASS CO
Fram & Lambert
PROTECTION PRODUCTS MFG CO
Protexol Corp
Purify Products Inc
Reilly Tar & Chemical Corp
Repuber Creosoting Co
Rockford Paint Mfg Co
Rock Island Millwork Co
RUBERID COMPANY
Sargent-Gerke Co
Sonneborn (L) Sons Inc
Speco Inc
Standard Industrial Products Inc
Steelco Mfg Co
Sullivan Co
Termitol Co
Tesco Chemicals Inc
U S PLYWOOD CORP
Vaccinoli Sales Co
Vita-Var Corp
Wesco Waterpaints
Wilbur & Williams Co
Wood-Treating Chemical Co

► PREVENTIVES, SAP STAIN

Breinig Brothers Inc
Chapman Chemical Co
Cre-O-Tox Chemical Co
Dow Chemical Co
Du Pont (E I) de Nemours Co Inc
Forman-Ford Co
MONSANTO CHEMICAL CO
Nelsonite Chemical Products Inc
PROTECTION PRODUCTS MFG CO
Wood Treating Chemicals Co
Wyandotte Chemical Corp

► PUBLICATIONS, CONSUMER, SHELTER

American Home Magazine Corp
American Magazine
BETTER HOMES & GARDENS
Country Gentleman
Farm Journal
GOOD HOUSEKEEPING FORUM
HOUSE BEAUTIFUL
House & Garden
Living for Young Homemakers
Parents' Magazine

► PUMPS, BOOSTER

BELL & GOSSETT CO
Taco Heaters Inc
THRUSH (H A) CO

► PUMPS, CENTRIFUGAL

ALLIS-CHALMERS MFG CO
Aurora Pump Co
DECATUR PUMP CO
CONSTRUCTION MACHINERY SALES CO
Deming Co
Economy Pumps Inc Div Hamilton Thomas Corp
Erie Pump & Engine Works
Esterik Mfg Co
FLINT & WALLING MFG CO INC
HOMELITE CORP
Lancaster Pump & Mfg Co Inc
Marlow Pumps
McDonald (A Y) Mfg Co
Myers (F E) & Brother Co
Red Jacket Mfg Co
Trane Co
Wayne Home Equipment Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► PUMPS, CONTRACTORS'

Barnes Mfg Co

Chain Belt Co
C H & E Mfg Co
CONSTRUCTION MACHINERY SALES CO
DELCO APPLIANCE DIV GENERAL MOTORS CORP
HOMELITE CORP
JAEGER MACHINE CO
Marlow Pumps
Myers (F E) & Brother Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► PUMPS, HEAT

Aeme Industries Inc
General Engineering & Mfg Co
Muncie Gear Works
Roth (Roy E) Co

► PUMPS, JET

DELCO APPLIANCE DIV GENERAL MOTORS CORP
FLINT & WALLING MFG CO INC
Oilux Co
Penberthy Injector Co

► PUMPS, STIRRUP

American Line
Baker Mfg Co
Butler Co
Deming Co
Dempster Mill Mfg Co
Hobbs Mfg Co
Hudson (H D) Mfg Co
INDEPENDENT LOCK CO
Lancaster Pump & Mfg Co Inc
McDonald (A Y) Mfg Co
Myers (F E) & Brother Co
Oakes Mfg Co
Red Cross Mfg Co
Red Jacket Mfg Co
Smith (D B)
Tennessee Stone Works

► PUMPS, SUCTION

Chicago Pump Co
Dayton Pump & Mfg Co
Deming Co
Erie Pump & Engine Works
Everite Pump & Mfg Co Inc
FLINT & WALLING MFG CO INC
Gardner Denver Co
HOMELITE CORPORATION
Lancaster Pump & Mfg Co Inc
McDonald (A Y) Mfg Co
Wayne Home Equipment Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► PUMPS, SUMP

American Well Works
Aurora Pump Co
C H & E Mfg Co
Chicago Pump Co
CONSTRUCTION MACHINERY SALES CO
Dayton Pump & Mfg Co
Deming Co
Dempster Mill Mfg Co
Economy Pumps Inc Div Hamilton-Thomas Corp
Everite Pump & Mfg Co Inc
Fairbanks Morse & Co
FLINT & WALLING MFG CO INC
Gould Pumps Inc
Jaccuzzi Brothers Inc
Kenso Inc
Lancaster Pump & Mfg Co
MALL TOOL CO
McDonald (A Y) Mfg Co
MILWAUKEE FLUSH VALVE CO
Myers (F E) & Brother Co
Oilux Co
Penberthy Injector Co
Pleuga Machine & Mfg Co
PRECISION PARTS CORP
Red Jacket Mfg Co
Tulflow Mfg Co
Wayne Home Equipment Co Inc
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

► PUMPS, WINDMILL

Aermotor Co
Baker Mfg Co
Butler Co
Deming Co
Dempster Mill Mfg Co
Fairbanks Morse & Co
FLINT & WALLING MFG CO INC
McDonald (A Y) Mfg Co
Myers (F E) & Brother Co
Red Jacket Mfg Co

► PUNCHES, CENTER

American Swiss File & Tool Co
Baltimore Tool Works
Bridgeport Hardware Mfg Corp
Cincinnati Tool Co
Crescent Tool Co
Damascus Steel Products Corp
Drew (C) & Co Inc
Fairmount Tool & Forging Co
Heller Brothers Co
Krauter & Co Inc
Mayhew Steel Products Inc
Mephisto Tool Co
Millers Falls Co
Original Enders Co
P & C Hand Forged Tool Co
Proto Tool Co
Rainey-Tools
STANLEY TOOLS DIV STANLEY WORKS

Trimble & Fink Mfg Co
Union Tool Co
United Wire Goods Mfg Co
Wide Drop Forge & Tool Co

▶ PUTTY, LEAD

Biddle Co
Cook Paint & Varnish Co
Eagle-Pfeifer Co
Gumpert Laboratories
Kubie (H B Prod)
PEGORA PAINT CO
PITTSBURGH PLATE GLASS CO
Sullivan Co
Tamm Industries Inc

▶ PUTTY, METAL SASH

Armstrong Co
Biddle Co
Blue Ridge Tale Co Inc
Briggs-Maroney Co Inc
Devoe & Reynolds Inc
Dieke-Pontius Co
Donley Brothers
Felton Ribley & Co
Fort Pitt Chemical Co
Gumpert Laboratories
Lauden Putty Works
WACKLANBURG-DUNCAN CO
Mar-Kay Mfg Co
Parker (Tra) & Sons Inc
PEGORA PAINT CO
Plastic Products Co
Smooth-On Mfg Co
Steeleste Mfg Co

▶ PUTTY, OIL

Armstrong Co
Biddle Co
Blue Ridge Tale Co Inc
Boyle-Midway Inc
Briggs-Maroney Co
Christy Co Inc
Devoe & Reynolds Inc
Dieke-Pontius Co
Durham (Donald) Co
Ever-Plastics Corp
Farwell Ozmins Kirk & Co
Felton Ribley & Co
FLINTKOTE CO
Fort Pitt Chemical Co
Fuller (W P) & Co
Glidden Co
Gondrich (B F) Co
Gumpert Laboratories
Harris Inc
Horn (A C) Co
JOHNS-MANVILLE CORP
Kuhls (H B Prod)
Lauden Putty Works
Las Silk Mfg Co
Lichten Co Inc
WACKLANBURG-DUNCAN CO
Mar-Kay Mfg Co
Minnesota Lissed Oil Paint Co
Pabco Products Inc
Parker (Tra) & Sons Inc
PEGORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
Plastic Products Co
Ravogran Co
Schalk Chemical Co
Seal Rite Caulking Co Inc
Steeleste Mfg Co
Sullivan Co
Tamm Industries Inc
Tronon Mfg Co
Tronon Laboratories Div Devoe & Reynolds
Inc
Webb Products Co
Wetherill (George D) & Co

▶ PUTTY, PLASTICIZED, WOOD

Boyle-Midway Inc
Bretnig Brothers Inc
Lacton Glue Mfg Co
Mobile Paint Mfg Co
National Casew Sales
Schalk Chemical Co
Steeleste Mfg Co
Technical Supply Co
William Products Co

▶ PUTTY REMOVERS, ELECTRIC

Fletcher Terry Co

▶ PUTTY, ROOF

Abesto Mfg Corp
Biddle Co
Blue Ridge Tale Co Inc
Ford Roofing Products Co
JOHNS-MANVILLE CORP
King (E & F) & Co Inc
Seal Rite Caulking Co Inc
Smooth-On Mfg Co
Stonhard Co

▶ PUTTY, WATER

Boyle-Midway Inc
Durham (Donald) Co
Fort Pitt Chemical Co
Fuller (H B) Co
Lichten Co Inc
Reardon Co
Ravogran Co
Schalk Chemical Co
Sheffield Bronze Paint Corp
Steeleste Mfg Co
Sullivan Co
Tamm Industries Inc

▶ RACEWAYS, WIRE CARRYING

AMERICAN TELEPHONE & TELEGRAPH CO
Knapp Brothers Mfg Co
REPUBLIC STEEL CORP

▶ RACKS, BLUEPRINT NATIONAL CO INC

▶ RADIATORS

AMERICAN RADIATOR & STANDARD SANITARY CORP
BURNHAM CORP BOILER DIV
DUNKIRK RADIATOR CORP
National Radiator Corp
U S Radiator Corp
VULCAN RADIATOR CO
Well-McLain Co
YOUNG RADIATOR CO

▶ RADIATORS, CONVECTOR

BUSH MFG CO
FEDDERS QUIGAN CORP
Rome-Turney Radiator Co

▶ RADIATORS, PORTABLE

Aeme Electric Heating Co
Electric Steam Radiator Corp
Sentry Metal Products Div Sentry Control Corp

▶ RADIOS, FLUSH WALL

Bendix Radio Div Bendix Aviation Corp
FLUSH WALL RADIO CO

▶ RAFTERS, LAMINATED

AMERICAN ROOF TRUSS CO
INLAND STEEL PRODUCTS CO
Knapp Brothers Mfg Co
Laminators Inc
RILCO LAMINATED PRODUCTS INC
Super-Structures Inc
Tacoma Lumber Fabricating Co
TIMBER STRUCTURES INC
Truss Structures Inc
WEYERHAEUSER SALES CO
Wollaefer Steel Corp
Zink (Frank J)

▶ RAILINGS, METAL

Armed Drainage & Metal Products Inc
ARTCRAFT ORNAMENTAL IRON CO
Bellmont Co
BELSON MFG CO
Blum (Julius) Co Inc
Buffalo Wire Works Co
Central Products Co
CHASE BRASS & COPPER CO
CINCINNATI IRON FENCE CO
COFFMAN (E G) CO
Columbus Brass Co
Davis & Stahl Co
Deceatur Iron & Steel Co
Des Moines Ornamental Iron Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
Fiske (J W) Iron Works
Grand Rapids Wire Products Co
Hawkins Iron Co Inc
Hutchinson Co
International Steel Co
Kentucky Metal Products Co
Locke Mfg Co
Logan Co
METAL CRAFTERS
Meyers (Fred L) Mfg Co
Newman Brothers Inc
Page Steel & Wire Div American Chain & Cable Co Inc
Samsco (Wm J) Iron Co
Smith (F P) Wire & Iron Works
Southern Wire & Iron Works
Standard Bronze Co
Stewart Iron Works Co Inc
Valley Metal Products
Vulcan Metal Products Co
Wiemann (Ernest) Iron Works

▶ RAILINGS, WOOD

Cole Mfg Co
CROSSSET LUMBER CO
CURTIS COB INC
Farley & Lotsecher Mfg Co
Fordyce-Crosssett Lumber Co
Front Lumber Industries Inc
Keystone Frame & Mfg Co
Kinross Pine Mills Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Morgan Co
Rock Island Millwork Co
Willamette Valley Lumber Co

▶ RANGES, ELECTRIC, BUILT IN

Thermador Electrical Mfg Co

▶ RANGES, ELECTRIC

A B Stove Co
Admiral Corp
America & Southern Corp
Benjamin Electric Co
Cavalier Corp
CROSLY DIV AVCO MFG CORP
Detroit Michigan Stove Co
Detroit Vapor Stove Div Borg-Warner Corp
Estate Stove Co Div Noma Electric Co
Excelsior Stove & Mfg Co
Florence Stove Co
Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO APPLIANCES & MERCHANDISE DEPT
Gibson Electric Refrigerator Corp
Gray & Dudley Co
HOTPOINT INC
Kalamazoo Stove & Furnace Co
KELVINATOR DIV NASH-KELVINATOR CO
Kennedy Co
Landers Frary & Clark
Lindemann (A J) & Hoverson Co
Malleable Iron Range Co
Monitor Equipment Corp
Montag Stove & Furnace Works
MURRAY CORP OF AMERICA
NORGE DIV BORG-WARNER CORP (APPLIANCE DIV)
Perfection Stove Co
Philco Corp
Prentiss Wabers Products Co
Pressed Steel Co
Roberts & Mauder Corp
Rotenfeld Electric Co Inc
Thermador Electrical Mfg Co
WESTINGHOUSE ELECTRIC CORP

▶ RANGES, GAS

A B Stove Co
America & Southern Corp
American Stove Company
Birmingham Stove & Range Co
Brown Stove Works
Calorie Stove Corp
Cavalier Corp
Chambers Products Inc
Cribben & Sexton Co
Crown Stove Works
Detroit Michigan Stove Co
Detroit Vapor Stove Div Borg-Warner Corp
Eglin Stove & Oven Co Div Aeme Visible Records Inc
Estate Stove Co Div Noma Electric Co
Excelsior Stove & Mfg Co
Florence Stove Co
Gen City Stove Mfg Co
GENERAL AIR CONDITIONING CORP
Glenwood Range Co
Globe American Corp
Grand Home Appliances Co
Graham (James) Mfg Co
Hardwick Stove Co
Karr Range Co
Lindemann (A J) & Hoverson Co
Majestic Mfg Co
Malleable Iron Range Co
Monitor Equipment Co
Mt Vernon Furnace & Mfg Co
MURRAY CORP OF AMERICA
NORGE DIV BORG-WARNER CORP (APPLIANCE DIV)
Odin Stove Mfg Co
O'Keefe & Merritt Co
Paragon Utilities Corp
Perfection Stove Co
Prentiss Wabers Products Co
Rosenow Stove Co
Roberts & Mauder Corp
Roper (George D) Corp
Sexton (S B) Stove & Mfg Co
Tappan Stove Co
Utility Appliance Corp
Washington Stove Works
Weilheit Stove Company Inc
Western-Holly Appliance Co
Western Stove Co

▶ RANGES, GAS & ELECTRICAL REFRIGERATOR COMBINATION

Aeme-National Refrigeration Co
GENERAL AIR CONDITIONING CORP

▶ RECEIVERS, GARBAGE

AIR CONTROL PRODUCTS INC
Arvey Corp
BOSWICK STEEL LATH CO
Donley Brothers Co
Gabriel Steel Co
Geuder Paeschke & Frey Co
Kraus (Walter S) Co
LAWSON (F H) CO
MAJESTIC CO
National Enameling & Stamping Co
Northwest Metal Products Inc
Witt Cornice Co

▶ RECEIVERS, PACKAGE

AIR CONTROL PRODUCTS INC
Allen Steel Products
BOSWICK STEEL LATH CO
COPCO STEEL & ENGINEERING CO

CORBIN CABINET LOCK DIV AMERICAN HARDWARE CORP
Donley Brothers Co
Excel Metal Cabinet Co Inc
Gabriel Steel Co
Harris Inc
MAJESTIC CO

▶ REELS, GARDEN HOSE

Crao Sales Corp
Lewis Engineering & Mfg Co
True Temper Corp
Zierden Mfg Co

▶ REFRIGERATORS, ELECTRIC

Admiral Corp
Amana Society
Cooler Corp
Copeland Refrigerators
CROSLY DIV AVCO MFG CORP
Deepfreeze Div Motor Products Corp
Dexter Co
Estate Stove Co Div Noma Electric Co
Friedrich (Ed) Inc
Frigidaire Div General Motors Corp
GENERAL AIR CONDITIONING CORP
GENERAL ELECTRIC CO APPLIANCES & MERCHANDISE DEPT
General Implement Corp
General Refrigerator Corp
Gibson Electric Refrigerator Corp
Gillilan Brothers Inc
Herbat (L B) Corp
HOTPOINT INC
Jordan Refrigerator Co
KELVINATOR DIV NASH KELVINATOR CO
King Refrigerator Corp
Leeson Steel Prods Inc
Lindemann (A J) & Hoverson Co
McQuay Inc
Monitor Equipment Corp
NORGE DIV BORG-WARNER CORP (APPLIANCE DIV)
O'Keefe & Merritt Co
Philco Refrigerator Co
Potter Refrigerator Corp
Pressed Steel Co
Refrigeration Sales Co
Saver Refrigerator Co
Ward Refrigerator & Mfg Co
WESTINGHOUSE ELECTRIC CORP

▶ REFRIGERATORS, GAS

SEVEL INC

▶ REGISTERS, HEATING AND VENTILATING

AIR CONTROL PRODUCTS INC
American Foundry & Furnace Co
Auer Register Co
BENNETT-IRELAND INC
Excelsior Stove & Mfg Co
Forest City Foundries Co
Hart & Conley Mfg Co
HEATLATOR INC
INLAND STEEL PRODUCTS CO
Krauser-Boyd Inc
Liberty Foundry Co
MAJESTIC CO
Parker (S) Hardware Mfg Corp
Philadelphia Hardware & Malleable Iron Works
Standard Steel Cabinet Co
Tuttle & Bailey Inc
U S Register Co

▶ REPELLENTS, BIRD

NIXALITE CO OF AMERICA

▶ REPELLENTS, INSECT

All-Nu Products Co
BARNETT DIV ALLIED CHEMICAL & DYE CORP
Calumet Refining Co
Glidden Co
Nourse Oil Co
Socony-Vacuum Oil Co Inc

▶ REPELLENTS, WATER

American Lumber & Treating Co
Armor Laboratories Inc
Chapman Chemical Co
Concor Paint Co
CUPRINOL DIV DARWORTH INC
Basco Co Inc
Dow Chemical Co
Du Pont (E I) de Nemours & Co Inc
Flextrock Co
Horn (A C) Co Inc
Monroe Co Inc
NONSANTO CHEMICAL CO
PROTECTION PRODUCTS MFG CO
Roer Chemical Millwork Co
STANDARD DRY WALL PRODUCTS INC
Spray-O-Bond Co
Trucon Laboratories Div Devoe & Reynolds
Inc
Vite-Var Co
Wood-Treating Chemicals Co
Wurdack Chemical Co

▶ RESIN, SYNTHETIC

BARNETT DIV ALLIED CHEMICAL & DYE CORP
Borden Co Chemical Div
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co
Firestone Plastic Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Fuller (H B) Co
Industrial Chemical Sales Div West Virginia
Pulp & Paper Co
Monite Waterproof Glue Co
MONSANTO CHEMICAL CO PLASTICS DIV
National Casein Sales
Paisley Products Inc
Perkins Glue Co
Placo Div Paisley Products Inc
Reilly Tar & Chemical Corp
Resinous Products & Chemical Co
Rohm & Haas Co
U S PLYWOOD CORP
U S Rubber Co

▶ RODDING MACHINES

Whitman Mfg Co

▶ RODS, LIGHTNING

American Lightning Rod Co Inc
Boston Lightning Rod Co
Brown Lightning Protection System
Burbett Lightning Rod Co
Doolley Lightning Rod Co
Electra Protection Co Inc
Independent Protection Co Inc
Moore Bros Lightning Rod Co
National Lightning Protection Co
Ohio Lightning Rod Co
Robbins Lightning Protection Co
Shrager & Johnson Inc
Thompson (George E) Co
West Dodd Lightning Conductor Corp

▶ ROLLERS, LAWN

Boyle Mfg Co
Jackson Mfg Co
Lansing Co
Ohio Machine Products Co
Whitehurst (B W) Mfg Corp

▶ ROLLERS, LINOLEUM

ARMSTRONG CORK CO BUILDING MATERIALS DIV
Lansing Co
Selek (Walter E) & Co

▶ ROLLS, RIDGE, ROOF VENTILATING

Allen Steel Products
INLAND STEEL PRODUCTS CO
Klauser Mfg Co
ST PAUL CORRUGATING CO

▶ ROLLS, ROOF RIDGE

Alabama Metal Lath Co
Allen Steel Products
Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
Bethlehem Steel Co
BIRD & SON
CECO STEEL PRODUCTS CORP
CELOTEX CORP
CHASE BRASS & COPPER CO
Continental Steel Corp
Edwards Mfg Co
FLINTKOTE CO
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Klauser Mfg Co
La Crosse Steel Roofing & Corrugating Co
Mid-States Steel & Wire Co
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
Northwest Metal Products Inc
Penn Supply & Metal Corp
REPUBLIC STEEL CORP
REYNOLDS METALS CO BUILDING PRODUCTS DIV
RUBEROID CO
ST PAUL CORRUGATING CO
Southern States Iron Roofing Co
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co
Williams-Wallace Co

▶ ROOF SADDLES

Hudson (H D) Mfg Co
INLAND STEEL PRODUCTS CO
Macomb Steel Products Co
Reeves Steel & Mfg Co

▶ ROOFING, ALUMINUM

Alumalux Co
Aluminum Co of America
CECO STEEL PRODUCTS CORP
Chemical Supply Co
Cupples Co
KAISER ALUMINUM & CHEMICAL SALES INC
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Southern States Iron Roofing Co
Tiffin Art Metal Co

▶ ROOFING, ALUMINUM, CORRUGATED

Aluminum Co of America
CECO STEEL PRODUCTS CORP
Cupples Co

New Holland Metals Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Southern States Iron Roofing Co

▶ ROOFING, ASBESTOS

CEMENT

CAREY (PHILIP) MFG CO
Ehret Magnesia Mfg Co
FLINTKOTE CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
Logan-Long Co
Pabeo Products Inc
RUBEROID CO
Seaboard Plastics Corp
Supradur Corp

▶ ROOFING, ASBESTOS CORRUGATED

ASBESTONE CORP
CAREY (PHILIP) MFG CO
FLINTKOTE CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
RUBEROID CO

▶ ROOFING, ASPHALT ROLL

Amalgamated Roofing Co
AMERICAN ASPHALT ROOF CORP
BARRETT DIV ALLIED CHEMICAL & DYE CO
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELOTEX CORP
CERTAIN-TEED PRODUCTS CO
FLINTKOTE CO
Ford Roofing Products Co
Globe Roofing Products Co Inc
Gold Seal Roofing Co
JOHNS-MANVILLE CORP
Koppers Co Inc
Lehon Co
Logan-Long Co
NATIONAL MFG CORP
Nelson (B F) Mfg Co
Pabeo Products Inc
Protective Papers Inc
RUBEROID CO
Tamko Asphalt Products Inc
TEXAS CO
U S GYPSUM CO

▶ ROOFING, BUILT-UP, MATERIALS FOR

Asbesto Mfg Corp
Aluminum Building Products
AMERICAN ASPHALT ROOF CORP
BARRETT DIV ALLIED CHEMICAL & DYE CO
BIRD & SON INC
CABOT (SAMUEL) INC
CAREY (PHILIP) MFG CO
CELOTEX CORP
CERTAIN-TEED PRODUCTS CO
FLINTKOTE CO
Ford Roofing Products Co
JOHNS-MANVILLE CORP
Koppers Co Inc
Lehon Co
New Holland Metals Co
OWENS-CORNING FIBERGLAS CORP
Reilly Tar & Chemical Corp
RUBEROID CO
TEXAS CO
U S GYPSUM CO

▶ ROOFING, CONCRETE SLAB

Cementone Co
Price Brothers Co

▶ ROOFING, COPPER

American Brass Co
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Edwards Mfg Co
Hussey (C G) & Co
INLAND STEEL PRODUCTS CO
Revere Copper & Brass Inc

▶ ROOFING, SEALERS, CORRUGATED

Fabricated Products Co
Serviced Products Corp

▶ ROOFING, STEEL

Aluminum Co of America
AMERICAN STEEL & WIRE CO
Gold Seal Roofing Co
BERGER MFG DIV REPUBLIC STEEL CORP
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Chemical Supply Co
Cheney Industries
Childers Mfg Co
Cincinnati Sheet Metal & Roofing Co
Columbia Steel Co
Continental Steel Corp

Cupples Co
YEWERS MFG CO
FENESTRA BUILDING PRODUCTS
FOLLANSBEE STEEL CORP
Gary-Pioneer Steel Corp
Granite City Steel Co
Goldsmith Metal Lath Co
Hopson (W C) Co
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
International Nickel Co
KAISER ALUMINUM & CHEMICAL SALES INC
Klauser Mfg Co
Lyon-Conklin & Co Inc
Mahon (R C) Co
Mid-States Steel & Wire Co
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
Revere Steel & Mfg Co
REPUBLIC STEEL CORP
Revere Copper & Brass Inc
ST PAUL CORRUGATING CO
Sioux Steel Co
Southern States Iron Roofing Co
TENNESSEE COAL IRON & RAILROAD CO
Tiffin Art Metal Co
TRUSCON STEEL CO
UNITED STATES STEEL CO
REPUBLIC STEEL CORP
Revere Copper & Brass Inc
ST PAUL CORRUGATING CO
Sioux Steel Co
Southern States Iron Roofing Co
TENNESSEE COAL IRON & RAILROAD CO
Tiffin Art Metal Co
TRUSCON STEEL CO
UNITED STATES STEEL CO
Wheeling Corrugating Co

▶ ROOFING, STEEL, ASPHALT COATED

Cheney Industries
Plasteel Products Co

▶ ROPE, COTTON

Archer (A W) Co Inc
Astrup Co
Rihb Mfg Co
Fricke (J E) Co
Graham (John H) & Co Inc
Lambeth Rope Corp
Puritan Cordage Mills
Raucher Mfg Co Inc
SAMSON CORDAGE WORKS
Southern Mills Corp
Turner & Stanton Co
Whitaker (William D)

▶ ROPE, HEMP, MANILA & SISAL

American Ladder Co
American Mfg Co
American Tent & Awning Co
Archer (A W) Co
Astrup Co
Broderick & Bascom Rope Co
Cating Rope Works Inc
Columbian Rope Co
Cupples Co
Fisher (Edwin H) Co
Graham (John H) & Co
Hoffman Lion Mills Inc
Hosking Paper Co
Johnson-Pickett Rope Co
New Bedford Cordage Co
Plymouth Cordage Co
Raucher Mfg Co
Rauschenberger (John) Co
St Louis Cordage Mills
Tubbs Cordage Co
Turner & Stanton Co
Wall Rope Works Inc
Waterbury Rope Co
Whitaker (William B)
Whitlock Cordage Co

▶ ROPE, WIRE

American Cable Div American Chain & Cable Co Inc
AMERICAN STEEL & WIRE CO U S STEEL CORP SUB
Bethlehem Steel Co
Broderick & Bascom Rope Co
COLORADO FUEL & IRON CORP
Columbia Steel Co
Hazard Wire Rope Div American Chain & Cable Co
MacWhiting Co
Roebbling's (John A) Sons
TENNESSEE COAL IRON & RAILROAD CO
Ipsen-Walton Co

▶ ROUTERS, ELECTRIC HOME-CRAFT

Chicago Wheel & Mfg Co
DE WALT INC
Dumore Co
Duro Metal Products Co
Hurricane Machine Works
PORTER-CABLE MACHINE CO
STANLEY ELECTRIC TOOL DIV STANLEY WORKS
Walker-Turner Co Div Kearney & Trecker Co

▶ RULES, BOARD LUMBER-MEN'S

Buck (Frank B) & Co

LUFKIN RULE CO
STANLEY TOOLS DIV STANLEY WORKS

▶ RULES, BOXWOOD

LUFKIN RULE CO

▶ RULES, FOLDING

Dietsgen (Eugene) Co
Eagle Rule Mfg Corp
Economy Novelty & Printing Co
EVANS & CO
Glaxiers' Tool Mfg Co
International Twist Drill Corp
KEUFFEL & ESSER CO
LUFKIN RULE CO
MASTER RULE MFG CO INC
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co
WARREN-KNIGHT CO
Woodmark Industries Inc

▶ RULES, SLIDE

Dietsgen (Eugene) Co
KEUFFEL & ESSER CO
Lawrence Engineering Service
Multi-Aid Computer Corp
Pickett & Eckel
Union Tool Co
WARREN-KNIGHT CO

▶ RULES, STEEL

Brown & Sharpe Mfg Co
CARLSON & SULLIVAN INC
Eagle Rule Mfg Corp
Economy Novelty & Printing Co
EVANS & CO
KEUFFEL & ESSER CO
LUFKIN RULE CO
MASTER RULE MFG CO INC
Millers Falls Co
Or-Wall Tool Co
Roe (Justus) & Sons
Sheed-Brown Mfg Co
STANLEY TOOL DIV STANLEY WORKS
Starrett (L S) Co
Union Tool Co
Woodmark Industries Inc

▶ SAFES, BUILT-IN WALL

Diebold Inc
Dudley Lock Corp
Gabriel Steel Co
Mellink Steel Safe Co
Mosler Safe Co
REMINGTON RAND INC

▶ SALAMANDERS

Aeroll Products Co
American Steel Works
DANIELS (C R) INC
Diner (George W) Mfg Co
Donley Brothers
Jackson Mfg Co
Mohawk Asphalt Heater Co
Ipsen-Walton Co
Unique Mfg Co Inc

▶ SAND, SILICA WHITE

Crystall Silica Co
Tammis Industries Inc

▶ SANDERS, BELT, DRUM, SPINDLE & DISC

AMERICAN FLOOR SURFACING MACHINE CO
ATLAS PRESS CO
Beach Mfg Co
BLACK & DECKER MFG CO
BOICE-CRANE CO
Chicago Pneumatic Tool Co
Curtis Machine Corp
DE WALT INC
Elektron Carlson & Co
HOLT MFG CO
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO
MILWAUKEE ELECTRIC TOOL CORP
Minneapolis Machine & Tool Co
National Air Sander Inc
Newman Brothers Inc
Oliver Machinery Co
PORTER-CABLE MACHINE CO
Reid-Way Inc
ROCKWELL MFG CO DELTA POWER TOOL DIV
Shoemaker Inc
SKIL CORP
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Yates-American Machinery Co

▶ SANDERS, ELECTRIC, PORTABLE

AMERICAN FLOOR SURFACING MACHINE CO
BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
Chicago Pneumatic Tool Co
Clarke Sanding Machine Co
Consolidated Machine & Supply Co
Detroit Surfacing Machine Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

DREMEL MFG CO
General Floor Craft Inc
Hilger Co
INDEPENDENT PNEUMATIC TOOL CO
Jitterbug Sander Co
Kent Co Inc
MALL TOOL CO
Merit Products Inc
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
PITTSBURGH PLATE GLASS CO
Portable Electric Tools Inc
PORTER-CABLE MACHINE CO
RED DEVIL TOOLS
Shopmaster Inc
SKIL CORP
Speedway Mfg Co
STANLEY TOOLS DIV STANLEY WORKS
Sterling Tool Products Co
SYNTRON CO

▶ SANDERS, FLOOR
AMERICAN FLOOR SURFACING MACHINE CO
Atlas Floor Surfacing Machinery Corp
Clarke Sanding Machine Co
Florhoss-Habit Co
General Floor Craft Inc
Hilger Co
HOLT MFG CO
Lincoln-Schlusser Floor Machinery Co Inc
Master Woodworker Mfg Co
RED DEVIL TOOLS
Reid-Way Corp
Shopmaster Inc
SKIL CORP

▶ SASH BALANCES
Acme Sash Balance Co
Air-Tite Window Stay Co
ALLMETAL WATERSTRIP CO
Aluminum Window Corp
CALDWELL MFG CO
Influence Metal Weatherstrip Co
Dorbin Metal Strip Mfg Co
Duplex Inc
Fabry (W H) Mfg Co
Grand Rapids Hardware Co
Ideal Brass Works Inc
Industrial Iron Works
Lefkowitz Specialty Co
MASTER METAL STRIP SERVICE INC
Milwaukee Stamping Co
NATIONAL LOCK CO
Protex Weatherstrip Mfg Co
Pulman Mfg Co
Robbins Mfg Co
Rock Island Millwork Co
Samson Products Co
Schumacher (F E) Co
Star Sash Balance Corp
TURNER & SEYMOUR MFG CO
Unique Balance Co Inc
Waratac Products
WEATHERPROOF PRODUCTS CORP
Western Foundry Co
ZEGER INC

▶ SASH CORD, FIBER
Archer (A W) Co Inc
Cleveland Mill & Power Co
Cupples Co
Frick (J E) Co
Graham (John H) & Co Inc
Granite Cordage Co
Highland Cordage Co
Hoffman Lion Mills Co Inc
Hooper (William E) & Sons Co
Puritan Cordage Mills
Rancher Mfg Co
Rock Island Millwork Co
Rocky Mount Cord Co
SAMSON CORDAGE WKS
Silver Lake Co
Southern Mills Corp
Whittier Mills Co

▶ SASH CORD, WIRE
AMERICAN STEEL & WIRE CO
Bethlehem Steel Co
COLORADO FUEL & IRON CORP
MacWylie Co
Parker (S) Hardware Mfg Corp
Roebbing's (John A) Sons Co
Southern Mills Corp
Upson-Walton Co
WICKWIRE SPENCER STEEL DIV COLORADO FUEL & IRON CORP

▶ SASH & DOOR, CUT STOCK, PONDEROSA
Burke Millwork Co
Hines (Edward) Lumber Co
WEYERHAEUSER SALES CO

▶ SASH, GREENHOUSE
Burke Millwork Co
Cole Mfg Co
Metropolitan Greenhouse Mfg Corp
Morgan Co

▶ SASH HOLDERS
Arrow Mfg Co
CORBIN (P & F) DIV AMERICAN HOWE CORP
Ideal Brass Works
Leidgen Specialty Co

Rockford Sash Holder Inc
Roger Co Inc
Vikre (J N) Co Inc

▶ SAW MILLS, MACHINERY FOR

ALLIS-CHALMERS MFG CO
American Sawmill Machine Co
American Woodworking Machine Co
Chain Belt Co of Milwaukee
Champion Blower & Forge Co
Chase Turbine Mfg Co
Enterprise Co
Farquhar (A B) Co
Hyder Co
Industrial Iron Works
Mitts & Merrill
Tower (E J) Iron Works
Turner Mfg Co

▶ SAW REPAIRS AND ADJUSTMENTS

Atkins (E C) Div Borg Warner Corp
Chattanooga Saw Works
Corley Mfg Co
Cunningham Machinery Corp
DISSTON (HENRY) & SONS INC
Hoe (R) & Co Inc
Huther Brothers Saw Mfg Co Inc
Lippert (E T) Saw Co
Miner (J H) Saw Mfg Co
Miner & Son Saw Works

▶ SAW SETS

Atkins (E C) Div Borg Warner Corp
Beaver Mfg Co
Corley Mfg Co
Disston (Henry) & Sons Inc
Hanchett Mfg Co
Hoe (R) & Co Inc
Huther Brothers Saw Mfg Co Inc
Millers Falls Co
Sandvik Saw & Tool Corp
SIMONDS SAW & STEEL CO
Smith (Seymour) & Son
STANLEY TOOLS DIV STANLEY WORKS
Wardwell Mfg Co
Yates-American Machine Co

▶ SAW SWAGES & SHAPERS

Atkins (E C) Div Borg Warner Corp
Corley Mfg Co
Disston (Henry) & Sons Inc
Hanchett Mfg Co
Huther Brothers Saw Mfg Co Inc
Shopmaster Inc
SIMONDS SAW & STEEL CO
Wardwell Mfg Co

▶ SAWS, BAND

ALLIS-CHALMERS MFG CO
American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
ATLAS PRESS CO
BOICE-CRANE CO
Burton Saw Co
Capewell Mfg Co
Chattanooga Saw Works
C H & E Mfg Co
Consolidated Machinery & Supply Co Ltd
Disston (Henry) & Sons Inc
Duro Metal Products Co
Fay (J A) & Egan Co
FORSBERG MFG CO
Foster Mfg Co
Graham (John H) & Co Inc
HESTON & ANDERSON DIV ST PAUL FOUNDRY & MFG CO
Hoe (R) & Co Inc
Huther Brothers Saw Mfg Co Inc
Lippert (E T) Saw Co
McDonough Mfg Co
Millers Falls Co
Ohlen-Bishop Mfg Co
Oliver Machinery Co
PARKS WOODWORKING MACHINE CO
ROCKWELL MFG CO DELTA POWER TOOL DIV
Shopmaster Inc
SIMONDS SAW & STEEL CO
Southern Saw Works
Starrett (L S) Co
Toolkraft Corp
Walker-Turner Div Kearney & Trecker Corp
Wallace (J D) & Co
Woods (S A) Machine Co
Yates-American Machine Co

▶ SAWS, BENCH

American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
ATLAS PRESS CO
Beach Mfg Co
BOICE-CRANE CO
C H & E Mfg Co
Consolidated Machinery & Supply Co
HESTON & ANDERSON DIV ST PAUL FOUNDRY & MFG CO
Master Woodworker Mfg Co
Oliver Machinery Co
PARKS WOODWORKING MACHINE CO

ROCKWELL MFG CO DELTA POWER TOOL DIV
Rhomanster Inc
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wilson Saw Div Media Machine Works
Yates-American Machine Co

▶ SAWS, BUCKING

Atkins (E C) Div Borg Warner Corp
Cummings Machine Works
Disston (Henry) & Sons
General Steel Warehouse Co Inc Genesco Tool Div
HOMELITE CORP
Lewther (Harry A) Co
MALL TOOL CO
Mill & Mine Supply Co
Ohlen-Bishop Co
Sandvik Saw & Tool Corp
SIMONDS SAW & STEEL CO

▶ SAWS, CHAIN, TREE FELLING & BUCKING, POWERED

Atkins (E C) Div Borg Warner Corp
Cummings Machine Works
Disston (Henry) & Sons Inc
General Steel Warehouse Co Genesco Tool Div
Hansen Machinery & Supply Co
HOMELITE CORP
Jacques Power Saw Co
Lombard Governor Corp
Lewther (Harry A) Co
MALL TOOL CO
Mill & Mine Supply Inc
Oltans Mfg Co
PORTER CABLE MACHINE CO
Reed-Prentice Corp
Vulcan Iron Works Co
Witte Engine Works Div Oil Well Supply Co

▶ SAWS, CHAMFERING

Atkins (E C) Div Borg Warner Corp
DE WALT INC
Huther Brothers Saw Mfg Co
SIMONDS SAW & STEEL CO

▶ SAWS, CIRCULAR DADO

American Saw Mill Machinery Co
American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
ATLAS PRESS CO
Beach Mfg Co
BOICE-CRANE CO
Chattanooga Saw Works
DEWALT INC
Disston (Henry) & Sons Inc
Fay (J A) & Egan Co
Hoe (R) & Co
Huther Brothers Saw Mfg Co
MALL TOOL CO
Master-Taper Co
Master Woodworker Mfg Co
Media Machine Works Inc
Ohlen-Bishop Mfg Co
PORTER CABLE MACHINE CO
ST PAUL FOUNDRY & MFG CO
Shopmaster Inc
SIMONDS SAW & STEEL CO
Syracuse Alloy Metals Corp
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wilson Saw Div Media Machine Works
Yates-American Machine Co

▶ SAWS, CIRCULAR, INSERTED TOOTH

American Saw Mill Machinery Co
American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
Chattanooga Saw Works
Corley Mfg Co
DE WALT INC
Disston (Henry) & Sons Inc
Hoe (R) & Co
Huther Brothers Saw Mfg Co
Lippert (E T) Saw Co
Master Woodworker Mfg Co
Miner (J H) Saw Mfg Co
Miner & Son Saw Works
Ohlen-Bishop Co
PORTER CABLE MACHINE CO
SIMONDS SAW & STEEL CO
Wheland Co
Yates-American Machine Co

▶ SAWS, CIRCULAR, SOLID TOOTH

Albertson & Co Inc
American Saw Mill Machinery Co
American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
Ohlen-Bishop Co
BOICE-CRANE CO
Chattanooga Saw Works
C H & E Mfg Co

Consolidated Machinery & Supply Co Ltd
Corley Mfg Co
DEWALT INC
Disston (Henry) & Sons Inc
Filer & Stowell Co
Hoe (R) & Co Inc
Holmes (E & B) Machinery Co Inc
Hutchinson Mfg Co
Huther Brothers Saw Mfg Co
Lippert (E T) Saw Co
Lippman Engineering Works
MALL TOOL CO
Master Woodworker Mfg Co
Media Machine Works Inc
Miner (J H) Saw Mfg Co
Miner & Son Saw Works
Ohlen-Bishop Co
PARKS WOODWORKING MACHINE CO
Power (L) & Co
PTI Inc
ROCKWELL MFG CO DELTA POWER TOOL DIV
ST PAUL FOUNDRY & MFG CO
Sandvik Saw & Tool Corp
Shopmaster Inc
SIMONDS SAW & STEEL CO
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wheland Co
Wilson Saw Div Media Machine Works
Yates-American Machine Co

▶ SAWS, CUTOFF, POWERED

American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
Beach Mfg Co
BOICE-CRANE CO
Chattanooga Saw Works
C H & E Mfg Co
C K L Machinery Co
Consolidated Machinery & Supply Co
Corinth Machinery Co
Corley Mfg Co
DEWALT INC
Disston (Henry) & Sons Inc
Ennis Supply Co
Fay (J A) & Egan Co
FORSBERG MFG CO
Frick Co
HESTON & ANDERSON DIV ST PAUL FOUNDRY & MFG CO
Hoe (R) & Co
Holmes (E & B) Machinery Co Inc
Huther Brothers Saw Mfg Co
Lippert (E T) Saw Co
Master Woodworker Mfg Co
Mattison Machine Works
Media Machine Works Inc
Ohlen-Bishop Co
Oliver Machinery Co
Porter (C O) Machinery Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
ST PAUL FOUNDRY & MFG CO
Sandvik Saw & Tool Corp
Shopmaster Inc
SIMONDS SAW & STEEL CO
Stetson-Ross Machine Co
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wilson Saw Div Media Machine Works
Woods (S A) Machine Co
Yates-American Machine Co

▶ SAWS, FOLDING

Goldblatt Tool Co

▶ SAWS, FOLDING

Goldblatt Tool Co

▶ SAWS, GROOVING

American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
Beach Mfg Co
Chattanooga Saw Works
DEWALT INC
Disston (Henry) & Sons Inc
Fay (J A) & Egan Co
Hoe (R) & Co
Huther Brothers Saw Mfg Co
Master Woodworker Mfg Co
Misenner Mfg Co
Ohlen-Bishop Co
Shopmaster Inc
SIMONDS SAW & STEEL CO
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) Mfg Co
Wilson Saw Div Media Machine Works
Woods (S A) Machine Co
Yates-American Machine Co

▶ SAWS, HACK

Atkins (E C) Div Borg Warner Corp
Bridgeport Hardware Mfg Corp
Clemson Brothers Inc
Consolidated Tool Works
Crescent Tool Co
Disston (Henry) & Sons Inc
FORSBERG MFG CO
Graham (John H) & Co
K B Mfg Co
Lipe-Rollway Corp
Mephisto Tool Co
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
Parker Mfg Co
Proto Tool Co
SIMONDS SAW & STEEL CO
Syracuse Alloy Metals Corp
Starrett (L S) Co
TRI-SAW CORP
Union Mfg & Gauge Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

United Wire Goods Mfg Co Inc
Victor Saw Works Inc
Wilson Hardware Mfg Co

SAWS, HAND

Allway Mfg Co
American Saw & Mfg Co
Atkins (E C) Div Borg Warner Corp
Capewell Mfg Co
Disston (Henry) & Sons Inc
Goldblatt Tool Co
Graham (John H) & Co
Ohlen-Bishop Mfg Co
Pennsylvania Saw Corp
Sandvik Saw & Tool Corp

SAWS, HOLE

BLACK & DECKER MFG CO
Circo Tool Co
Disston (Henry) & Sons Inc
Millers Falls Co
Misenar Mfg Co

SAWS, JIG, POWERED

ATLAS PRESS CO
Beach Mfg Co
BLACK & DECKER MFG CO
BOICE-CRANE CO
DE WALT INC
DISSTON (HENRY) & SONS INC
DREMEL MFG CO
Oliver Machinery Co
Shopmaster Inc
Walker-Turner Co Div Kearney & Trecker Corp

SAWS, MITER

American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
BOICE-CRANE CO
DE WALT INC
Disston (Henry) & Sons Inc
Hoe (R) & Co
Huther Brothers Saw Mfg Co
Master Woodworker Mfg Co
MILWAUKEE ELECTRIC TOOL CORP
Ohlen-Bishop Co
PORTER-CABLE MACHINE CO
Shopmaster Inc
SIMONDS SAW & STEEL CO
STANLEY TOOLS DIV STANLEY WORKS
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wilson Saw Div Media Machine Works

SAWS, MULEY

Atkins (E C) Div Borg Warner Corp
Ohlen-Bishop Co

SAWS, PORTABLE ELECTRIC

AMERICAN FLOOR SURFACING MACHINE CO
American Woodworking Machine Co
Atkins (E C) Div Borg Warner Corp
Beach Mfg Co
BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
Chicago Pneumatic Tool Co
Consolidated Machinery & Supply Co Ltd
CUMMINS-CHICAGO CORP CUMMINS PORTABLE TOOLS DIV
DEWALT INC
DREMEL MFG CO
FORSBERG MFG CO
HESTON & ANDERSON
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO
Master Woodworker Mfg Co
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CO
Portable Electric Tools
PORTER-CABLE MACHINE CO
R C S TOOL SALES CORP
Reed-Prentice Corp
SKIL CORP
Speed-Way Mfg Co
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
SYNTRON CO
TRI-SAW CORP
U S Electrical Tool Co
Van Dorn Electric Tool Co
Vulcan Iron Works Co
Wallace (J D) & Co

SAWS, RADIAL

American Woodworking Machine Co
Beach Mfg Co
Consolidated Machinery & Supply Co
CONSTRUCTION MACHINERY CO
CUMMINS-CHICAGO CORP CUMMINS PORTABLE TOOLS DIV
DEWALT INC
Flexsaw Co
Hendrick (R W) Co
Master Woodworker Mfg Co
PORTER-CABLE MACHINE CO
Red Star Products Inc
ROCKWELL MFG CO DELTA POWER TOOL DIV
Shopmaster Inc
SKIL CORP
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
Wilson Saw Div Media Machine Works

SAWS, RIP

Atkins (E C) Div Borg Warner Corp
Beach Mfg Co
Chattanooga Saw Works
C H & E Mfg Co
Consolidated Machinery & Supply Co
Corley Mfg Co
Dependable Machine Co
DEWALT INC
Disston (Henry) & Sons Inc
Fay (J A) & Egan Co
Forsberg Mfg Co
Greenlee Tool Co
Hoe (R) & Co
Huther Brothers Saw Mfg Co
Master Woodworker Mfg Co
Newman Machine Co
Oliver Machinery Co
Shopmaster Inc
SIMONDS SAW & STEEL CO
Wallace (J D) & Co
Wilson Saw Div Media Machine Works
Yates-American Machine Co

SAWS, SCROLL

ROCKWELL MFG CO DELTA POWER TOOL DIV
Shopmaster Inc

SAWS, SWING

American Woodworking Machine Co
Beach Mfg Co
C H & E Mfg Co
Consolidated Machinery & Supply Co
Corinth Machinery Co
Corley Mfg Co
Disston (Henry) & Sons Inc
Fay (J A) & Egan Co
Filer & Stowell Co
HESTON & ANDERSON DIV ST PAUL
FOUNDRY & MFG CO
Hoe (R) & Co Inc
Holmes (E & B) Machinery Co Inc
Lane Mfg Co
Master Woodworker Mfg Co
Newman Machine Co
Ohlen-Bishop Co
Oliver Machinery Co
Shopmaster Inc
Tannewitz Works
Woods (S A) Machine Co
Yates-American Machine Co

SAWS, TILTING ARBOR TABLE

American Woodworking Machine Co
ATLAS PRESS CO
Beach Mfg Co
BOICE-CRANE CO
C H & E Mfg Co
Consolidated Machinery & Supply Co
DEWALT INC
Ennis Supply Co
Fay (J A) & Egan Co
Greenlee Tool Co
Master Woodworker Mfg Co
NEWMAN MFG CO
DELTA POWER TOOL DIV
ST PAUL FOUNDRY & MFG CO
Shopmaster Inc
Walker-Turner Co Div Kearney & Trecker Corp
Wallace (J D) & Co
WHITNEY (BAXTER D) & SON INC
Yates-American Machine Co

SAWS & CUTTING WHEELS MASONRY

Atkins (E C) Div Borg Warner Corp
Champion Mfg Co
CLIPPER MFG CO
CONSTRUCTION MACHINERY SALES CO
Ennis Supply Co
EVANS (ROBERT G) CO
EVEREADY BRIKSHAW CO
Martin Fireproofing Co
Master Woodworker Mfg Co
PORTER-CABLE MACHINE CO
Stone Machinery Co Inc

SCAFFOLDING, SCAFFOLDS, AND BRACKETS

Ame Scaffold Co Inc
Advance Equipment Mfg Co
Ajax Building Bracket Co
American Ladder Co
Amidon Sales Co
Anderson (John E) Co
Babeek (W W) Co
Baker-Ross Inc
Bauer Mfg Co
Berg (John) Mfg Co
BIL-JAX CO
Brever Brothers Whiting & Co
Caster Mold & Machine Co
Clark (J R) Co
Conner Steel & Wire Co
Du-All Scaffold Bracket Co
Fischer Bracket Co
Flint (A W) Co
Gabriel Steel Co

Goldblatt Tool Co
Goshen Mfg Co
Haisama (F) Adjustable Scaffold Bracket Co
Holland Ladder & Mfg Co
Lewis-Skinner Co
Marvel Equipment
Michigan Ladder Co
Moulton Ladder Mfg Co
Newark Ladder & Bracket Co
PATENT SCAFFOLDING CO INC
PITTSBURGH PLATE GLASS CO
Reliable Jack Co
Rich Ladder & Mfg Co
SAFWAY STEEL PRODUCTS INC
STEADFAST EQUIPMENT CO
STEEL SCAFFOLDING CO INC
Tilley (John S) Ladders Co Inc
Universal Manufacturing Corp
WAGNER MFG CO
Wilson-Albrecht Co
Woodenware Products Corp

SCALES, PLATFORM, PORTABLE

American Scale Co
Detecto Scales Inc Div Jacobs Brothers Co
Fairbanks Morse & Co
Hanson Scale Co
Howe Scale Co
Johnson (C S) Co
Toledo Scale Co

SCRAPERS, FLOOR

Fletcher Terry Co
Heller Brothers Co
HOLT MFG CO
Hook Scraper Mfg Co
Millers Falls Co
RED DEVIL TOOLS
STANLEY TOOL DIV STANLEY WORKS
Starrett (L S) Co

SCRAPERS, FOOT

Deastar Iron & Steel Co
Ereo Mfg Co
Grey Iron Casting Co
Lawrence Brothers
RICHARDS-WILCOX MFG CO
Standard Bronze Co

SCRAPERS, PAINT

Bridgeport Hardware Mfg Corp
Clarke Sanding Machine Co
Fletcher Terry Co
Heller Brothers Co
Hook Scraper Mfg Co
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
STANLEY TOOLS DIV STANLEY WORKS

SCRAPERS, POWERED

ALLIS-CHALMERS MFG CO
BUCYRUS-ERIE CO
Caterpillar Tractor Co
Cummins Engine Co Inc
WHITNEY (BAXTER D) & SONS INC

SCRAPERS, WOOD

Atkins (E C) Div Borg Warner Corp
Black Panther Tool Co
Disston (Henry) & Sons Inc
Fletcher Terry Co
Glaziers' Tool Mfg Corp
Heller Brothers Co
Lamson & Goodnow Mfg Co
Millers Falls Co
RED DEVIL TOOLS
Sandvik Saw & Tool Corp
Warner Mfg Co

SCREDS, METAL BASE

Alabama Metal Lath Co
Allen Steel Products
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
GETTY (H S) & CO INC
INLAND STEEL PRODUCTS CO
Knapp Brothers Mfg Co
NATIONAL GYPSUM CO
PENN METAL CO INC
Richmond Screw Anchor Co Inc
TRUSCON STEEL CO
U S GYPSUM CO
Wheeling Corrugating Co

SCREEN WIRE STRETCHERS

FASTENER CORP
Markwell Mfg Co

SCREENING, INSECT WIRE

Ace Window Screen Co of America
Aluminum Co of America
American Brass Co
American Wire Fabrics Corp
Cambridge Wire Cloth Co
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Clark Wire & Supply Co
Clinton Wire Cloth Co

CURTIS COS INC
Cyclone Fence Div American Steel & Wire Co
Driver-Harris Co
Gilbert & Bennett Mfg Co
Hanover Wire Cloth Div Continental United Industries Co Inc
Hellig Brothers Co
Jolliff (C O) Mfg Corp
KAISER ALUMINUM & CHEMICAL SALES
KEYSTONE STEEL & WIRE CO
KEYSTONE WIRE CLOTH CO
Newark Wire Cloth Co
NEW YORK WIRE CLOTH CO
NICHOLS WIRE & ALUMINUM CO
Orange Screen Co
Pacific Wire Products Co
Penwoven Inc
Pomat Wire Cloth Co Inc
Reynolds Wire Co
Roehling's (John A) Sons Co
Sereens and Fabricated Metals Co
Seneca Wire & Mfg Co
Smith (F P) Wire & Iron Works
Spargo Wire Co
Standard Wire Cloth & Screen Co
Valentine Equipment Co
Vimeat Sales Co
Warp Brothers
Wickwire Brothers Inc
WICKWIRE SPENCER STEEL DIV COLO-RADO FUEL & IRON CORP
Wilson (L S) Mfg Co

SCREENING, PLASTIC, WIRE REINFORCED

Celanese Corp of America Plastics Div
Dow Chemical Co
Firestone Industrial Products Div Firestone Tire & Rubber Co
LUMITE DIV CHICOPEE MILLS INC
Plastic Woven Products
Seneca Wire & Mfg Co
SUPERIOR FIREPLACE CO
Swift Mfg Co
Warp Brothers

SCREENS, CHIMNEY

Donley Brothers

SCREENS, TENSION

Columbia Mills Inc
KEYSTONE WIRE CLOTH CO
Loebhart Mfg Corp
NEW YORK WIRE CLOTH CO
RUDIGER-LANG CO
Rutzke Weatherstrip Mfg Co

SCREWDRIVERS

Barcalo Mfg Co
BLACK & DECKER MFG CO
Bridgeport Hardware Mfg Corp
Crescent Tool Co
Damascus Steel Products Corp
Disston (Henry) & Sons Inc
Fairmount Tool & Forging Co
FORSBERG MFG CO
Fuller Tool Co
Glaziers' Tool Mfg Corp
Greenlee Tool Co
MALL TOOL CO
Mayhew Steel Products Inc
Mephisto Tool Co
Millers Falls Co
North Brothers Mfg Co
Owatonna Tool Co
Or-Wall Tool Co
Parker Mfg Co
P & C Hand Forged Tool Co
Peck Stow & Wilcox Co
Proton Tool Co
Rainey-Tools
Reed & Prince Mfg Co
Rugel Co
SKIL CORP
Slaymaker Tool Co
STANLEY TOOLS DIV STANLEY WORKS
Tuck Mfg Co
Union Hardware Co
United Wire Goods Mfg Co
Vtech Tool Co
Wilde Drop Forge & Tool Co

SCREWDRIVERS, PORTABLE, ELECTRIC

BLACK & DECKER MFG CO
Chicago Pneumatic Tool Co
Glaziers' Tool Mfg Co
INDEPENDENT PNEUMATIC TOOL CO
Ingersoll-Rand Co
MALL TOOL CO
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
SYNTRON CO
U S Electrical Tool Co

SCREWDRIVERS, RATCHET

American Swiss File & Tool Co
Greenlee Tool Co
Kipton Industries
Millers Falls Co
North Brothers Mfg Co Div Stanley Tools
Or-Wall Tool Co
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

► SCREWS

Alex Hardware Mfg Corp
American Screw Co
Atlantic Screw Works
Atlas Bolt & Screw Co
Braun (J G) Co
Bridgeport Brass Co
CHASE BRASS & COPPER CO
Clark Brothers Bolt Co
Continental Screw Co
EAGLE LOCK CO
Eloco Tool & Screw Corp
General Steel Warehouse Co Gunco Tool Div
INDEPENDENT NAIL & PACKING CO
Lamson & Sessions Co
National Guard Products Inc
NATIONAL LOCK CO
National Screw & Mfg Co
PAINE COMPANY
Parker (S) Hardware Mfg Corp
Phenol Mfg Co
Rockford Screw Products Co
St Louis Screw & Bolt Co
Southern Screw Company
Southington Hardware Mfg Co
Stronghold Screw Products Inc
United Screw & Bolt Corp

**► SEALERS, SYNTHETIC RESIN
MONSANTO CHEMICAL CO WESTERN DIV****► SEPTIC TANK FERMENTATION
COMPOUNDS**

Thomas Sanitary Products Co

► SEWER JOINT COMPOUNDS

American Vitified Products Co
Anti-Hydro Waterproofing Co
FLINTKOTE CO
JOHNS-MANVILLE CORP
Nukem Products Corp
Reilly Tar & Chemical Corp
Robinson Clay Product Co
Universal Sewer Pipe Corp

► SHADES, PORCH

Aeroshade Co
ROUGH SHADE CORP
Shirwood Curtain Co
Warren Shade Co

► SHADES, WINDOW

Aeroshade Co
Bailey & Weston Inc
Billis Venetian Blind Co
Breuneman (Charles W) Co
Clapay Corp
Columbia Mills Inc
Columbus Coated Fabrics Corp
DuPont de Nemours (E I) & Co Inc
Harrison (F S) Co
Hartsborn (Stewart) Co
ROUGH SHADE CORP
Kane Mfg Corp
Volker (William) & Co

► SHAFTS, FLEXIBLE

MALL TOOL CO
Walker-Turner Co Div Kearney & Trecker Corp

► SHAKES, CEDAR, STAINED

Butler-McDonnell Mfg Co Ltd
Canadian Forest Products Ltd Hunting-Mer-
rit Shingle Div
Capitano Shingle Co Ltd
Colonial Cedar Co
CRED-DIPT CO INC
Everett Shingle & Shake Co
Jamison Lumber & Shingle Co
McNair (Robert) Shingle Co Ltd
Olympic Stained Products Co
PERMA-PRODUCTS CO
Portland Shingle Co
Preservative Paint Co
Smith (M R) Lumber & Shingle Co
West Coast Stained Shingle Co
WEYERHAEUSER SALES CO

► SHAMPOO, SPRAY

T & S Brass & Bronze Works Inc

► SHAPERS

ATLAS PRESS CO
BOICE CRANE CO
PORTER CABLE MACHINE CO
**ROCKWELL MFG CO DELTA POWER TOOL
DIV**
Wallace (J D) & Co
WHITNEY (BAXTER D) & SONS INC

► SHARPENERS, KNIFE

Atkins (E C) Div Borg Warner Corp
BEHR-MANNING CORP DIV NORTON CO
Bridgeport Safety Emery Wheel Co Inc
Dazey Corp
Dependable Machine Co Inc
Eloco Products Co
MALL TOOL CO
National Sewing Machine Co
New England Carbide Tool Co Inc
**SIMONDS ABRASIVE CO DIV SIMONDS
SAW & STEEL CO**

► SHARPENERS, SAW

Atkins (E C) Div Borg Warner Corp
Beamer Mfg Co
BELSAW MACHINE CO
Chattanooga Saw Works
Disston (Henry) & Sons Inc
FOLEY MFG CO
Hanchett Mfg Co
Huther Brothers Saw Mfg Co Inc
MALL TOOL CO
Oliver Machinery Co
Frescott Co
Reed-Prentice Corp
Treyco Products
Wardwell Mfg Co
Yates-American Machine Co

**► SHEARS, METAL CUTTING,
ELECTRIC**

BLACK & DECKER MFG CO

**► SHEATHING, ASBESTOS
CEMENT**

Asbestos Asphalt & Insulation Inc
Badger Corrugating Co
CAREY (PHILIP) MFG CO
Davis Plywood Corp
FLINTKOTE CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
NATIONAL GYPSUM CO
RUBEROID CO
Standard Asbestos Mfg Co

**► SHEATHING, BOARD,
ASPHALT, RIGID**

Air-O-Cel Co
**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
BIRD & SON
CAREY (PHILIP) MFG CO
CELTEX CORP
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
**INSULITE DIV MINNESOTA & ONTARIO
PAPER CO**
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Logan-Long Co
Meadows (W R) Inc
NATIONAL MFG CORP
Nelson (B F) Mfg Co
Plastergen Wall Board Co
Protective Papers Inc
Ruberoid Co
U S GYPSUM CO

► SHEATHING, BOARD, FIBER

**ARMSTRONG CORK CO BUILDING MATERI-
ALS DIV**
CAREY (PHILIP) MFG CO
CELTEX CORP
Pir-Tex Insulating Board Co
FLINTKOTE CO
HOMASOTE CO
**INSULITE DIV MINNESOTA & ONTARIO
PAPER CO**
JOHNS-MANVILLE CORP
NATIONAL GYPSUM CO
Plastergen Wall Board Co
Simpson Logging Co
U S GYPSUM CO
UPSON CO
WOOD CONVERSION CO

► SHEATHING, GYPSUM

Angler Corp
Blue Diamond Corp
CELTEX CORP
CERTAIN-TEED PRODUCTS CORP
Grand Rapids Plaster Co
NATIONAL GYPSUM CO
Pabco Products Inc
Pacific Portland Cement Co
Schumacher Wall Board Corp
U S GYPSUM CO

**► SHEATHING, INSULATING
BOARD, TREATED**

Air-O-Cel Co
ARMSTRONG CORK CO
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELTEX CORP
CONNOR LUMBER & LAND CO
CRED-DIPT CO INC
FLINTKOTE CO
HOMASOTE CO
**INSULITE DIV MINNESOTA & ONTARIO
PAPER CO**
JOHNS-MANVILLE CORP
Keystone Asphalt Products Co
Meadows (W R) Inc
NATIONAL GYPSUM CO
Plastergen Wall Board Co
Protective Papers Inc
Simpson Logging Co
U S GYPSUM CO
U S Mengel Plywoods Inc

**U S PLYWOOD CORP
WOOD CONVERSION CO****► SHEETS, ALUMINUM,
CORRUGATED**

Aluminum Co of America
CECO STEEL PRODUCTS CORP
Cupples Co
New Holland Metals Co
REYNOLDS METALS CO
Southern States Iron Roofing Co

► SHEETS, ALUMINUM, FLAT

Aluminum Co of America
Brasco Mfg Co
CECO STEEL PRODUCTS CORP
Compo-Miracis Products Co
Cupples Co
KAISER ALUMINUM & CHEMICAL SALES
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
**REYNOLDS METALS CO BUILDING PROD-
UCTS DIV**
Southern States Iron Roofing Co

► SHEETS, BLACK

Badger Corrugating Co
CECO STEEL PRODUCTS CORP
Continental Steel Corp
INLAND STEEL PRODUCTS CO
REPUBLIC STEEL CORP
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co

**► SHEETS, IRON & STEEL,
GALVANIZED**

Allegheny Ludlum Steel Co
Arco Drainage & Metal Products Inc
Badger Corrugating Co
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Cincinnati Sheet Metal & Roofing Co
Continental Steel Corp
Deatur Iron & Steel Co
Gary-Flower Steel Co
INLAND STEEL PRODUCTS CO
Inland Steel Co
International Steel Co
Klauer Mfg Co
Mid-States Steel & Wire Co
New Holland Metals Co
REPUBLIC STEEL CORP
Ryerson (Joseph T) & Son Inc
ST PAUL CORRUGATING CO
Sheffield Steel Corp
Soule Steel Co
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co
Youngtown Sheet & Tube Co

► SHEETS, PLASTIC

Aetna Plywood & Veneer Co
ARBORITE CO LTD
Consolidated Water Power & Paper Co
Continental Can Co
DAVIES (J A) & CO
FORMICA CO
GENERAL ELECTRIC CO
HASKELITE MFG CORP
NATIONAL PLASTIC PRODUCTS CO
Ohio Rubber Co
Panelyte Div St Regis Sales Corp
RODDIS PLYWOOD CORP
Rohm & Haas Co
U S PLYWOOD CORP
WESTINGHOUSE ELECTRIC & MFG CO
WOODALL INDUSTRIES

**► SHEETS, STEEL,
CORRUGATED**

Arco Steel Corp
Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Cheney Industries Co
Cincinnati Sheet Metal & Roofing Co
Continental Steel Corp
Deatur Iron & Steel Co
Granite City Steel Co
INLAND STEEL PRODUCTS CO
International Steel Co
New Holland Metals Co
REPUBLIC STEEL CORP
Revere Copper & Brass Inc
ST PAUL CORRUGATING CO
Soule Steel Co
Southern States Iron Roofing Co
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co
Youngtown Sheet & Tube Co

**► SHELVES, REVOLVING
CABINET**

Ames (W R) Co
CARR ADAMS & COLLIER CO

Lyon Metal Products Inc
MULLINS MFG CORP
WASHINGTON STEEL PRODUCTS INC

**► SHELVING, ADJUSTABLE
SHELF**

Adams Co
Busch (A G) & Co Inc
Heller (W C) & Co
Johnwood Co
Knappe & Vogt Mfg Co
WACKLANDER-DUNCAN CO
STANDARD STEEL WORKS

► SHELVING, GLASS

American Window Glass Co
Cadillac Glass Co
Columbia Metal Box Co
Heller (W C) & Co
LIBBEY-OWENS-FORD GLASS CO
PITTSBURGH PLATE GLASS CO
Raulander & Sons Inc
Warren (J D) Mfg Co

► SHELVING, PREFABRICATED

Ames (W R) Co
Hines (Edward) Lumber Co
STANDARD STEEL WORKS

► SHELVING, WOOD

Adelphian Mill
Carr & Mehl Co
Cole Mfg Co
CURTIS COS INC
Engineers Plywood Products Co
Frick-Gallagher Mfg Co
Heller (W C) & Co
Hines (Edward) Lumber Co
Kinross Fine Mills Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Mauk-Seattle Lumber Co
WEYERHAEUSER SALES CO
Willamette Valley Lumber Co
Wilmac Metal Products

► SHIELDS, EXPANSION BOLT

Arro Expansion Bolt Co
Chicago Expansion Bolt Co
**CORBIN (P & F) DIV AMERICAN HARD-
WARE CORP**
Diamond Expansion Bolt Co
Holub Industries Inc
PAINE CO
Polis (J D) Mfg Co
Star Expansion Products Co Inc

► SHIELDS, TERMITE

Illinois Zinc Co
Potts-Farrington Co
SISALKRAFT CO
TIMBER ENGINEERING CO

**► SHINGLES, ASBESTOS-
CEMENT**

Asbestos Corporation
ASBESTOS CO OF TEXAS
**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
FLINTKOTE CO
JOHNS-MANVILLE CORP
KEASBEY & MATTISON CO
NOVA SALES INC
Pabco Products Inc
RUBEROID CO
Smith Asbestos Products Inc
Supradur Corp
U S GYPSUM CO

► SHINGLES, ASPHALT

AMERICAN ASPHALT ROOF CORP
**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
BIRD & SON INC
CAREY (PHILIP) MFG CO
CELTEX CORP
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
Ford Roofing Products Co
Globe Roofing Products Co Inc
Gold Seal Roofing Co
JOHNS-MANVILLE CORP
Lehon Co
Logan-Long Co
Nelson (B F) Mfg Co
Pabco Products Inc
RUBEROID CO
Tamko Asphalt Products Inc
TEXAS CO
U S GYPSUM CO

► SHINGLES, CEDAR, RED

Acme Shingle Co Ltd
Agnew Lumber Co
Aloha Lumber Co
AMERICAN STAINED SHINGLE CO
Arch Cape Shingle Co
Ayres & Bowen Shingles
Bestwood Cedar Shingle Co Ltd
Bielman-Menke Shingle Co
Bloedel Stewart & Welch Ltd
B L Shingle Co
Bridal Falls Shingle Co
British Columbia Forest Products Ltd

Manufacturers' Names and Addresses Start on Page D-61
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Butler-McDonnell Mfg Co Ltd
Canadian Forest Products Ltd Hunting Mer-
rit Shingle Co
Canadian Western Lumber Co Ltd
Capilano Shingle Co Ltd
Cascade Pacific Lumber Co
Chew (Joseph) Shingle Co Ltd
Clearwater Shingle Co
Coats (A F) Lumber Co
Colonial Cedar Co
Columbia Valley Lumber Co
CONNOR LUMBER & LAND CO
Cook County Lumber Co
CREO-DIPT CO INC
Crescent Shingle Co
Decker (A R) Shingle Co
DeWitt Shingle Co Ltd
Douglas Fir Wholesalers Inc
Eatonville Lumber Co
Far West Shingle Co
Fluhner Brothers
Fowler Shingle Co
GEORGIA-PACIFIC PLYWOOD CO
Grandy Lake Shingle Co
Gray Lumber & Shingle Co
Gray (Robert) Cedar Lumber Co Inc
Hagin Shingle Co
Hammerquist Shingle Co
Hammond Cedar Co Ltd
Hardman Mfg Co
Hines (Edward) Lumber Co
Homalke Logging Co Ltd
Horne Brothers Shingle Co Ltd
Horton Cedar Mfg Co Ltd
Hulbert (William) Mill Co
Huntington Shingle Co
Idanha Shingle Co
Jamison Lumber & Shingle Co
Kirkpatrick (Thomas) Estate
LaConner Shingle Co
Lake Shannon Timber Co
Leybold-Smith Shingle Co
LONG-BELL LUMBER CO
Longlyfe Shingle Co
Longview Shingle Co
Mackie Mill Co
Marona Mill Co
Mauk-Seattle Lumber Co
McCartier Shingle Co Ltd
McNair (Robert) Shingle Co Ltd
Midwest Jobbers Inc
Miller (E C) Cedar Lumber Co
Monroe Shingle Co
Mt Pleasant Shingle Co
Mt View Shingle Co
Newberg Shingle Co
Northwest Cedar Products Ltd
Olympia Shingle Co
Olympic Stained Products Co
Pacific Timber Co
Packwood Shingle Co
PERMA PRODUCTS CO
Peters Shingle Co
Phoenix Shingle Co
Portland Shingle Co
Quality Shingle Co
Rainier Mill Co
Randle Shingle Co
Riverside Shingle Mills Ltd
Roseburg Shingle Co
Rosser Brothers
Rose Shingle Co
R & R Shingle Mfg Co
Saginaw Shingle Co
Schafer Brothers Lumber & Shingle Co
Seattle Cedar Lumber Mfg Co
Skalley-Segriff Shingle Co
Smith (M R) Lumber & Shingle Co
Sound Shingle Co
Standard Shingle Co
Stare Lake Cedar Ltd
Super Shingle Co
Thurston-Flavelle Ltd
Toutle River Shingle Co
Twin City Shingle Co
Twin Harbors Lumber Co
Wallace Lumber & Mfg Co
Warrenton Shingle Co
Washington Shingle Co
WEYERHAEUSER SALES CO
White Creek Shingle Co
Willapa Shingle Co
Woods Creek Shingle Co

► SHINGLES, CEDAR, RED, STAINED

American Stained Shingle Co
Canadian Forest Products Ltd Hunting-Mer-
rit Shingle Div
Capilano Shingle Co Ltd
Colonial Cedar Co
CREO-DIPT CO INC
Dyke Brothers
Everett Shingle & Shake Co
GEORGIA-PACIFIC PLYWOOD CO
Jamison Lumber & Shingle Co
Kendall Lumber Corp
Lion Shingle Co
LONG-BELL LUMBER CO
Mauk-Seattle Lumber Co
McNair (Robert) Shingle Co Ltd
Olympic Stained Products Co
PERMA-PRODUCTS CO
Portland Shingle Co
Preservative Paint Co
Smith (M R) Lumber & Shingle Co
Weatherbest Corp
West Coast Stained Shingle Co
WEYERHAEUSER SALES CO
Wood Beautifiers

► SHINGLES, REDWOOD

Union Lumber Co

► SHINGLES, STEEL GALVANIZED

Badger Corrugating Co
BERGER MFG CO DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
Cincinnati Sheet Metal & Roofing Co
Clark-Babbitt Industries Inc
Edwards Mfg Co
Gary-Pioneer Steel Corp
INLAND STEEL PRODUCTS CO
La Crosse Steel Roofing & Corrugating Co
Mid-States Steel & Wire Co
Northwest Metal Products Inc
Southern States Iron Roofing Co
Wheeling Corrugating Co

► SHORES, SAFETY SYMONS CLAMP & MFG CO

► SHORING, CONCRETE SOFFIT FLOOR BLOCK

BESSER MFG CO

► SHOWER BATH CABINETS

Allen Steel Products
AMERICAN SHOWER DOOR CO INC
BINSWANGER & CO
Closs (James B) & Sons
CRANE COMPANY
Durst Mfg Co
ELIER CO
FIAT METAL MFG CO
Glauber Brass
Harrison Steel Cabinet Co
Ingram-Richardson Mfg Co
Kraus (Walter S) Co
Milwaukee Stamping Co
National Metal-Art Mfg Co
Northwest Metal Products Inc
O'Morrow (W M) & Co
Peerless Steel Equipment Co
Pioneer Co
PITTSBURGH PLATE GLASS CO
Coe
Republic Brass Co
St Charles Mfg Co
Seovill Mfg Co
Shower Door Co of America
Speakman Co
Standard Building Products Co
Standard Steel Cabinet Co
Steel Partitions Inc
Telfone Co
Weis (Henry) Mfg Co Inc

► SHUTTERS, METAL

AIR CONTROL PRODUCTS INC
Allen Steel Products Inc
Astrup Co
FAWCO MFG DIV FALLS STAMPING & WELDING CO
Fries & Son Steel Construction & Engineering Co
SHEPLER MFG CO
Trussbill Div Siems Bros Inc
United Metal Products Inc

► SHUTTERS, WOOD

Adelphian Mills
Astrup Co
CARR ADAMS & COLLIER CO
Central Division Co
Cole Mfg Co
CURTIS COMPANIES INC
Farley & Loetscher Mfg Co
GREGG & SON INC
Heinley's Movable Shutters
Hines (Edward) Lumber Co
Huttig Mfg Co
Huttig Sash & Door Co
Marquart Millwork Co
Morpan Co
Quigley (J R) Co
Roach & Musser Co
Rock Island Millwork Co
Silerest Co.

► SIDING, ALUMINUM

Also Inc
Alside Inc
Aluminum Co of America
Compo-Miracle Products Co
KAISER ALUMINUM & CHEMICAL CORP
Lifetime Industries
New Holland Metals Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Southern States Iron Roofing Co

► SIDING, ALUMINUM CLAP-BOARD

Childers Mfg Co
KAISER ALUMINUM & CHEMICAL SALES CORP
KAWNEER CO
New Holland Metals Co
Potts-Farrington Co

► SIDING, ASBESTOS CEMENT

ASBESTONE CORPORATION
Asbestos Co of Texas
BARRETT DIV ALLIED CHEMICAL & DYE CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
FLINTKOTE CO
JOHNS-MANVILLE CORP
KEASBEY & WATTISON CO
Palco Products Inc
RUBEROID CO
Smith Asbestos Products Co Inc
Supradur Corp
U S GYPSUM CO

► SIDING, ASBESTOS CEMENT, CORRUGATED

Asbestos Co of Texas
CAREY (PHILIP) MFG CO
Ford Roofing Products Co
JOHNS-MANVILLE CORP
KEASBEY & WATTISON CO
RUBEROID CO

► SIDING, ASPHALT, LAMINATED RIGID

BARRETT DIV ALLIED CHEMICAL & DYE CORP
CAREY (PHILIP) MFG CO
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
Globe Roofing Products Co Inc
Lagan-Long Co
RUBEROID CO

► SIDING, ASPHALT, PATTERNERD, INSULATING

AMERICAN ASPHALT ROOF CORP
BARRETT DIV ALLIED CHEMICAL & DYE CORP

BIRD & SON INC
Birxite Mfg Co
CAREY (PHILIP) MFG CO
CELOTEX CORP
Cowan-Division Corp
CERTAIN-TEED PRODUCTS CORP
FLINTKOTE CO
Ford Roofing Products Co Inc
Globe Roofing Products Co Inc
JOHNS-MANVILLE CORP
JONES & BROWN INC
Keystone Asphalt Products Co
Lehon Co
Lagan-Long Co
Master Asphalt Corp
NATIONAL MFG CORP
Nelson (B F) Mfg Co
Plasteron Wall Board Co
Protective Products Co
RUBEROID CO
Tamko Asphalt Products Inc
TEXAS CO
U S GYPSUM CO
Weatherpanel Sidings Inc

► SIDING, HARDBOARD MASONITE CORP

► SIDING, IRON & STEEL

AMERICAN STEEL & WIRE CO
Arco Steel Corp
Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Cincinnati Sheet Metal & Roofing Co
Columbia Steel Co
Continental Steel Corp
Edwards Mfg Co
FENESTRA BUILDING PRODUCTS
Fries & Son Steel Construction & Engineering Co
Granite City Steel Co
Houston Blow Pipe & Sheet Metal Works
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
Klauser Mfg Co
Koppers Co Inc Tar Products Div
La Crosse Steel Roofing & Corrugating Co
Macomber Inc
NICHOLS WIRE & ALUMINUM CO
Reeves Steel & Mfg Co
REPUBLIC STEEL CORP
ST PAUL CORRUGATING CO
Southern States Iron Roofing Co
TENNESSEE COAL IRON & RAILROAD CO
Tiffin Art Metal Co
UNITED STATES STEEL CO
UNITED STEEL FABRICATORS INC
Wheeling Corrugating Co
Wheeling Steel Corp

► SIDING, LOG

Abbot Fox Lumber Co
Anacosta Copper Mining Co
Argent Lumber Co
BRADLEY LUMBER CO OF ARK

Brown's Tie and Lumber Co
BRUCE (E L) CO
Canadian Forest Products Ltd
Canadian Western Lumber Co Ltd
Christiansen (C M)
Collins Poodosa Lumber Co
Confort (George N) Lumber Co
CONNOR LUMBER & LAND CO
Contact Lumber Co
Cook County Lumber Co
Cummer Sons Cypress Co
Dierks Lumber & Coal Co
Fiprine Products Co
Fleishel Lumber Co
Frost Lumber Industries Inc
Goodman Lumber Co
Hill-Behan Lumber Co
Hines (Edward) Lumber Co
Hulbert (Wm) Mill Co
Johnson (C B) Lumber Corp
Kennedy (J G) Lumber Co
Kent Lumber Co
Kinzaus Pine Mills Co
LONG-BELL LUMBER CO
Long Seattle Lumber Co
McCloud Lumber Co
Medford Corp
Metropolitan Lumber Co
Michigan Maple Block Co
Miller (E C) Cedar Lumber Co
Miller (George E) Lumber Co
Nells (J) Lumber Co
New Mexico Timber Co
Ozan Lumber Co
Patrick Lumber Co
Pickering Lumber Corp
Rainy Lake Lumber Co Ltd
Redwood Sales Co
Robertson & Hackett Sawmill Co
RODDIS PLYWOOD CORP
Rosboro Lumber Co
Rustic Furniture Co Inc
St Maries Lumber Co
St Paul & Tacoma Lumber Co
Soderberg (Carl E) Lumber Co
Sullivan Lumber Co
Union Lumber Co
Van Deuse Lumber Sales Corp
Wallace Mill & Lumber Co
Walton Lumber Co
Warren-Lamb Lumber Co
WEYERHAEUSER SALES CO
Wilson (A K) Lumber Co
Winton Lumber Sales Co
Wood Lumber Co

► SIDING, PLYWOOD

Aetna Plywood & Veneer Co
ATLAS PLYWOOD CORP
U S PLYWOOD CORP

► SIDING, UNDERLINER, INSULATING, BLANKET

CELOTEX CORP
RUBEROID CO
WOOD CONVERSION CO

► SIDING, WOOD FIBER INSULATING

BIRD & SON INC

► SIGNS

Active Display Adv
Allen (W D) Mfg Co
Auto Sign Display Co
Carter Co
Enamel Products Co
Engineered Plywood Products
Ero Mfg Co
Flexium Corp
Fox Valley Forge
Imperial Brass Mfg Co
MACLANBURG-DUNCAN CO
Miro-Flex Co
National Advertising Co
Newman Brothers Inc
Ready-Made Sign Co
Reflecto Letters Inc
Renco
Seapacel Porcelain Metals Inc
Stewart Iron Works Co Inc
Tennessee Enamel Mfg Co
Thomas & Associates Inc
Tiffin Art Metal Co
Turner Brass Works
Watson Co
Whitall Metal Studios

► SILICON, CARBIDE GRAIN

BEHR-MANNING CORP DIV NORTON CO
Carborundum Co
Fort Pitt Chemical Co
Safe Tread Co Inc

► SILOS

Arrow Tank Co Inc
Caldwell (W E) Inc
Concrete Transport Mixer Co
Economy Silo & Mfg Co
Fleming Mfg Co Inc
Globe Silos
Harder Silo Co Inc
Hulbard & Co
Illinois Wire & Mfg Co
Independent Silo Co
Johnson & Carlson
Kalamazoo Tank & Silo Co
Lippmann Engineering Works

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

M & M Woodworking Co Respreet Dir
Nebraska Bridge Supply & Lumber Co
HOWE MFG CO
Schlichter (E F) Co Inc
Twin City Tank Silo & Specialty Co
Unadilla Silo Co
Willamette Valley Lumber Co

► SILOS, PORTABLE RICKKRAFT CO

SINK RIMS, PREFORMED

BRIGGS MFG CO
S & T METALS CO
Decorite Inc
Ford Metal Moulding Corp
Kinkead Industries Inc
MACLANBURG-DUNCAN CO
Metal Trims Inc
National Aluminum Co
Pyramid Moulding Co
E & W Moulding Co
Trimades Inc
Wouster Products Inc
Youngstown Mfg Inc

► SINKS CABINET

ALLIANCEWARE INC
AMERICAN CENTRAL DIV AVCO MFG
CORP
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
BERGER MFG DIV REPUBLIC STEEL CORP
Boro Wood Products Co
BRIGGS MFG CO
Coppes Inc
CRANE CO
CURTIS COS INC
Elgin Stove & Oven Div Acme Visible Records
Inc
ELJER CO
ELKAY MFG CO
Enamel Products Co
Excel Metal Cabinet Co Inc
GENERAL ELECTRIC CO APPLIANCES &
MERCHANDISE DEPT
HOTPOINT INC
IXL Furniture Co
KELVINATOR DIV NASH-KELVINATOR
CORP
KOHLER CO
Lyon Metal Products Inc
Midwest Mfg Co
Morton Mfg Co Morton Kitchen Cabinet Div
MULLINS MFG CO
MURPHY DOOR BED CO
MURRAY CORP OF AMERICA
Mutschler Bros
Palley Mfg Co
Paragon Utilities
Pioneer Co
RICHMOND RADIATOR CO
Roberts & Mander Corp
Shirley Corp
Thor Corp
TOLEDO DESK & FIXTURE CO
TRACY MFG CO DIV EDGEWATER STEEL
CO

**► SINKS, MONEL OR
STAINLESS STEEL**
Douglas Distributor Corp
Elgin Stove & Oven Div Acme Visible Record
Inc
ELKAY MFG CO
Excel Metal Cabinet Co
Genera Modern Kitchens
Harrison Steel Cabinet Co
Houston Blow Pipe & Sheet Metal Works
International Nickel Co
Just Mfg Co
Legion Stainless Sink Corp
Lyon Metal Products Inc
Midwest Mfg Co
Palley Mfg Co
Paragon Utilities Corp
Products-From-Sweden Inc
Richmond Engineering Co
Roberts & Mander Corp
TRACY MFG CO DIV EDGEWATER STEEL
CO
Zakner Mfg Co

► SINKS, PORCELAIN ENAMEL
Abingdon Potteries Inc
ALLIANCEWARE INC
AMERICAN CENTRAL DIV AVCO MFG
CO
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
BRIGGS MFG CO
CRANE CO
Elgin Stove & Oven Div Acme Visible Records
Inc
ELJER CO
Enamel Products Co
General Ceramics & Steatite Corp Sanitary
Ware Div
General Porcelain Enameling & Mfg Co
Humphreys Mfg Co
Ingersoll Steel Div Borg-Warner Corp
KOHLER CO
Lyon Metal Products Inc
Midwest Mfg Co
Morton Mfg Co Morton Kitchen Cabinet Div
MULLINS MFG CO
MURRAY CORP OF AMERICA
Palley Mfg Co
Paragon Utilities Corp
Pioneer Co
RICHMOND RADIATOR CO

**► SINKS, MONEL OR
STAINLESS STEEL**
Douglas Distributor Corp
Elgin Stove & Oven Div Acme Visible Record
Inc
ELKAY MFG CO
Excel Metal Cabinet Co
Genera Modern Kitchens
Harrison Steel Cabinet Co
Houston Blow Pipe & Sheet Metal Works
International Nickel Co
Just Mfg Co
Legion Stainless Sink Corp
Lyon Metal Products Inc
Midwest Mfg Co
Palley Mfg Co
Paragon Utilities Corp
Products-From-Sweden Inc
Richmond Engineering Co
Roberts & Mander Corp
TRACY MFG CO DIV EDGEWATER STEEL
CO
Zakner Mfg Co

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Roberts & Mander Corp
Shirley Corp
Thor Corp
TOLEDO DESK & FIXTURE CO
TRACY MFG CO DIV EDGEWATER STEEL
CO
UNIVERSAL BUNDLE CORP

► SINKS, VITREOUS CHINA

Abingdon Potteries Inc
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
CRANE CO
ELJER CO
KOHLER CO
MULLINS MFG CO
RICHMOND RADIATOR CO

► SIZE, WALL

American Varnish Co
ARMSTRONG CORK CO
Borden Co Chemical Div
Chi-Namel Paint & Varnish Co
Cleveland Cleaner & Paste Co.
Consumers Glue Co
Crescent Products Co
Devoe & Reynolds Inc
Elliott Paint & Varnish Co
Empire Varnish Co
Evans Pipe Co
Farwell Ozmun Kirk & Co
Le Page's Inc
Lowe Brothers Co
Ming-Hillard Milling Co
MONSANTO CHEMICAL CO
Muralo Co Inc
Paisley Products Inc
Patent Cereals Co
PITTSBURGH PLATE GLASS CO
Pyramid Process Co Inc
Reardon Co
Reliable Paste & Chemical Co
Standard Industrial Products Inc
Tamm Industries Inc
Truscon Laboratories Div Deroe & Reynolds
Inc
U S GYPSUM CO
Vita-Var Corp
Wesco Waterpaints Inc

► SKIDS & PALLETS

Albany Corrugated Container Corp
ATLAS PLYWOOD CORP
Carr & Mohr Co
Clark Equipment Co Industrial Truck Div
Evans Products Co
Gabriel Steel Co
Gary Pioneer Steel Corp
GEORGIA-PACIFIC PLYWOOD CO
Johnson Industries Inc
Lewis-Shepard Products Inc
Northwest Door Co
Nutting Truck & Caster Co
PITTSBURGH STEEL PRODUCTS CO
Services Caster & Truck Co
TRUSCON STEEL CO PRESSED STEEL
DIV
Union Metal Mfg Co
West Bend Equipment Corp
VALE & TOWNE MFG CO

► SKYLIGHTS

ALSYNITE CO OF AMERICA
American Sheet Metal Works
Badger Corrugating Co
Edwards Mfg Co
Gleher Inc
Pennsylvania Wire Glass Co
RESOLITE CORP
ST PAUL CORRUGATING CO
Stewart Iron Works
Tiffin Art Metal Co
Wasco Flashing Co
Willis Steel Corp

► SLATE

North Bangor Slate Co
Structural Slate Co

► SLIDES, EXTENSION

DRAWER
Knape & Vogt Mfg Co

► SNIPS, TINNER'S

Atlas Shear Co
Bridgeport Hardware Mfg Corp
Peck Stow & Wilcox Co
SARGENT & CO
Wiss (J) & Sons Co
Youngstown Mfg Co Inc

► SOCKETS, STUDDING

Sterling Foundry Co
WAGNER MFG CO

► SOCKETS, WIRE ROPE

American Cable Div American Chain & Cable
Co Inc
AMERICAN STEEL & WIRE CO
Reelings (John A) Sons Co
Upson-Walton Co

► SOFTENERS, PUTTY

Barrett (William L) Co
Fletcher Terry Co
Fort Pitt Chemical Co
Glaziers Tool Mfg Co
King (E & F) & Co Inc
Sta-Warm Electric Co
Steeleite Mfg Co
Sullivan Co

► SOFTENERS, WATER

American Water Softener Co
Bard Mfg Co
Caigon Inc
CRANE CO
Culligan Zeolite Co
Dayton Pump & Mfg Co
Dow Chemical Co
Elgin Softener Corp
Myers (F E) & Brothers Co
Ollux Co
Pennsylvania Salt Mfg Co
Permutit Co
Reynolds-Shaffer Co
RHEEM MFG CO
Solvent Chemical Products Inc
WORTHINGTON CORP CONSTRUCTION
EQUIPMENT SALES DIV

► SOLDER & MATERIALS

Atkins (E C) Div Borg Warner Corp
Belmont Smelting & Refining Works
CHASE BRASS & COPPER CO
Division Lead Co
Eagle-Picher Co
Ensign Products Co
Hanchett Mfg Co
INLAND STEEL PRODUCTS CO
Koster Solder Co
King (E & F) & Co Inc
Lake Chemical Co
Lenk Mfg Co
Lux-Visel Inc
National Lead Co
Sheffield Bronze Paint Corp
Wall (P) Mfg Co
Wayne Chemical Products Co

► SPACKLING COMPOUNDS

Colorecrete Industries Inc
Consumers Glue Co
NEBUS PORTLAND CEMENT CO
Mineral Pigments Corp
Muralo Co Inc
NATIONAL GYPSUM CO
PITTSBURGH PLATE GLASS CO
Reardon Co
Rutland Fire Clay Co
Seahk Chemical Co
Tamm Industries Inc
U S GYPSUM CO
Wesco Waterpaints Inc

► SPIKES, CUT

Alan Wood Steel Co
Bethlehem Steel Co
INLAND STEEL CO
Wheeling Corrugating Co

► SPLICERS, WIRE & FENCE

AMERICAN STEEL & WIRE CO
Crescent Tool Co
KEYSTONE STEEL & WIRE CO
Klein (Mathias) & Sons
Peck Stow & Wilcox Co

► SPREADERS, FERTILIZER, LAWN & GARDEN

Buch Mfg Co
Doggett-Piell Co
Germain Seed & Plant Co
Masters Planter Co
Midland Co

► SPRINKLERS, AUTOMATIC SYSTEMS

Blaw-Knox Div Blaw-Knox Co

► SPRINKLERS, LAWN

Adel Precision Products Corp
Deming Co
Keystone Brass & Rubber Co
National Sprinkler Co
Roll-A-Way Sprinkler Co
Scottill Mfg Co

► SQUARES, CARPENTER'S

Brown & Sharpe Mfg Co
LUFKIN RULE CO
Millers Falls Co
SARGENT & CO
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co
Swanson Tool Co

► SQUARES, CARPENTER'S, STEEL "T"

Brown & Sharpe Mfg Co
Dietzgen (Eugene) Co
Diston (Henry) & Sons Inc
Goldblatt Tool Co
KEUFFEL & ESSER CO
Peck Stow & Wilcox Co
SARGENT & CO
Selek (Walter E) & Co
Sharp's Mfg Co
Southington Hardware Mfg Co
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co
Union Tool Co
Woodmark Industries

► SQUARES, COMBINATION

LUFKIN RULE CO
Peck Stow & Wilcox Co
STANLEY TOOLS DIV STANLEY WORKS

► SQUARES, GLASS CUTTER'S

Fletcher Terry Co
Glaziers Tool Mfg Co
LUFKIN RULE CO
PITTSBURGH PLATE GLASS CO
Sommer & Maca Glass Machinery Co
STANLEY TOOLS DIV STANLEY WORKS

► STAIN, CONCRETE FLOOR

CABOT (SAMUEL) INC
Flexrock Co
Horn (A C) Co Inc
PECORA PAINT CO INC
Smith (J Lee) & Co Inc
Sullivan Co
Tamm Industries Inc
Truscon Laboratories Div Deroe & Reynolds
Inc

Vita-Var Corp
Wilbur & Williams Co
Williams (C K) & Co

► STAIN, SHINGLE

Abeto Mfg Corp
Alabachne Paint Products Div Chicago
Bronze & Color Works
American Stained Shingle Co
American Varnish Co
Berry Brothers Inc
Boston Varnish Co
Breinig Brothers Inc
Briggs-Maroney Co Inc
CABOT (SAMUEL) INC
Carboliteum Wood Preserving Co
Cerasal Chemical Corp
Chicago Bronze & Color Works
Chi-Namel Paint & Varnish Co
Colonial Cedar Co
CREG-DIPT CO INC
CUPRINOL DIV DARTWORTH INC
Devoe & Reynolds Inc
Du Pont (E I) de Nemours & Co
Elliott Paint and Varnish Co
Empire Varnish Co
Glidden Co
Horn (A C) Co Inc
Johnston (B F) Paint Co
Lowe Brothers Co
Minnesota Paints Inc
Murphy Paint Div Interchemical Corp

O'Brien Corp
Olympic Stained Products Co
Parker (Ira) & Sons Co
Paterson-Sargent Co
PERMA PRODUCTS CO
PITTSBURGH PLATE GLASS CO
Portland Shingle Co
Pratt & Lambert Inc
Protexol Corp
Sargent-Gerke Co
Selditz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Sonneborn (L) Sons Inc
Standard Industrial Products Inc
Valentine & Co Inc
Vita-Var Corp
Wadsworth Howland & Co
Weatherbest Corp
Wetherill (George D) & Co
Wood Preserver Co
Wood Treating Chemicals Co

► STAIN, VARNISH

Boston Varnish Co
Devoe & Reynolds Inc
Elliott Paint and Varnish Co
Glidden Co
Horn (A C) Co Inc
Keystone Paint & Varnish Corp
Lowe Brothers Co
O'Brien Corp
PITTSBURGH PLATE GLASS CO
Selditz Paint & Varnish Co
SHERWIN-WILLIAMS CO
Steeleite Mfg Co
Truscon Laboratories Div Deroe & Reynolds
Co
Valentine & Co Inc
Vita-Var Corp

► STAIN, WOOD, OIL

Abeto Mfg Corp
BARRETT DIV ALLIED CHEMICAL & DYE
CO
Boston Varnish Co
Breinig Brothers Inc
CABOT (SAMUEL) INC

► STAIN, WOOD, OIL

Abeto Mfg Corp
BARRETT DIV ALLIED CHEMICAL & DYE
CO
Boston Varnish Co
Breinig Brothers Inc
CABOT (SAMUEL) INC

AMERICAN BUILDER

Manufacturers' Names and Addresses Start on Page D-61
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Chicago Bronze & Color Works
CREO-DIPT CO INC
 Devco & Reynolds Inc
 Elliott Paint and Varnish Co
 Foy Paint Co Inc
 Horn (A C) Co Inc
LINSEED OIL PRODUCTS
 Lowe Brothers Co
 Marietta Paint & Color Co
 O'Brien Corp
 Olympic Stained Products Co
 Parker (Ira) & Sons Co
PERMA PRODUCTS CO
PITTSBURGH PLATE GLASS CO
 Pratt & Lambert Co
 Sedlitz Paint & Varnish Co
SHERWIN-WILLIAMS CO
 Standard Varnish Works
 Toch Brothers Inc
 Truscon Laboratories Div Devco & Reynolds
 Co
 Vita-Var Corp

▶ STAIRS, STEEL

ARTCRAFT ORNAMENTAL IRON CO
 Belkhol Co
CINCINNATI IRON FENCE CO
 Decatur Iron & Steel Co
 Flske (J W) Iron Works
GENERAL BRONZE CORP
 Grand Rapids Wire Products Co
 Houston Blow Pipe & Sheet Metal Works
 International Steel Co
 Logan Co
 Mareo Stairways
MESKER (GEORGE L) STEEL CORP
METAL CRAFTERS
ST PAUL FOUNDRY & MFG CO
 Smith (F P) Wire & Iron Works
 Stewart Iron Works Co Inc

▶ STAIRS, WOOD, MATERIALS FOR

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
 Cole Mfg Co
 Corbett Cabinet Co
CURTIS COS INC
 Farley & Loetscher Mfg Co
 Huttig Mfg Co
 Huttig Sash & Door Co
 Marquart Millwork Co
 M & M Woodworking Co
 Morgan Co
 Morgan Sash & Door Co
 Nickley Brothers Inc
 Radford Co
 Radford & Sanders Inc
 Rock Island Millwork Co
 Sneider (Frank C) & Co
 Spokane Sash & Door Co
 Wheeler Osgood Co

▶ STAIRWAY, DISAPPEARING

American Ladder Co
BESSLER DISAPPEARING STAIRWAY CO
 Craig Wood Products Co
EZ-WAY SALES INC
 Farley & Loetscher Mfg Co
FOLDWAY STAIRWAY CO INC
HUNTINGTON INDUSTRIES INC
 Mareo Stairways
 Marchice Co
 Newark Ladder & Bracket Co
PRECISION PARTS CORP
 Roach & Musser Co
WEL-BILT PRODUCTS CO

▶ STAKES, SURVEYORS

LUFKIN RULE CO

▶ STAPLERS & STAPLES

Acme Staple Co
 Acme Steel Co
 Arrow Fastener Co
 Atlas Tack Corp
 Bethlehem Steel Co Inc
BOSTITCH INC
 Brower Mfg Co
 Burgess Fastening Co
 Columbia Steel Co
 Consolidated Wire Products
 Continental Steel Corp
 Copperweld Steel Co
 Crofoot (J B) Co
FASTENER CORP
 Fir-Tec Insulating Board Co
FRANTZ MFG CO
 Gerrard (A J) & Co
HANSEN (A L) MFG CO
 Hillwood Mfg Co
 Hotchkiss (E H) Co
JONES & LAUGHLIN STEEL CORP
KEYSTONE STEEL & WIRE CO
 Larson (Charles O) Co
 Marksmen Mfg Co
 Mid-States Steel & Wire Co
NATIONAL MFG CO
 National Screw & Mfg Co
NICHOLS WIRE & ALUMINUM CO
 Northwestern Steel & Wire Co
REMINOTON RAND INC
REPUBLIC STEEL CORP
 Saranne Machine Co
SARGENT & CO
 Sheffield Steel Corp
 Shelton Tack Co
TENNESSEE COAL IRON & RAILROAD CO
 Wheeling Corrugating Co
 Wickwire Brothers

▶ STAPLES, METAL FURRING OR LATH

AMERICAN STEEL & WIRE CO
 Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
 Continental Steel Corp
KEYSTONE STEEL & WIRE CO
 Pittsburgh Steel Products Co
 Wheeling Corrugating Co

▶ STAYS, FENCE

AMERICAN STEEL & WIRE CO
CECO STEEL PRODUCTS CORP
KEYSTONE STEEL & WIRE CO
 Mid-States Steel & Wire Co

▶ STAYS, WINDOW

Air-Tite Window Stay Co
 Hart Sash Holder Co
 Ideal Brass Works Inc
 Noiseless Window Spring Co
 Rockford Sash Holder, Inc
SARGENT & CO
 Vikre (J N) Co

▶ STEEL, CONCRETE REINFORCING

AMERICAN STEEL & WIRE CO
 Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
 Consolidated Iron-Steel Mfg Co
 Continental Steel Corp
COPCO STEEL & ENGINEERING CO
 Dietrich Brothers Inc
INLAND STEEL CO
 International Steel Co
KEYSTONE STEEL & WIRE CO
 Northwestern Steel & Wire Co
PENN METAL CO INC
 Pittsburgh Steel Products Co
REPUBLIC STEEL CO
 Soule Steel Co
STEELCRAFT MFG CO
TENNESSEE COAL IRON & RAILROAD CO
TRUSCON STEEL CO
 U S GYPSUM CO
UNITED STATES STEEL CO
 Wehrli Steel Corp
 Wheeling Corrugating Co
WICKWIRE SPENCER STEEL DIV COLG-RADD FUEL & IRON CORP

▶ STEEL, MASONRY WALL REINFORCING

CARTER-WATERS CORP
CEDAR RAPIDS BLOCK CO DUR-O-WAL DIV

▶ STEEL STRAPPING

Acme Steel Co
 Brainerd Steel Co
 Gerrard (A J) & Co
 Gerrard Steel Strapping Co
 Independent Metal Strap Co Inc
 Met-Cro Specialties Co Inc
PAINE CO
 Roebblings (John A) Sons Co
 Sharon Steel Co
 Signode Steel Strapping Co
STANLEY WORKS
 West Leechburg Steel Co

▶ STEEL, STRUCTURAL, MISC. SHAPES, ETC.

Alabama Metal Lath Co
 Allen Steel Products
 Bethlehem Steel Co Inc
BOSTWICK STEEL LATH CO
 Commercial Shearing & Stamping Inc
 Consolidated Iron-Steel Mfg Co
COPCO STEEL & ENGINEERING CO
 Decatur Iron & Steel Co
 Denley Brothers Co
GREAT LAKES STEEL CORP
INLAND STEEL CO
 International Steel Co
JONES & LAUGHLIN STEEL CORP
 Macomber Inc
 Rigidized Metals Corp
ST PAUL FOUNDRY & MFG CO
 Soule Steel Co
TENNESSEE COAL IRON & RAILROAD CO
TRUSCON STEEL CO
UNITED STATES STEEL CO

▶ STOKERS

AIRSTEMP DIV CHRYSLER MOTORS
 American Engineering Co
 Anchor Die Stratton & Teretage Co Inc
 Anchor Stone & Range Co
 Auburn Foundry Inc
 Brownell Co
 Coal-O-Matic Stoker Co
 Combustioner Div Steel Products Engineering Co
 Conco Engineering Works Div Conkey (H D) Co

CRANE CO
 Dowagiac Steel Furnace Co
 Econ-O-Col Stoker Div Cotta Transmission Co
 Eddy Stoker Corp
 Electric Furnace-Man Inc
 Erie City Iron Works
 Excelsior Stove & Mfg Co
 Fairbanks Morse & Co
 Freeman Stoker Div Illinois Iron & Bolt Co
 Genshey Machine & Foundry Co
 Holcomb & Hoke Mfg Co
 Holland Furnace Co
 Illinois Iron & Bolt Co
 Iron Fireman Mfg Co
 Kol-Master Corp
 Peerless Mfg Corp
 Porchontas Fuel Co
 Red Jacket Coal Sales Co
RHEEM MFG CO
 Schwilzer-Cummins Co
 Sinker-Davis Co
 Smith (A O) Corp
 Stokermatic Co
 Siskol Stoker Co Inc
 U S Machine Corp
 Viking Mfg Corp
WESTINGHOUSE ELECTRIC CORP
 Whiting Corp
 Will-Burt Co
 Worsham Company Inc

▶ STONE, CRAB ORCHARD

Crab Orchard Stone Co

▶ STONE, GRANITE

Fletcher (H E) Co
 North Carolina Granite Corp
 Vermont Marble Co

▶ STONE, LANNON

Conco Building Products Inc
 Hrobsky Lannon Stone Service
 Wisconsin Lannon Stone Corp

▶ STONE, LIMESTONE

Bloomington Limestone Co
 Carney Co Inc
 Conco Building Products Inc
 Corson (G & W H) Inc
 Indiana Limestone Co Inc
 Menke Stone & Lime Co
 Monon Stone Co
 National Lime & Stone Co
 Rare Roadley Stone Co
 Taylor Stone Co
 Wisconsin Lannon Stone Corp
 Woolery Stone Co Inc

▶ STONE, MARBLE

Bauer (Frank P) Marble Co
 Fwale Equipment Mfg Co
 Georgia Marble Co
 Schlichter (P M & W) Inc
 Universal Form Clamp Co
 Vermont Marble Co

▶ STONE PATCHING COMPOUNDS

Dugan's Invisible Stone Patch & Stone Stain Products
 Reardon Co
 Rutland Fire Clay Co

▶ STONE, QUARTZ

Tennessee Stone Co Inc

▶ STONE, SANDSTONE

BRIAR HILL STONE CO
 Cleveland Quarries Co
 Taylor Stone Co

▶ STONE, SYNTHETIC

Formstone Co
 Perma Stone Co
 Steffast Stone & Brick Corp
 Stonekote Corp

▶ STORE LAYOUT SERVICES

Heller (W C) & Co
 Huss & Baird Studio
LONG-BELL LUMBER CO
 Sika Spruce Lumber & Mfg Co
STANDARD STEEL WORKS

▶ STRAIGHTEDGES

Atkins (E C) Div Borg Warner Corp
 Brown & Sharpe Mfg Co
 Dietzgen (Eugene) Co
 Glaziers Tool Mfg Co
 Hoe (H) & Co Inc
KEUFFEL & ESSER CO
LUFKIN RULE CO
RED DEVIL TOOLS
 Ridgely Trimmer Co
 Seck (Walter F) & Co
 Starratt (L S) Co

▶ STRAINERS, EAVE TROUGH

Alabama Metal Lath Co
 Badger Corrugating Co
BERGER MFG DIV REPUBLIC STEEL CORP
 Brown & Sharpe Mfg Co
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
 Donley Brothers
 Edwards Mfg Co
INLAND STEEL PRODUCTS CO
 Mid-States Steel & Wire Co
 Northwest Metal Products Inc
 Penn Supply & Metal Corp
 Bolock Inc
 U S Clatern Filter Mfg Co
 Wheeling Corrugating Co
 Williams-Wallace Co
 Zurn (J A) Mfg Co

▶ STRAINERS, SEWER PIPE

American Vitrified Products Co
 Donley Brothers
 Evans Pipe Co
MAJESTIC CO
 Robinson Clay Product Co
 Universal Sewer Pipe Corp
 Vestal Stone Co
 Zurn (J A) Mfg Co

▶ STRAPPERS

Acme Steel Co
 Brainerd Steel Co
 Gerrard (A J) & Co
 Gerrard Steel Strapping Co
 Sharon Steel Co
 Signode Steel Strapping Co

▶ STRIPS, CORRUGATED FILLER

Fabricated Products Co
 Serviced Products Corp

▶ STRIPS, DIVIDING

CHASE BRASS & COPPER CO
 Manhattan Terrazo Brass Strip Co Inc

▶ STRIPS, FILLER ASPHALT

Fabricated Products Co
 Serviced Products Corp

▶ STRIPS, FURRING, STEEL

Boiardi Steel Corp

▶ STRIPS, SEALING

Keller Products

▶ STUCCO

Beutex Plaster Mfg Co
 Coddington (E D) Mfg Co
 Colorecrete Industries Inc
KENITEX CORP
 Penn Crete Products Co
 Sullivan Co

▶ STUCCO, PRE-MIXED

Blue Diamond Corp
LOUISVILLE CEMENT CO
 Pyramid Co
 U S GYPSUM CO
 Woodville Lime Co

▶ STUCCO RETARDERS

Breitag Brothers Inc
 Tamm Industries Inc

▶ SWEEPERS, INDUSTRIAL MACHINE

Handling Devices Co Inc

▶ SWITCHES, ELECTRIC

Arrow-Hart & Hegeman Electric Co
 Bryant Electric Co
BULLDOG ELECTRIC PRODUCTS CO
 Cutler-Hammer Inc
 Federal Electric Products Co
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
 General Switch Corp
 Hubbell (Harvey) Inc
 Micro Switch Corp
 Pass & Seymour Inc
WESTINGHOUSE ELECTRIC CORP

▶ SWITCHES, MERCURY

MINNEAPOLIS-HONEYWELL REGULATOR CO

▶ SWITCHES, TIME, AUTOMATIC

Paragon Electric Co
 Penn Electric Switch Co
 Rampel Time Control Ins
 Tork Clock Co Inc

Manufacturers' Names and Addresses Start on Page D-61
 Manufacturers' Brand Name Identifications Start on Page D-52

► **SYSTEMS, GARAGE, GAS
REMOVAL**
NATIONAL SYSTEM GARAGE VENTILATION

► **TABLES, DRAFTING**

Emrick Inc
Hamilton Mfg Co
KEUFFEL & ESSER CO
Kingsley Mfg Co
Kinross Pine Mills Co
Lyon Metal Products Inc
Post (Frederick) Co
Smith (H E) Co
Southern Wire & Iron Works
Stacor Equipment Corp
Stillwater Clay Products Co
WARREN-KNIGHT CO

► **TABLES, SAW**

ATLAS PRESS CO
Sales Service Machine Tool Co

► **TABLES, STEEL**

Equipto Div Aurora Equipment Co
Heller (W C) & Co
Heyer Sales Co
Lyon Metal Products Inc
Precision Equipment Co
REMBINGTON BRAND INC
Universal Steel Equipment Corp

► **TACKERS, AUTOMATIC**

Aeme Staple Co
Aeme Steel Co
ARROW FASTENER CO
BOSTITCH INC
Burgess Fastening Co
Crofoot (J B) Co
FASTENER CORP
Glaziers Tool Mfg Co
HANSEN (A L) MFG CO
Heller Co
Hotchkiss (E H) Co
Markwell Mfg Co Inc
RED DEVIL TOOLS
Saranac Machine Co
Spotnails Inc

► **TACKERS, HAMMER**

BOSTITCH INC
Hotchkiss (E H) Co
Markwell Mfg Co Inc

► **TAMPERS**

BARCO MFG CO
Storta (John) & Sons
Woodings-Verona Tool Works

► **TANKS, FUEL OIL & GAS
STORAGE**

Black Stralls & Bryson Inc
KAUSTINE CO INC
KOVEN (L O) & BROS INC
Modern Welding Co
PRICE FIREPLACE HEATER & TANK CORP
San-Equip Inc

► **TANKS, HOT WATER,
HEATING SYSTEM**

BELL & GOSSETT CO
THRUSH (H A) & CO

► **TANKS, SEPTIC, CLAY**

American Vitified Products Co
Cannellon Sewer Pipe Co
Dall Steel Products Co
Denver Sewer Pipe & Clay Co
Dickey (W S) Clay Mfg Co
Evans Pipe Co
Kaul Clay Mfg Co
Lehigh Sewer Pipe & Tile Co
NATIONAL CLAY PIPE MFRS INC
Robinson Clay Products Co
Sealcon Products Inc
Streator Drain Tile Co
What Cheer Clay Products Co

► **TANKS, SEPTIC, STEEL**

Armo Drainage & Metal Products Inc
Beall Pipe & Tank Corp
Birmingham Building Products Corp
Butler Mfg Co
Dempster Mill Mfg Co
Donley Brothers
Ingalls Iron Works Co
KAUSTINE CO INC
KOVEN (L O) & BROS INC
Modern Welding Co
PRICE FIREPLACE HEATER & TANK CORP
Richmond Engineering Co
San-Equip Inc
Stillwater Clay Products Co
Stover Steel Tank & Mfg Co
Uniflow Mfg Co

► **TANKS, SEPTIC, WOOD**

Arrow Tank Co
Butler Mfg Co
Fleishel Lumber Co

Johnson & Carlson
Uniflow Mfg Co

► **TANKS, STEEL, STORAGE**

Aermotor Co
American Steel Works
Armo Drainage & Metal Products Inc
Beall Pipe & Tank Corp
Breyer Brothers Whiting & Co
Butler Mfg Co
Dempster Mill Mfg Co
Edwards Mfg Co
Farwell Ozmun Kirk & Co
Hell Company
Houston Blow Pipe & Sheet Metal Works
Hudson (H D) Mfg Co
ST PAUL FOUNDRY & MFG CO
Schlichter (E F) Co Inc
Seattle Boiler Works
Siehring Mfg Co
Stover Steel Tank & Mfg Co
Wayne Home Equipment Co

► **TANKS, WOOD, STORAGE**

Aermotor Co
Arrow Tank Co Inc
Atlantic Tank Corp
Baltimore Coopage Tank & Tower Co
Dempster Mill Mfg Co
Economy Silo & Mfg Co
Fleishel Lumber Co
Johnson & Carlson
New England Tank & Tower Co
Pacific Wood Tank Corp
Schlichter (E F) Co
Union Lumber Co
U S Challenge Co

► **TAPE, FILTER, DRAIN TILE**

Rie-Wil Co

► **TAPE, INSULATING**

RUBEROID CO

► **TAPE, MASKING**

BEHR-MANNING CORP
Goodrich (B F) Co
Minnesota Mining & Mfg Co
PITTSBURGH PLATE GLASS CO

► **TAPE REPAIR OUTFIT**

LUFKIN RULE CO
WARREN-KNIGHT CO

► **TAPE RING**

LUFKIN RULE CO

► **TAPE, WALLBOARD JOINT**

CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Economy Bias Binding Co
Marvan Corp
NATIONAL GYPSUM CO
Ranburn Co Inc
Reardon Co
Tamm Industries Inc
U S GYPSUM CO
Wesco Waterpains Inc

► **TAPE, WATERPROOF,
WALLBOARD**

**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**

► **TAPES, MEASURING**

CARLSON & SULLIVAN INC
Chicago Steel Tape Co
Dietzgen (Eugene) Co
Economy Novelty & Printing Co
EVANS & CO
Graham (John H) & Co
KEUFFEL & ESSER CO
LUFKIN RULE CO
MASTER RULE MFG CO INC
Parisian Novelty Co
Roe (Justus) & Sons
Starratt (L S) Co
Uniflow Tool Co
WARREN-KNIGHT CO
WHITE (DAVID) CO

► **TAPES, SURVEYORS**

EVANS & CO
LUFKIN RULE CO
WARREN-KNIGHT CO

► **TAPES, WOVEN**

LUFKIN RULE CO
WARREN-KNIGHT CO

► **TAPING MACHINES, DRY-
WALL**

Ames Taping Tools Inc
Debs Decorators
Drywall Taping Co

► **TAR, LIQUID**

**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
Horn (A C) Co Inc
Koppers Co Inc
Reilly Tar & Chemical Corp
Tuffalt Inc

► **TAR, PITCH**

AMERICAN ASPHALT ROOF CO
**BARRETT DIV ALLIED CHEMICAL & DYE
CORP**
BIRD & SON INC
CABOT (SAMUEL) INC
FLINTKOTE CO
JOHNS-MANVILLE CORP
Koppers Co Inc
Reilly Tar & Chemical Corp
RUBEROID CO

► **TARPAULINS**

American Tent & Awning Co
Angier Corp
Astrup Co
Remis Brothers Bag Co
Canvas Products Co
Canvas Specialty Co
Clifton Mfg Co
Conch Brothers Mfg Co
DANIELS (C B) INC
Fulton Bag & Cotton Mills
Goodrich (B F) Co
New York Drop Cloth Mfg Co
RIEHLKRAFT CO
Standard Awning Co
Stanley (William W) Co Inc
Tucker Duck & Rubber Co
U S Tent & Awning Co
Werner Canvas Products Co

► **TARPAULINS,
WATERPROOFED**

Acorn Canvas Co
Astrup Co
Berg (F O)
Fulton Bag & Cotton Mills Inc
Hettrick (W E) & Son Co
Upton Sales Corp
Wenzel (H) Tent & Duck Co

► **TERNE PLATES**

Badger Corrugating Co
Bethlehem Steel Co
FOLLANSBEE STEEL CO
INLAND STEEL PRODUCTS CO
Wheeling Corrugating Co
Wheeling Steel Corp
Youngstown Sheet & Tube

► **THIMBLES, CHIMNEY &
STOVE PIPE**

Allen Steel Products
Cannellon Sewer Pipe Co
Dickey (W S) Clay Mfg Co
Donley Brothers
Hope Brick Works
INLAND STEEL PRODUCTS CO
Kaul Clay Mfg Co
MAJESTIC CO
NATIONAL CLAY PIPE MFRS INC
Pacific Clay Products
Robinson Clay Products Co
Sterling Foundry Co
Washington Brick & Lime Co

► **THRESHOLDS, METAL &
PLASTIC**

Accurate Metal Weatherstrip Co
ALLMETAL WEATHERSTRIP CO
Aluminum Co of America
American Brass Co
American Mason Safety Tread Co
Athley Mfg Co
Braun (J G) Co
B & T METALS CO
CECO STEEL PRODUCTS CORP
Chamberlin Co of America Inc
CHASE BRASS & COPPER CO
Decorator Iron & Steel Co
Decorite Inc
Dennis (W J) & Co
Donley Brothers
Dorbin Metal Strip Mfg Co
Eero Mfg Co
Logan Co
MACKLANBURG-DUNCAN CO
MASTER METAL STRIP SERVICE INC
METAL GRAYERS
Monarch Metal Weatherstrip Corp
National Guard Products Inc
Newman Brothers Inc
NICHOLS WIRE & ALUMINUM CO

Protex Weatherstrip Mfg Co
Robbins Mfg Co
SABENT & CO
S & W Moulding Co
WEATHERPROOF PRODUCTS CORP
Werner (B D) Co Inc
Wooster Products Inc
Youngstown Mfg Inc

► **THRESHOLDS, WOOD**

Actna Plywood & Veneer Co
Anderson-Tully Co
Angelina Hardwood Sales Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Chapman & Dewey Lumber Co
Clarke County Lumber Mills
Cole Mfg Co
CROSSETT LUMBER CO
Dierks Lumber & Coal Co
Edens-Bireh Lumber Co
FAIR (D L) LUMBER CO
Farley & Loetscher Mfg Co
Fordyce Lumber Co
Frost Lumber Industries Inc
GREGG & SON INC
Griffith Lumber Co
Hallett Mfg Co Inc
Hardwood Corp of America
Holly Hill Lumber Co
Hutton & Bourbonnais Co
Industrial Lumber Co
Korn Industries Inc
LONG-BELL LUMBER CO
Mansfield Hardwood Lumber Co
Marshall Lumber Co
McCracken & McCall Inc
Meadow River Lumber Co
Memphis Hardwood Flooring Co
Miller Brothers Co Inc
Niskey Brothers Inc
Owen (R C) Co
Phillips-Rhyne Lumber Co Inc
Plumly (P W) Lumber Corp
Poinsett Lumber & Mfg Co
Reynolds Brothers Lumber Co
Ritter (W M) Lumber Co
Baker Island Millwork Co
Rose (D M) & Co
Southern Lumber Co
Stuart Lumber Corp
Temple Lumber Co
Triplet Lumber Co Inc
Webster (H E) Lumber Co
Williams-Brownell Inc
Williams (J L) & Sons
Wistar Underhill & Co

► **TIES, WALL**

Allen Steel Products
Badger Corrugating Co
Bethlehem Steel Co
BOSTWICK STEEL LATH CO
CARTER-WATERS CORP
CECO STEEL PRODUCTS CORP
**CEDAR RAPIDS BLOCK CO DUR-O-WAL
DIV**
Central Products Co
CHASE BRASS & COPPER CO
Copperwell Steel Co
Conver Steel & Wire Co
Donley Brothers
Gary Pioneer Steel Corp
Goldsmith Metal Lath Co
INLAND STEEL PRODUCTS CO
Kees (F D) Mfg Co
KEWANEE MFG CO
Klawer Mfg Co
La Crosse Steel Roofing & Corrugating Co
M & M Wire Clamp Co
NICHOLS WIRE & ALUMINUM CO
Northwest Metal Products Inc
Reeves Steel & Mfg Co
Sommer Metalcraft Corp
Southern States Iron Roofing Co
Star Expansion Products Co Inc
U S GYPSUM CO
Universal Form Clamp Co
Wheeling Corrugating Co

► **TIES, WALL & COLUMN,
WIRE MESH**

CECO STEEL PRODUCTS CO
Goldsmith Metal Lath Co
FEWEN METAL CO INC
Richmond Screw Anchor Co
Sommer Metalcraft Corp
TRUSCON STEEL CO
Universal Form Clamp Co
Wheeling Corrugating Co
Williams Form Engineering Corp

► **TILE, ACIDPROOF**

Harbison-Walker Refractories Co
Mexico Refractories Co
National Tile & Mfg Co
Nukem Products Corp
Robinson Clay Product Co
Sloane-Blabon Corp
Stark Brick Co
TILE-TEX DIV FLINTKOTE CO

► **TILE, ASPHALT**

ARMSTRONG CORK CO
BIRD & SON
CAREY (PHILIP) MFG CO
Congoleum-Nairn Inc
Duraflex Corp
FLINTKOTE CO
Fremont Rubber Co
HACHMEISTER INC

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Hood Rubber Div Goodrich (B F) Co
Insul Mastic Products Co Inc
JOHNS-MANVILLE CORP
KENTILE INC
MASTIC TILE CORP OF AMERICA
MULTILE INC
Pabco Products Inc
Roxdale Building Products Corp
Sloane-Blabon Corp
Thomas Moulding Floor Mfg Co
TYL-TEX DIV FLINTKOTE CO
Valde Rock Asphalt Co
Williams Products Co Inc

► TILE, CLAY

Acme Brick Co
Adel Clay Products Co
Arketex Ceramic Corp
American-Olean Tile Co
Beacon Brick Co
Binghamton Brick Co
Bowerston Shale Co
Brazil Hollow Brick & Tile Co
Cambridge Tile Mfg Co
Charleston Clay Products Co
Chicago Fire Brick Co
Claycraft Co
Denver Sewer Pipe & Clay Co
Elgin-Standard Brick Mfg Co
General Shale Products Corp
Hocking Valley Brick Co
Hope Brick Works Co
Humphrey Brick & Tile Co
Interstate Brick Co
Kalo Brick & Tile Co
Metropolitan Brick Inc
MOSAIC TILE CO
National Fireproofing Corp
National Tile & Mfg Co
Pacific Clay Products
Peoria Brick & Tile Co
Red River Valley Brick Corp
Robertson Mfg Co
Rockford Brick & Tile Co
Sheffield Brick & Tile Co
Sheridan Press Brick & Tile Co
Sparta Ceramic Co
Standard Brick & Tile Co
Stillwater Clay Products Inc
Stylon Corp
Summit Pressed Brick & Tile Co
Texas Brick Co
Tile Council of America
United Materials & Richmond Brick Co Ltd
U S Quarry Tile Co
Vendrius Valley Vitrified Brick & Tile Co
Yankee Hill Brick Mfg Co

► TILE, CORK

ARMSTRONG CORK CO
Dodge Cork Co Inc
KENTILE INC

► TILE, DRAIN

Acme Brick Co
Adel Clay Products Co
American Vitrified Products Co
Bowerston Shale Co
Cannellon Sewer Pipe Co
Chehalis Brick & Tile Co
Chicago Fire Brick Co
Clay City Pipe Co
Columbia Brick Works
Columbia Pipe Co
Concrete Products Corp
Denver Sewer Pipe & Clay Co
Dickey (W S) Clay Mfg Co
Evans Pipe Co
Graystone Concrete Products Co
Great Falls Brick Co
Hancock Brick & Tile Co
Humboldt Brick & Tile Co
Kalo Brick & Tile Co
Kingsland Clay Products Co
Lehigh Sewer Pipe & Tile Co
NATIONAL CLAY PIPE MFRS INC
National Fireproofing Corp
Pacific Clay Products
Robinson Clay Products Co
Rockford Brick & Tile Co
Sheffield Brick & Tile Co
Sheridan Press Brick & Tile Co
Streator Drain Tile Co
Texas Brick Co
Universal Sewer Pipe Co
What Cheer Clay Products Co
Yankee Hill Brick Co

► TILE, HEARTH

Lougmont Brick & Tile Co
Murray Tile Co Inc
Sparta Ceramic Co

► TILE, LINOLEUM

ARMSTRONG CORK CO
Bonafide Mills Inc
Sloane-Blabon Corp

► TILE, PARTITION, CLAY

Acme Brick Co
Columbia Brick Works
Denver Sewer Pipe & Clay Co
Graystone Concrete Products Co
Great Falls Brick Co
Hocking Valley Brick Co
Hope Brick Works
Kalo Brick & Tile Co
National Fireproofing Corp
St Anne Brick & Tile Co
Sealcon Products Inc

Sheffield Brick & Tile Co
Summit Pressed Brick & Tile Co
Washington Brick & Lime Co
Yankee Hill Brick Mfg Co

► TILE, PARTITION, GYPSUM

Blue Diamond Corp
CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
Sealcon Products Inc
U S GYPSUM CO

► TILE, PAVING, NON-SLIP

American Abrasive Metals Co
Charleston Clay Products Co
FLINTKOTE CO
Metropolitan Brick Co
National Tile & Mfg Co
Norton Co
Safe Tread Co Inc
Stark Brick Co
TYL-TEX DIV FLINTKOTE CO
Washington Brick & Lime Co

► TILE, PLASTIC

Cermak Tile Co
Delaware Floor Products Inc
HACHMEISTER INC
JOHNS-MANVILLE CORP
MASTIC TILE CORP OF AMERICA
Midland Plastic Molding Co
Stylon Corp
Styron Bri-Tile Co of N Y
Thomas Moulding Floor Mfg Co
U S Stoneware Co

► TILE, PLASTIC, ASBESTOS

Acorn Plastic Engineers Inc
JOHNS-MANVILLE CORP

► TILE, QUARRY

Adel Clay Products Co
Arketex Ceramic Corp
Brookhaven Pressed Brick & Mfg Co
Cannellon Sewer Pipe Co
Carlyle Tile Co
Clark (N) & Sons Div Pacific Clay Products
Gladding-McBean & Co
Hanley Co
Interstate Brick Co
Ludwici-Celadon
Mifflin (B) Hood Co
MOSAIC TILE CO
Murray Tile Co Inc
National Tile & Mfg Co
Pacific Clay Products
Robinson Clay Products Co
Summitville Face Brick Co
United Materials & Richmond Brick Co Ltd
U S Quarry Tile Co
Utah Fire Clay Co
Washington Brick Lime & Sewer Pipe Co
Wheeling Tile Co

► TILE, ROOFING

California Pottery Co
Clark (N) & Sons Div Pacific Clay Products
Gladding-McBean & Co
Ludwici-Celadon Co
Mifflin (B) Hood Co
Murray Tile Co Inc
National Fireproofing Corp
Pacific Clay Products
Washington Brick & Lime Co
Wolverine Porcelain Enameling Co
ZONOLITE CO

► TILE, ROOFING, INSULATING

KIMBLE GLASS CO SUB OF OWENS-ILL-INDIS GLASS CO

► TILE, ROOFING, METAL

Continental Steel Corp
Edwards Mfg Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV

► TILE, RUBBER

American Biltrite Rubber Co
American Rubber Corp
American Tile & Rubber Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV
Beauty Wear Rubber Co Inc
Danbury Rubber Co
Fremont Rubber Co
Goodrich (B F) Co
Goodyear Tire & Rubber Co Inc
Hood Rubber Div Goodrich (B F) Co
Insul Mastic Products Co Inc
Johnson Industries Inc
KENTILE INC
Lustro Plastic Tile Mfg Co
Mitchell (R L) Rubber Co
Northern Rubber Products Inc
Pabco Products Inc
Palladium Products
R C A RUBBER CO
Robbins Tire & Rubber Co
Roxdale Building Products Corp

Sloane-Blabon Corp
U S Rubber Co
Williams Products Co Inc
WRIGHT MFG CO WRIGHT RUBBER PRODUCTS DIV

► TILE, SEWER, SEGMENT

American Vitrified Products Co
Bowerston Shale Co
Dickey (W S) Clay Mfg Co
NATIONAL CLAY PIPE MFRS INC
Pacific Clay Products
Robinson Clay Products Co
Universal Concrete Pipe Co Inc
Universal Sewer Pipe Corp

► TILE, SILO

Acme Brick Co
Adel Clay Products Co
Columbia Brick Works
Dickey (W S) Clay Mfg Co
Kalo Brick & Tile Co
National Fireproofing Corp
Yankee Hill Brick Co

► TILE, STRUCTURAL CLAY

Acme Brick Co
Adel Clay Products Co
Alliance Clay Products Co
Arketex Ceramic Corp
Bush (W G) & Co
Charleston Clay Products Co
Chehalis Brick & Tile Co
Cherokee Brick Co
Claycraft Co
Columbia Brick Works
Conoco Building Products Inc
Denver Sewer Pipe & Clay Co
Dickinson Clay Products Co
Elgin-Butler Brick Co
General Shale Products Corp
Graystone Concrete Products Co
Great Falls Brick Co
Hidden Brick Co
Hocking Valley Brick Co
Hope Brick Works Co
Humboldt Brick & Tile Co
Interstate Brick Co
Jenkins Brick Co
Kalo Brick & Tile Co
Malvern Clay Co
Metropolitan Paving Brick Co
Moorhead Brick & Tile Co
National Fireproofing Corp
New Bethlehem Tile Co
Pacific Clay Products Co
Peoria Brick & Tile Co
Red River Valley Brick Corp
Rockford Brick & Tile Co
St Anne Brick & Tile Co
Schmiedt Brick & Tile Co
Sealcon Products Inc
Sheffield Brick & Tile Co
Sheridan Press Brick & Tile Co
Standard Brick & Tile Corp
Streator Drain Tile Co
Summit Pressed Brick & Tile Co
Texas Brick Co
United Brick & Tile Co
U S GYPSUM CO
Washington Brick & Lime Co
Yankee Hill Brick Mfg Co

► TILE, WALL, ALUMINUM, PLASTIC COATED

Alloy Tile Corp
Bestile Mfg Co
VIKON TILE CORP

► TILE, WALL BOARD

Aetna Plywood & Veneer Co
A & P Tileboard Co
Alo-Tile Mfg Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV
Barclay Mfg Co Inc
Bestile Mfg Co
Bolts Products Sales Inc
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP
Colotype Corp Div Tyle-Bord Co Inc
Cornell Wood Products
DART & RUSSELL INC
Davis Plywood Corp
East Coast Tileboard Corp
FLINTKOTE CO
Gibbs Boardtile Corp
HOMASTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
MARSH WALL PRODUCTS INC
MASONITE CORP
Milwaukee Plywood Co
Miratile Mfg Co
NATIONAL GYPSUM CO
National Tileboard Corp
Plasteron Wall Board Co
PRESTILE MFG CO
RODDIS PLYWOOD CORP
Roxdale Building Products Corp
Simpson Lugging Co
Superior Plastics Div Commonwealth Plastic Inc
Superior Wall Products Co

TYLAC CO
U S GYPSUM CO
UPSON CO
Wallace Mfg Co
Wall-Tile Mfg Co
Williams Products Co Inc
WOOD CONVERSION CO
Yankee Tile & Fibre Mfg Co

► TILE, WALL, BOARD, GYPSUM

CELOTEX CORP
NATIONAL GYPSUM CO

► TILE, WALL, BOARD, PLASTIC COATED

ARMSTRONG CORK CO BUILDING MATERIALS DIV
Barclay Mfg Co Inc
Bestile Mfg Co
East Coast Tileboard Co
Gibbs Boardtile Corp
MARSH WALL PRODUCTS INC
Miratile Mfg Co
National Tileboard Corp
PRESTILE MFG CO
Roxdale Building Products Co
Superior Wall Products Co
TYLAC CO
Wallace Mfg Co

► TILE, WALL, GLASS

American Beauty Glass Tile Co
Dearborn Glass Co
Pittsburgh Glass Tile Co

► TILE, WALL, MARBLE

Vermont Marble Co

► TILE, WALL, METAL

Alloy Tile Corporation
Baltimore Porcelain Steel Corp
Bestile Mfg Co
Cermak Tile Co Inc
Ford Roofing Products Co
Goldsmith Metal Lath Co
Metal Tile Products Inc
Ohio Can & Crown Co
Plastic Products Co
Roxdale Building Products Corp
Steel Wall Tile Co
VIKON TILE CORP
Wheeling Corrugating Co

► TILE, WALL, PLASTIC

A-1 PLASTIC MOLDERS INC
AMERCO PLASTICS
Barclay Mfg Co
Bonafide Mills Inc
Cermak Tile Co Inc
Chicago Plastic Products Co Inc
Church (C F) Mfg Co
East Coast Tileboard Co
Guldreid Corp
HACHMEISTER INC
Insul Mastic Products Co Inc
JONES & BROWN INC
Lustro Plastic Tile Co
Mastro Plastics Corp
Meridian Plastics Inc
Meyercoed Co
National Tileboard Corp
Pioneer Co
Pittsburgh Plastic Tile Co
Plastic Products Co
Plastic Tile Co of America
PRESTILE MFG CO
Robbins Tire & Rubber Co
S & W Moulding Co
Selek (Walter E) & Co
Stylon Corp
Styron Bri-Tile Co of N Y
Superior Plastics Div Commonwealth Plastics Inc
Superior Wall Products Co
Thomas Moulding Floor Mfg Co
Tile-Rite Co
TYL-TEX DIV FLINTKOTE CO
Trimede Inc
United Plastic Tile Co
Williams Products Co Inc
Wilson Plastics Inc

► TILE, WALL, PORCELAIN ENAMEL

American & Venetian Tile Co
ARMSTRONG CORK CO BUILDING MATERIALS DIV
Baltimore Porcelain Steel Corp
Clyde Porcelain Steel Corp
Davidson Enamel Products Inc
Porcelain Products Inc
Seapercol Enamels Metals Inc

► TILE, WALL, WOOD

Malmtile Co

► TILE & TILEBOARD, ACOUSTICAL

ARMSTRONG CORK CO BUILDING MATERIALS DIV
CELOTEX CORP
CERTAIN-TEED PRODUCTS CORP

Manufacturers' Names and Addresses Start on Page D-61
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DART & RUSSELL INC
Durand Inc
Hanson (Elof) Inc
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MARVILLE CORP
Kelley Island Lime & Transport Co
Kimberly-Clark Corp
Lockport Cotton Bating Co
OWENS-CORNING FIBERGLASS CORP
PITTSBURGH PLATE GLASS CO
Porte Mfg Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Rimpon Logging Co
U S GYPSUM CO
WOOD CONVERSION CO

▶ TIMBER CONNECTORS

Cleveland Steel Specialty Co Inc
Timber Engineering Co
TIMBER STRUCTURES INC

▶ TOOL BOXES

All-Steel Equipment Co
Equipco Div Aurora Equipment Co
LUFKIN RULE CO
Lyon Metal Products Inc
Proto Tool Co
Union Steel Chest Corp

▶ TOOLS, BORING

Armstrong Brothers Tool Co
Cireo Tool Co
Deuse (E W) Co
EMERSON ELECTRIC MFG CO U S ELEC-TRICAL TOOL DIV
Galting Tool Co
Graham (John H) & Co Inc
Holub Industries Inc
Mephisto Tool Co Inc
MILWAUKEE ELECTRIC TOOL CORP
Frait & Whitney Div Niles-Bement-Pond Co
Precision Tool Co Inc
STANLEY TOOLS DIV STANLEY WORKS
Wallace (J D) Mfg Co

▶ TOOLS, CARPENTER

Atkins (E C) Div Borg Warner Corp
Black Brothers Co Inc
Cedarberg Mfg Co
Diston (Henry) & Sons Inc
Drew (C) & Co
Eliason Tool Co
Empire Level Mfg Co Inc
Graham (John H) Co Inc
Greenlee Tool Co
Heller Brothers Co
Levonia Tool Co
Mayhew Steel Products Inc
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
Peck Stow & Wilcox Co
Plumb Tool Company
Rainey-Tool Co
Sampson Tools Mfg Co
SARGENT & CO
STANLEY TOOLS DIV STANLEY WORKS
Starrett (L S) Co
Stortz (John) & Son Inc
Union Hardware Co
Vaughan & Bushnell Mfg Co

▶ TOOLS, CARVING, HOMEWORKSHOP

Russ Machine Works
Chicago Wheel & Mfg Co
Clarke Sanding Machine Co
BREVEL MFG CO
Duro Metal Products Co
Excel Auto Radiator Co
INDEPENDENT PNEUMATIC TOOL CO
North Brothers Mfg Co Div Stanley Tools
Osborne (C B) & Co
PARKS WOODWORKING MACHINE CO
Pratt & Whitney Div Niles Bement-Pond Co
Speedway Mfg Co
Walker-Turner Co Div Kearney & Trecker Corp
Wilson Saw Div Media Machine Works Inc

▶ TOOLS, CAULKING

Bucabel Tool Mfg Co
Goldblatt Tool Co
Levonia Tool Co
Paine (Benjamin O)
Proto Tool Co
Robbins Mfg Co

▶ TOOLS, CONCRETE FINISHING

Atkins (E C) Div Borg Warner Corp
Diston (Henry) & Sons Inc
Goldblatt Tool Co
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO
Marshalltown Trowel Co
Sand's Level & Tool Co
Sterling Wheelbarrow Co
Whitman Mfg Co

▶ TOOLS, ELECTRIC, PORTABLE

Albertson & Co Inc
AMERICAN FLOOR SURFACING MACHINE CO

BLACK & DECKER MFG CO
BRADFORD MACHINE TOOL CO
Burgess Vibrocrafters Inc
Chicago Pneumatic Tool Co
Clarke Sanding Machine Co
Consolidated Machinery & Supply Co Ltd
CUMMINGS-CHICAGO CORP CUMMINGS

▶ PORTABLE TOOLS DIV

Electric Spray Co
EMERSON ELECTRIC MFG CO U S ELEC-TRICAL TOOL DIV
FORBERG MFG CO
Goldblatt Tool Co
HESTON & ANDERSON DIV ST PAUL FOUNDRY & MFG CO
INDEPENDENT PNEUMATIC TOOL CO
MALL TOOL CO
Master Woodworker Mfg Co
Millers Falls Co
MILWAUKEE ELECTRIC TOOL CORP
PORTER-CABLE MACHINE CO
ROCKWELL MFG CO DELTA POWER TOOL DIV
SKIL CORP
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
SYNTRON CO
U S Electrical Tool Co
Wallace (J D) & Co
Wright Power Saw & Tool Co

▶ TOOLS, GLAZIERS'

PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
STANLEY TOOLS DIV STANLEY WORKS

▶ TOOLS, LINOLEUM-LAYING

ARMSTRONG CORK CO
HACHMEISTER INC
National Guard Products
Youngstown Mfg Inc

▶ TOOLS, MASONS, PLASTERERS

Adams (C F) Inc
Adams Co
Atkins (E C) Div Borg Warner Corp
Banner Mfg Co
Berg (John) Mfg Co
Bridgeport Hardware Mfg Corp
Bucabel Tool Mfg Co
Cedarburg Mfg Co
Diston (Henry) & Sons
Dunlop Brothers
Dresden Mfg Co
Drew (C) & Co
Economy Mfg Co
Empire Level Mfg Co
Goldblatt Tool Co
Graham (John H) Co Inc
Griffith Tool Works
Heller Brothers Co
Huther Brothers Co
Industrial Iron Works
Kakest Company
Lansing Co
Marshalltown Trowel Co
Mayer Brothers Tool & Mfg Co Inc
M & M Wire Clamp Co
Nash (J M) Co
NATIONAL GYPSUM CO
Nicholls Mfg Co
Paine (Benjamin O)
Peck Stow & Wilcox Co
Plumb (Fayette R) Inc
REMINGTON ARMS CO INC
Sands Level & Tool Co
STANLEY TOOL DIV STANLEY WORKS
Stortz (John) & Son Inc
Tennessee Line & Traine Co
U S GYPSUM CO
United Wire Goods Mfg Co
Vaughan & Bushnell Mfg Co
Vernontown Tool Div Metex Corp
Vulcan Tool Mfg Co
Wheeling Corrugating Co

▶ TOOLS, PAINTERS' & PAPERHANGERS'

Atlas-Ansonia Co
Bengal Co
Black Panther Tool Co
Carlson (A B) & Co
Clyde Cutlery Co
Collmer Brothers
Colorecrete Industries Inc
Devoe & Reynolds Inc
Empire Level Mfg Co
Felton Sibley & Co Inc
Glidden Co
Goldblatt Tool Co
Harbal Mfg Co Inc
Henkel-Classe Co
Holley Chemical Co
Hyde Mfg Co
Landers Fray & Clark
Modern Specialties Co
Murray-Black Co
Parker (Ira) & Sons Co
Pioneer Tool Co Inc
PITTSBURGH PLATE GLASS CO
RED DEVIL TOOLS
Ridged Trimmer Co

Rubbernet Co
Sawgrass Co
Seidlitz Paint & Varnish Co
Selek (Walter E) & Co
Sonneborn (L) & Sons Inc
Stencel Specialty Co
Stephenson Mfg Co
Stortz (John) & Son Inc
Thomas Products Co
Tri-Ko Mfg Co
Vernontown Tool Div Metex Corp
Warner Mfg Co
Wendell Mfg Co
Wiss (J) & Sons Co

▶ TOOLS, PLUMBERS

Armstrong Brothers Tool Co
Armstrong Mfg Co
Baltimore Tool Works
Delaware Tool Steel Corp
Hood Brothers
Hydraulic Mfg Co
Mephisto Tool Co Inc
MILWAUKEE ELECTRIC TOOL CORP
P & C Hand Forged Tool Co
Peck Stow & Wilcox Co
Proto Tool Co
Rainey-Tool
Stortz (John) & Son Inc
Vaughan & Bushnell Mfg Co
Vernontown Tool Div Metex Corp
Wilde Drop Forge & Tool Co

▶ TOOLS, PNEUMATIC

Chicago Pneumatic Tool Co
Ingersoll-Rand Co
SKIL CORP
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV
Wright Power Saw & Tool Co

▶ TOOLS, ROOFING

Burrill (O F) & Brothers
Goldblatt Tool Co
INLAND STEEL PRODUCTS CO
Peck Stow & Wilcox Co
R C S TOOL SALES CORP
STANLEY TOOLS DIV STANLEY WORKS
Tri-States Bldg Material Co

▶ TOOLS, WEATHERSTRIP

Barland Weatherstrip Material Co
CECO STEEL PRODUCTS CORP
CENTRAL METAL STRIP CO
Monarch Metal Weatherstrip Corp
Protex Weatherstrip Mfg Co
Robbins Mfg Co
STANLEY TOOLS DIV STANLEY WORKS

▶ TOPS, CABINET, TABLE, COUNTER

Aetna Plywood & Veneer Co
AMERICAN CENTRAL DIV AVCO MFG CORP
ANGL NOVELTY CO
ARBORITE CO LTD
ARMSTRONG CORK CO
Boro Wood Co
BRADLEY LUMBER CO OF ARK
Continental Can Co
CURTIS COMPANIES INC
DAVIES (J A) & CO
Del-Mar Cabinet Co Inc
Douglas Distributors Corp
Eben Mfg Co
Engineered Plywood Products Co
Farley & Loetscher Mfg Co
GENERAL CO
GENERAL ELECTRIC CO SINKS & CABINET DIV
HASKELITE MFG CORP
Ingram-Richardson Mfg Co
IXL Furniture Co
Johnson & Carlson
KITCHEN MAID CORP
Korok Mfg Co
Legion Stainless Sink Corp
Lyon Metal Products Inc
MARSH WALL PRODUCTS INC
Midwest Mfg Co
MOORE (GOODLOE) E INC
Morton Mfg Co Morton Kitchen Cabinet Div
MULLINS MFG CORP
NATIONAL PLASTIC PRODUCTS CO
National Tile & Mfg Co
Ohio Rubber Co
Palley Mfg Co
Pancarte Div St Regis Sales Corp
Paragon Utilities Corp
Parkwood Corp
PITTSBURGH PLATE GLASS CO
RODDIS PLYWOOD CORP
Technical Appliance Corp
Tennessee Enamel Mfg Co
TRACY MFG CO DIV EDGEWATER STEEL CO
Twoo Work Shops Inc
U S Mengel Plywood Inc
U S PLYWOOD CORP
U S Rubber Co
WESTINGHOUSE ELECTRIC CORP
Williams Products Co Inc
WOODALL INDUSTRIES INC
Youngstown Mfg Inc

▶ TORCHES, BLOW

Aerol Products Inc
Badger Corrugating Co
Bernz (Otto) Co Inc
Cedarberg Mfg Co
Clayton & Lambert Mfg Co
Detroit Torch & Mfg Co
Everhot Mfg Co
Hauck Mfg Co
Justrite Mfg Co
Kinetic Laboratories
Leuk Mfg Co
Macleod Co
National Airoil Burner Co
PITTSBURGH PLATE GLASS CO
Turner Brass Works
Wall (F) Mfg Co

▶ TOWERS, SELF-RAISING

JAEGER MACHINE CO
PATENT SCAFFOLDING CO INC

▶ TRACTORS

ALLIS-CHALMERS MFG CO
Buda Co
Caterpillar Tractor Co
DEARBORN MOTORS CORP
Detroit Hot & Machine Co
Elwell-Parker Electric Co
Industrial Truck Div Clark Equipment Co
International Harvester Co
Lewis-Shepard Products Inc
Mack-International Motor Truck Corp
Massey-Harris Co
OLIVER CORP CLETRAC DIV

▶ TRAILERS

Case Crane & Kilbourne Jacobs Co
Daxbrook Hydraulic Corp
Dorsey Trailers
Eberhard Mfg Co Div Eastern Malleable Iron Co
Friedland Trailer Co
Kingham Trailer Co
Knox Corporation
Lansing Co
Le Toumeau (R G) Inc
Mustang Trailer Co
Nabors (W) Co
REYNOLDS METALS CO BUILDING PRODUCTS DIV
Streich (A) & Brothers Co
Texas Sheet Metal & Mfg Co
Trailmobile Co
Tully Trailer Mfg Co
Wentworth & Irwin
Wood (Gar) Industries Inc

▶ TRAPS, GREASE

CRANE COMPANY
Industrial Iron Works
NATIONAL CLAY PIPE MFRS INC
Vestal Stone Co Building Specialties Div
Zorn (J A) Mfg Co

▶ TREADS, STAIR, BRASS

CHASE BRASS & COPPER CO

▶ TREADS, STAIR, SAFETY

Alan Wood Steel Co
American Mason Safety Tread Co
BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
CAREY (PHILIP) MFG CO
CHASE BRASS & COPPER CO
CURTIS COS INC
Devoite Inc
JONES & LAUGHLIN STEEL CORP
Logan Co
Morgan Co
Safe Tread Co Inc
Serviced Products Corp
Wheeling Corrugating Co
Wuester Products Inc
Youngstown Mfg Co

▶ TREADS, STAIR, STEEL

Alan Wood Steel Co
American Abrasive Metals Co
American Mason Safety Tread Co
Blaw Knox Div Blaw Knox Co
Cole Mfg Co
Decatur Iron & Steel Co
Fremont Rubber Co
Industrial Iron Works
International Steel Co
Logan Co Inc
METAL CRAFTERS
MOORE (GOODLOE) E INC
Safe Tread Co Inc
Smith (F P) Wire & Iron Works
U S Rubber Co
Western Foundry Co
Youngstown Mfg Inc

▶ TREADS, STAIR, WOOD

BRADLEY LUMBER CO OF ARK
BRUCE (E L) CO
Burke Millwork Co
CURTIS COS INC
FAIR (D L) LUMBER CO
Farley & Loetscher Mfg Co
Frost Lumber Industries Inc
GEORGIA-PACIFIC PLYWOOD CO
Harris Mfg Co
Hines (Edward) Lumber Co
Huttig Sash & Door Co
Marquart Millwork Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

Memphis Hardwood Flooring Co
Morgan Co
Niskey Brothers Inc
Spokane Sash & Door Co

▶ TRENCHERS

ARPS CORP
HARNISCHFEGER CORP
OLIVER CORP
Sherman Products Inc

▶ TRUCK BODIES

Beall Pipe & Tank Corp
Carter Mfg Co
Farmers Lumber & Supply Co
Fordyce-Crossett Lumber Co
Fruehauf Trailer Co
Gaynor (E S) Lumber Co
General Implement Corp
Hercules Steel Products Corp
Indiana Body Co
KEWANEE MFG CO
MORRISON STEEL PRODUCTS INC
Perfection Steel Body Co
Painter-Willamette Co
Schaefler Body
Spokane Sash & Door Co
Stoughton Cab & Body Co
Streich (A) & Bros Co
Wentworth & Irwin
Wood (Gar) Industries Inc

▶ TRUCK BODIES, CONCRETE, DUMP

Dumperite Div Mazon Construction Co Inc
Supremix

▶ TRUCK BODIES, DUMP

Anthony Company
Beall Pipe & Tank Corp
Daybrook Hydraulic Corp
Dumperite Div Mazon Construction Co Inc
Farmers Lumber & Supply Co
Gallon All-Steel Body Co
Heli Co
Hercules Steel Products Corp
Houston Blow Pipe & Sheet Metal Works
KEWANEE MFG CO
Marion Metal Products Co
Perfection Steel Body Co
Painter-Willamette Co
Wood (Gar) Industries Inc

▶ TRUCK BODIES, ROLLOFF

Beall Pipe & Tank Corp
Carter Mfg Co
Fruehauf Trailer Co
Honeyman Mfg Co
R-B Company
Schaefler Body
Stimmel Winch Co
Streich (A) & Brothers Co
Wentworth & Irwin Inc

▶ TRUCKS, MOTOR

Autocar Co
Bruckway Motor Co Inc
CHEVROLET MOTOR DIV GENERAL
MOTORS CORP
CHRYSLER CORP
Diamond T Motor Car Co
DODGE BROTHERS DIV CHRYSLER CORP
Federal Motor Truck Co
FORD MOTOR CO
Four Wheel Drive Auto Co
GMC Truck & Coach Div General Motors Corp
International Harvester Co
Kenworth Motor Truck Corp
Mack-International Motor Truck Corp
Marmon-Herrington Co Inc
Milford Crane & Machine Co
PRIME MOVER CO
Reo Motors Inc
Sterling Motors Truck Corp
Stewart Motor Corp
Studebaker Corp
Ward La France Truck Corp
White Motor Co
Willys-Overland Motors Inc

▶ TRUSSES, ROOF, STEEL

Allen Steel Products
AMERICAN BRIDGE CO SUB OF U S STEEL
CORP
Bethlehem Steel Co
CECO STEEL PRODUCTS CORP
Erie Steel Construction Co
Gabriel Steel Co
Houston Blow Pipe & Sheet Metal Works
MESKER (GEORGE L) STEEL CORP
REPUBLIC STEEL CORP
ST PAUL FOUNDRY & MFG CO
Southern Wire & Iron Works
TRUSCON STEEL CO SUB REPUBLIC
STEEL CO

▶ TRUSSES, ROOF, WOOD

AMERICAN ROOF TRUSS CO
Green Lumber Co
McKeown Brothers Co
RILCO LAMINATED PRODUCTS INC
Roof Structures Inc
Super-Structures Inc
Tacoma Lumber Fabricating Co
TIMBER STRUCTURES INC
Unit Structures Inc
WEYERHAEUSER SALES CO

▶ TUBS, LAUNDRY

Alberene Stone Corp of Va
AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
Arrow Tank Co Inc
CRANE COMPANY
ELIER CO
General Ceramics & Steatite Corp Sanitary
Ware Div
Ingram-Richardson Mfg Co
Johnson & Carlson
KOHLER CO
RICHMOND RADIATOR CO
Rundlander & Sons Inc
Standard-Esmere Granite Co
Trenton Potteries Co
Vermont Soapstone Co
Wheeling Corrugating Co

▶ UNITS, UTILITY

Dwyer Products Corp
Earle Kitchen Unit Co

▶ VALLEYS, METAL ROOF

Alabama Metal Lath Co
Allen Steel Products
American Brass Co
BERGER MFG DIV REPUBLIC STEEL CORP
CECO STEEL PRODUCTS CORP
CHASE BRASS & COPPER CO
Continental Steel Corp
Gary-Pioneer Steel Corp
Goldsmith Metal Lath Co
Illinois Zinc Co
INLAND STEEL PRODUCTS CO
Mid-States Steel & Wire Co
New Holland Metals Co
NICHOLS WIRE & ALUMINUM CO
Penn Supply & Metal Corp
Potts-Farrington Co
Recent Copper & Brass Inc
REYNOLDS METALS CO BUILDING PROD-
UCTS DIV
ST PAUL CORRUGATING CO
TENNESSEE COAL IRON & RAILROAD CO
UNITED STATES STEEL CO
Wheeling Corrugating Co

▶ VALVES, PLUMBING, HEATING, ETC.

AMERICAN RADIATOR & STANDARD SANI-
TARY CORP
BELL & GOSSETT CO
Black Sivalis & Bryson Inc
Boston Brass Co Inc
CHASE BRASS & COPPER CO
Cryne & Delaney Co
CRANE COMPANY
Dole Valve Co
Durst Mfg Co
ELIER CO
Imperial Brass Mfg Co
Jenkins Brothers
Locke Regulator Co
McDonnell & Miller Inc
MINNEAPOLIS-HONEYWELL REGULATOR
CO
Mueller Brass Co
Mueller Co
Myers (F E) Brother Co
Rockford Brass Works
Schaible Co
Sloan Valve Co
Taco Heaters Inc
THURSTON (W A) CO
Trane Company
Zurn (J A) Mfg Co

▶ VANES, WEATHER

Bantam Mfg Co
Burkett Lighting Rod Co
Edwards Mfg Co
Electra Protection Co
Fiske (J W) Iron Works
Independent Protection Co
James Mfg Co
Rand-Williams Mfg Co Inc
Sameco (Wm J) Iron Co
Starline Inc
Whitehall Metal Studios Inc

▶ VAPOR BARRIERS

Air-O-Tel Co
Angier Corp
BARRETT DIV ALLIED CHEMICAL & DYE
CORP
BIRD & SON INC
CAREY (PHILIP) MFG CO
CERTAIN-TEED PRODUCTS CORP
INFRA INSULATION INC
Keystone Asphalt Products Co
Kimberly-Clark Corp
Protective Papers Inc
REYNOLDS METALS CO BUILDING PRODS
DIV
RICKKRAFT CO
SISALKRAFT INC
▶ VENEERS, HARDWOOD
Aetna Plywood & Veneer Co
Albany Plywood Co
ATLAS PLYWOOD CORP
Brand-Harmon Co
Brand (W B) Co

HIGGINS INC
MARSH WALL PRODUCTS INC
Niskey Brothers
Pearl City Plywood Co Inc
Vester Veneer & Plywood Co

▶ VENTILATORS, FOUNDATION

AIR CONTROL PRODUCTS INC
Allen Steel Products
Arex Co
BENNETT-IRELAND INC
BRUCE (E L) CO
Donley Brothers
KEWANEE MFG CO
LESLIE WELDING CO
Louden Machinery Co
MAJESTIC CO
Standard Steel Cabinet Co
U S GYPSUM CO
Vestal Stove Co

▶ VENTILATORS, GLASS BLOCK, WALL

Airflite Co
AIR RECTIFIERS INC
Arex Co
Consumers Co
HOUGH SHADE CORP
Modern Stainless Specialties Co
Monsieur Metal Weatherstrip Corp
PITTSBURGH PLATE GLASS CO
Wineo Ventilator Co

▶ VENTILATORS, PORTABLE

HERMAN NELSON

▶ VENTILATORS, ROOF, REVOLVING

Burt Mfg Co
CECO STEEL PRODUCTS CORP
Clay Equipment Corp
Dunzer Metal Works
Ilg Electric Ventilating Co
INLAND STEEL PRODUCTS CO
James Mfg Co
Klauer Mfg Co
Penn Supply & Metal Corp
ST PAUL CORRUGATING CO
Sioux Steel Co
Starline Inc
Warner Ventilator Co

▶ VENTILATORS, ROOF, WALL, AND WINDOW

Adams Co
AIR CONTROL PRODUCTS INC
Air Devices Inc
Airmaster Corp
Airflite Co
Allen Steel Products Inc
American Blower Corp
American Sheet Metal Works
ANGEL NOVELTY CO
Arex Co
Badger Corrugating Co
BERNS MFG CO
BOSTWICK STEEL LATH CO
Browm Mfg Co
Busch (A G) & Co Inc
CAREY (PHILIP) MFG CO
CECO STEEL PRODUCTS CORP
C & H Air Conditioning Fan Co
CHATTANOOGA IMPLEMENT & MFG CO
Comfort Products Corp
DAMP-VENT CO
Diehl Mfg Co Electrical Div Singer Mfg Co
Donley Brothers
Edwards Mfg Co
EMERSON ELECTRIC MFG CO
Farwell Osmun Kirk & Co
FASCO INDUSTRIES INC
Franklin Equipment Co
Harris Inc
Hemphill (A D) Co
HERMAN NELSON
Hohmann & Barnard Inc
HOPE'S WINDOWS INC
Houston Blow Pipe & Sheet Metal Works
Hudson (H D) Mfg Co
Idea Ventilator Co
Ilg Electric Ventilating Co
INLAND STEEL PRODUCTS CO
James Mfg Co
JOHNS-MANVILLE CORP
Kerchen Co
Krauser-Boyd
La Crosse Steel Roofing & Corrugating Co
Larson (Chas O) Co
LATH-BLOWER CO
LESLIE WELDING CO
Lockjoint Wood Products Co
Louden Machine Co
Lyon Konklin & Co
Metalcraft Screens Co
Modern Stainless Specialties Co Div Modern
Electric Laboratory
National Screen Co
Olson Mfg Co
Passche Airbrush Co

Peerless Electric Co
Penn Supply & Metal Corp
Pennsylvania Wire Glass Co
Phenix Mfg Co
Plymouth Stamped Metal Co
Protective Ventilator Co
PRYNE & CO INC
Riesner Vent Brick Corp
Rudens (N H) Co
St Louis Blow Pipe & Heater Co
ST PAUL CORRUGATING CO
Sameco (W J) Iron Co
Schumacher (F E) Co
Seco Lite Mfg Co
SHEPHERD MFG CO
Signal Electric Mfg Co
Smith (F A) Mfg Co
Standard Steel Cabinet Co
Starline Inc
STEWART MFG CO
SUTTON (O A) CORP
Swartout Co
Trane Company
Uno Ventilator Co
Vestal Stove Co
Ward (Edgar T) Co Inc
Warflow & Jordan
Wayne Agricultural Works
Wayne Mfg Co
Western Appliance Co Inc
WESTINGHOUSE ELECTRIC CO
Willis Steel Corp
Wineo Ventilator Co

▶ VERMICULITE

Acme Asbestos Covering & Flooring Co
Baker-Thomas Lime & Cement Co
California Zonolite Co
Dudson Mfg Co
GREAT LAKES CARBON CO
Intermountain Insulation Co
Milworth Sales Corp
Moore Dry Kiln Co
North Insulations Co
Robinson Insulation Co
Schueller (F E) & Co Inc
Southern Zonolite Co
Sullivan Co
Tanna Industries Inc
Texas Vermiculite Co
Vermiculite Institute
Vermiculite Products Corp
Vermiculite Products Inc
Western Mineral Products Co
ZONOLITE CO

▶ VISES

American Seale Co
Armstrong Mfg Co
Athol Machine & Foundry Co
Billings & Spencer Co
Champion Hardware Co
Columbian Vise & Mfg Co
Desmond-Stephan Mfg Co
General Hardware Co
Graham (John H) & Co Inc
Grand Specialties Co
Littleton Hardware Co
Millers Falls Co
North Brothers Mfg Co Div Stanley Tools
Parker (Charles) Co
Peck Blow & Wilcox Co
RICHARDS-WILCOX MFG CO
ST PAUL FOUNDRY & MFG CO
SARGENT & CO
STANLEY TOOLS DIV STANLEY WORKS

▶ WALL COPING

Acme Brick Co
American Vitriified Products Co
Bowerston Shale Co
Cannelton Sewer Pipe Co
Clay City Pipe Co
Denver Sewer Pipe & Clay Co
Dickey (W S) Clay Mfg Co
Evans Pipe Co
Lehigh Sewer Pipe & Tile Co
NATIONAL CLAY PIPE MFRS INC
National Fireproofing Co
Robinson Clay Product Co
Sealcon Products Inc
Stillwater Clay Products Co
Union Clay Mfg Corp
Washington Brick & Lime Co
What Cheer Clay Products Co

▶ WALLBOARD, ALUMINUM FOIL COVERED

CERTAIN-TEED PRODUCTS CORP
NATIONAL GYPSUM CO
U S GYPSUM CO

▶ WALLBOARD, ASBESTOS CEMENT

ASBESTONE CORP
CAREY (PHILIP) MFG CO
CELOTEX CORP
JOHNS-MANVILLE CORP
KEASBEY & WATTISON CO
RUBEROID CO

▶ WALLBOARD, FIBER CANE CELOTEX CORP

▶ WALLBOARD, FIBER INSULATING

ARMSTRONG CORK CO
Barelay Mfg Co

Manufacturers' Names and Addresses Start on Page D-61
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Bolta Products Sales Inc
CELOTEX CORP
 Cole Mfg Company
 East Coast Tileboard Corp
FLINTKOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
NATIONAL GYPSUM CO
 National Tileboard Corp
 Plasteron Wall Board Co
 Simpson Logging Co
 Superior Wall Products Co
U S GYPSUM CO
UPSON CO
WOOD CONVERSION COMPANY

▶ **WALLBOARD, FIBER, WATERPROOFED**
 UPSON CO

▶ **WALLBOARD, FIBER, WOOD**
 Actna Plywood & Veneer Co
ARMSTRONG CORK CO BUILDING MATERIAL DIV
BIRD & SON INC
 Bolta Products Sales Inc
CERTAIN-TEED PRODUCTS CORP
 Cornell Wood Products Co
DANT & RUSSELL INC
 East Coast Tileboard Corp
 Fir-Tex Insulating Board Co
FLINTKOTE CO
HOMASOTE CO
INSULITE DIV MINNESOTA & ONTARIO PAPER CO
JOHNS-MANVILLE CORP
LONG-BELL LUMBER CO
MARSH WALL PRODUCTS INC
MASONITE CORP
NATIONAL GYPSUM CO
 National Tileboard Corp
 Plasteron Wall Board Co
 Roxdale Building Products Corp
 Service Products Div Woodall Industries Inc
 Simpson Logging Co
 Superior Wall Products Co
U S GYPSUM CO
U S PLYWOOD CORP
UPSON CO
 Wallace Mfg Co
WOOD CONVERSION COMPANY

▶ **WALLBOARD, GYPSUM**
 Blue Diamond Corp
CELOTEX CORP
CERTAIN-TEED PRODUCT CORP
 Grand Rapids Plaster Co
NATIONAL GYPSUM CO
 Pabco Products Inc
 Pacific Portland Cement Co
 Schumacher Wall Board Corp
U S GYPSUM CO

▶ **WALLBOARD, LEATHER FINISH**
 Actna Plywood & Veneer Co
MASONITE CORP
 Miratile Mfg Co
 Wallace Mfg Co

▶ **WALLBOARD, MARBLE FINISH**
ARMSTRONG CORK CO
 Barelay Mfg Co
 Gibbs Boardtile Corp
JOHNS-MANVILLE CORP
MARSH WALL PRODUCTS INC
 Miratile Mfg Co
PRESTILE MFG CO
 Williams Products Co Inc

▶ **WALLBOARD, PAPER**
CERTAIN-TEED PRODUCTS CORP
 Cornell Wood Products Co
 Fleming & Sons Inc
 Plasteron Wall Board Co
U S PLYWOOD CORP
UPSON CO

▶ **WALLBOARD, WOODGRAIN FINISH**
ARMSTRONG CORK CO BUILDING MATERIAL DIV
CERTAIN-TEED PRODUCTS CORP
FORMICA CO
 Gibbs Boardtile Corp
HASKELITE MFG CORP
HOMASOTE CO
MARSH WALL PRODUCTS INC
NATIONAL GYPSUM CO
PRESTILE MFG CO
 Service Products Div Woodall Industries Inc
U S GYPSUM CO
 Williams Products Co Inc

▶ **WALLPAPER**
 Birge Co Inc
 Buffalo Wallcraft Co Inc
 Buffalo Wall Paper Mfg Co
 Century Wallpaper Mills
 Cook Paint & Varnish Co
 Devoe & Reynolds Inc

Di-Noc Co
 Globe Mills Inc
 Ideal Co
 Imperial Paper & Color Corp Pigment Color Div
 Joliet Wall Paper Mills
 Kimberly-Clark Corp Kimsul Div
 Lennon Wallpaper Co
 Midwest Wall Paper Co
PITTSBURGH PLATE GLASS CO
 Plattsburg Wallpaper Co
 Prager Co
 Sandura Co Inc
SHERWIN WILLIAMS CO
 Stamford Wallpaper Co
 Standard Coated Products Div Inter-Chemical Corp
 Star-Peerless Wallpaper Mills
 Stotter Wallpaper Mills
 Trimz Co Inc
 United Wallpaper Inc
 Varlar Inc
 Watson (Geo E) Co
 York Wall Paper Co

▶ **WALLPAPER, READY-PASTED**

Trimz Co Inc
 United Wallpaper Inc

▶ **WALLPAPER REMOVERS**

Royer Chemical Laboratory Co
 Consumers Glose Co
 Devoe & Reynolds Co Inc
 Durasol Chemical Co
 Fuller (H B) Co
 Glidden Co
 Le Page's Inc
 Linek (O B) Co Inc
 Patent Cereals Co
PITTSBURGH PLATE GLASS CO
 Pyramid Process Co Inc
RED DEVIL TOOLS
 Reliable Paint & Chemical Co
 Sebalk Chemical Co
 Spurgeon (N B) Co
 Tamms Industries Inc
 United Gilsonite Laboratories
 Warner Mfg Co

▶ **WARDROBES**

Austral Sales Corp
BERGER MFG DIV REPUBLIC STEEL CORP
 Carsham Mfg Co
CARR ADAMS & COLLIER CO
 Decorative Cabinet Corp
 Equipment Mfg Co Inc
 Lee Metal Products
 Lyon Metal Products
MENDEL CO
 Midwest Mfg Co
RICHARDS-WILCOX MFG CO
 Stut-Aid Inc
 Woodcraft Mfg Co

▶ **WASHERS, CLOTHES**

Alforter Brothers Co
APEX ELECTRICAL MFG CO
 Automatic Washer Co
 Barlow & Seelig Mfg Co
BENDIX HOME APPLIANCES INC DIV
AVCO MFG CORP
 Blackstone Corp
 Conlon Bros Mfg Co
 Conlon-Moore Corp
CROSLEY DIV AVCO MFG CORP
 Easy Washing Machine Corp
 Fairbanks Morse & Co
 Frigidaire Div General Motors Corp
GENERAL ELECTRIC CO APPLIANCES & MERCHANDISE DEPT
 General Implement Corp
HOTPOINT INC
KELVINATOR DIV WASH-KELVINATOR CORP
 Landers Fray & Clark
 Maytag Co
 Naxon Utilities Corp
 Nineteen Hundred Corp
NORGE DIV BORG-WARNER CORP
 Pressed Steel Co
 Thor Corp
WESTINGHOUSE ELECTRIC CORP
 Whirlpool Corp

▶ **WATER CONDITIONERS**

Gilco Co
 Permutit Co
RHEEM MFG CO

▶ **WATER SUPPLY SYSTEMS**

Aermotor Co
 Aurora Pump Co
 Baker Mfg Co
 Barnes Mfg Co
 Chicago Pump Co
CRANE COMPANY
 Dayton Pump & Mfg Co
DECATUR PUMP CO
DELCO APPLIANCE DIV GENERAL MOTORS CORP
 Deming Co
 Dempster Mill Mfg Co
 Edwards Co
 Erie Pump & Engine Works
 Everite Pump & Mfg Co Inc

Fairbanks Morse & Co
FLINT & WALLING MFG CO
 Gardner-Denver Co
 Gorman-Rupp Co
 Goulds Pumps Inc
 Heil Company
 Hudson (H D) Mfg Co
 Hummer Mfg Co
 Hydro Engineering Inc
 Jacuzzi Brothers Inc
 Lancaster Pump & Mfg Co
 McDonald (A Y) Mfg Co
 Myers (F E) & Brother Co
 Olix Co
 Pioneer Gen-E-Motor Corp
 Pomona Pump Co
 Red Jacket Mfg Co
 Robbins & Myers Inc
 Saco-Lowell Shops
 Shtetler (M) & Sons Co
 Wayne Home Equipment Co
WORTHINGTON CORP CONSTRUCTION EQUIPMENT SALES DIV

▶ **WATERPROOFING COMPOUNDS, BASEMENT CISTERN**

Abesto Mfg Corp
 Adensite Co
 American Fluorite Co
AMERICAN STA-DRI CO
 Anti-Hydro Waterproofing Co
BARRETT DIV ALLIED CHEMICAL & DYE CORP
 Belmont Smelting & Refining Works
CABOT (SAMUEL) INC
 Camp Chemical Co Inc
CAREY (PHILIP) MFG CO
 Ceresit Waterproofing Corp
 Coddington (E D) Mfg Co
 Colterite Industries Inc
 Continental Asbestos & Refining Corp
 Coopers Creek Chemical Corp
 Coprox
 Devoe & Reynolds Inc
FLINTKOTE CO
 Forman-Ford & Co
 Fort Pitt Chemical Co
 Haynes Products Co
 Horn (A C) Co
 International Aquella Products Inc
KAY-TITE CO
 Materials & Treatment Co
NOVA SALES INC
PECORA PAINT CO INC
PITTSBURGH PLATE GLASS CO
 Prima Products Inc Industrial Dept
PROTECTION PRODUCTS MFG CO
 Ranette Mfg Co
 Reilly Tar & Chemical Corp
 Rex Products Co
 Silka Inc
 Smooth-on Mfg Co
 Sonneborn (L) Sons Inc
 Standard Dry Wall Products
 Sullivan Co
 Tamms Industries Inc
 Technical Supply Co
 Truscon Laboratories Div Devoe & Reynolds Inc
 Tutacete Co
 Vita-Var Corp
 Waterlox Div Empire Varnish Co
 Weather-Seal Co
 X-Pando Corp

▶ **WATERPROOFING, INTEGRAL**

Adensite Co
 American Fluorite Co Inc
AMERICAN STA-DRI CO
 Anti-Hydro Waterproofing Co
 Blue Ridge Talc Co Inc
 Bolta Products Sales Inc
 Ceresit Waterproofing Corp
 Coprox Inc
 Dow Chemical Co
 Evercrete Corp
 Fort Pitt Chemical Co
 Harrop Chemical Co
 Horn (A C) Co Inc
JOHNS-MANVILLE CORP
KAY-TITE CO
 Leiton Co
 Linde Air Products Co
MEDUSA PORTLAND CEMENT CO
 Minneapolis Builders Supply Co
OHIO HYDRATE & SUPPLY CO
PITTSBURGH PLATE GLASS CO
 Prima Products Inc
PROTECTION PRODUCTS MFG CO
 Ranette Mfg Co
 Sealcon Products Inc
 Sonneborn (L) Sons Inc
 Spray-O-Bond Co
STANDARD DRY WALL PRODUCTS INC
 Steeleco Mfg Co
 Stionhard Co
 Sullivan Co
 Tamms Industries Inc
 Toch Brothers Inc
 Truscon Laboratories Div Devoe & Reynolds Inc
 Tutall Inc
 Vita-Var Corp
 Wayne Chemical Products Co
 Weather Seal Co

▶ **WATERPROOFING, MEMBRANE**

AMERICAN ASPHALT ROOF CORP
CABOT (SAMUEL) INC
BARRETT DIV ALLIED CHEMICAL & DYE CO
CAREY (PHILIP) MFG CO
 Celadri Corp
 Evercrete Corp
FLINTKOTE CO
 Horn (A C) Co Inc
JOHNS-MANVILLE CORP
KAY-TITE CO
 Koppers Co Inc
 Lebon Co
 Minwax Co Inc
PITTSBURGH PLATE GLASS CO
 Prestite Engineering Co
 Ranette Mfg Co Inc
 Rubber & Plastic Coated Products Co Inc
 Sealcon Products Inc
SISALKRAFT CO
 Sonneborn (L) Sons Co
TEXAS CO
 Tremco Mfg Co
 Truscon Laboratories Div Devoe & Reynolds Co
 Vita-Var Corp
 Wasco Flashing Co

▶ **WATERPROOFING, METALLIC**

Belmont Smelting & Refining Works Inc
 Ceresit Waterproofing Corp
 Evercrete Corp
 Fort Pitt Chemical Co
 Gibson-Homans Co
 Horn (A C) Co
 Kedmont Mfg Waterproofing Co Inc
 Leiton Co
 Ranette Mfg Co Inc
 Sealcon Products Inc
SISALKRAFT CO
 Sonneborn (L) Sons Inc
 Tamms Industries Inc
 Truscon Laboratories Div Devoe & Reynolds Inc
 Weather Seal Co

▶ **WATERPROOFING, SURFACE TYPE**

Abesto Mfg Corp
 Adensite Co Inc
AMERICAN ASPHALT ROOF CORP
 American Fluorite Co Inc
AMERICAN STA-DRI CO
 Anti-Hydro Waterproofing Co
 Armor Laboratories Inc
BARRETT DIV ALLIED CHEMICAL & DYE CORP
BIRD & SON INC
 Bolta Products Sales Inc
 Breinig Brothers Inc
CABOT (SAMUEL) INC
CALBAR PAINT & VARNISH CO
 Camp Chemical Co Inc
CAREY (PHILIP) MFG CO
 Cemix Co
 Ceresal Chemical Corp
 Ceresit Waterproofing Corp
CERTAIN-TEED PRODUCTS CORP
 Chapman Chemical Co
 Coopers Creek Chemical Corp
 Devoe & Reynolds Co Inc
 Donley Brothers
 Dow Chemical Co
 Evercrete Corp
FLINTKOTE CO
 Forman-Ford & Co
 Fort Pitt Chemical Co
 Gibson-Homans Co
 Glastic Corp
 Glidden Co
 Harrop Chemical Co
 Horn (A C) Co Inc
 Hydrom Products Inc
JOHNS-MANVILLE CORP
KAYTITE CO
 Lastik Products Co Inc
 Lasting Products Co
 Leiton Co
 Linde Air Products Co
 Lowbebe Inc
 Mar-Kay Mfg Co
MEDUSA PORTLAND CEMENT CO
 Minneapolis Builders Supply Co
 Minwax Co Inc
MIRACLE ADHESIVES CORP
 Mixite Corp
MOORE (GOODLOE E) CO
 Nelsonite Chemical Products Inc
 Pavinoleum Inc
PECORA PAINT CO
 Pioneer Mfg Co
PITTSBURGH PLATE GLASS CO
 Prestite Engineering Co
 Prima Products Inc
PROTECTION PRODUCTS MFG CO
 Protective Papers Inc
 Ranette Mfg Co
 Reardon Co
 Reobond Products Co
RUBENOID CO
 Rust-Oleum Corp
 Seaboard Plastics Corp
 Sealcon Products Inc
 Sonneborn (L) Sons Inc
 Spray-O-Bond Co
STANDARD DRY WALL PRODUCTS INC
 Steeleco Mfg Co
 Stionhard Co

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

Stonall Waterproofing Mfrs Inc
Sullivan Co
Super Concrete Emulsions
Surface Protection Co
Tammis Industries Inc
TEXAS CO
Truscon Laboratories Div Devco & Reynolds
Inc
Tufcrete Co Inc
Tuffalt Inc
United Gilsonite Laboratories
Vita-Var Corp
Waterlox Div Empire Varnish Co
Wayne Chemical Products Co
WEATHER SEAL INC
Webster (W F) Cement Co
Werner Canvas Products Co
Wesco Waterpails Inc
Wilbur & Williams Co
Wurdack Chemical Co
X-Fando Corp

▶ WATERPROOFING, TRANSPARENT

Adensite Co Inc
American Fluorist Co Inc
AMERICAN STA-DRY CO
Anti-Hydro Waterproofing Co
Bolts Products Sales Inc
CARDT (SAMUEL) INC
CALBARD PAINT & VARNISH CO
Celadri Corp
Cerasal Chemical Corp
Ceresit Waterproofing Corp
Con-Cor Paint Co
Continental Asbestos & Refining Corp
Evercrete Corp
Forman-Ford & Co
Fort Pitt Chemical Co
General Paint Corp
Gibson-Homans Co
Glidden Co
Harrop Chemical Co
Haynes Products Co
Horn (A C) Co
Linde Air Products Co
Keystone Asphalt Products Co
Lumino Co
Mar-Kay Mfg Co
Minwax Co Inc
Mobile Paint Mfg Co
PECORA PAINT CO INC
Prima Products Inc
PROTECTION PRODUCTS MFG CO
Ranette Mfg Co
Sealcon Products Inc
Sonneborn (L) Sons Inc
STANDARD DRY WALL PRODUCTS INC
Sullivan Co Inc
Tammis Industries Inc
Truscon Laboratories Div Devco & Reynolds
Inc
Tufcrete Co Inc
Vita-Var Corp
Waterlox Div Empire Varnish Co
Wurdack Chemical Co
X-Fando Corp

▶ WEATHERSTRIPPING

Accurate Metal Weatherstrip Co
ALLMETAL WEATHERSTRIP CO
American Metal Weather Strip Co
Athey Mfg Co
Baltz (R N) & Co
Barland Weatherstrip Material Co
Barrington Paints Inc
CENTRAL METAL STRIP CO
Chamberlin Co of America
Chicago Metal Strip Co
Defiance Metal Weatherstrip Co
Dennis (W J) & Co
Dorbin Metal Strip Mfg Co
Durkee-Atwood Co
Dyke Brothers
E-Z Tight
Gardner Wire Co
Glaziers' Tool Mfg Corp
Ideal Co
Katz Screen & Weatherstrip Co
Lock Joint Window Co
MACKLANBURG-DUNCAN CO
MASTER METAL STRIP SERVICE INC
MILWAUKEE STRIP SERVICE INC
Monarch Metal Weatherstrip Corp
MORTELL (J W) CO
National Guard Products
National Metal Products Co
Nichols Metal Strip Service
N S W Co
Prestite Engineering Co
Protect Weatherstrip Mfg Co
Reese Metal Weatherstrip Co
Rhodes (James H) & Co
Robbins Mfg Co
R O W SALES CO
Samsou Products Co
Security Co
Southern Metal Products Corp
Spaniers (A J) Co
Van Cleef Brothers Inc
Warnica Products
WEATHERPROOF PRODUCTS CORP
Window Conditioning Co
ZEGERS INC

▶ WEATHERSTRIPPING, COMBINATION SASH BALANCE

ALLMETAL WEATHERSTRIP CO
CENTRAL METAL STRIP CO
MASTER METAL STRIP SERVICE INC

MILWAUKEE STRIP SERVICE INC
WEATHERPROOF PRODUCTS CORP
ZEGERS INC

▶ WEATHERSTRIPPING, DOOR AND DOOR BOTTOM

Accurate Metal Weatherstrip Co
Baltz (R N) & Co
CECO STEEL PRODUCTS CORP
CENTRAL METAL STRIP CO
Colgate Mfg Corp
Dennis (W J) & Co
Dorbin Metal Strip Mfg Co
MACKLANBURG-DUNCAN CO
MASTER METAL STRIP SERVICE INC
Security Co
Sentry Stop-A-Draft Co
Thermal Co
WAGNER MFG CO
Waterloo Sales Co
WEATHERPROOF PRODUCTS CORP
Werner (R B) Co Inc
ZEGERS INC

▶ WHEELBARROWS

American Steel Scraper & Wheelbarrow Co
Atlas Car & Mfg Co
Chattanooga Wheelbarrow Co
French & Hecht Div Kelsey-Hayes Wheel Co
Goodrich (B F) Co
Goodyear Tire & Rubber Co
Jackson Mfg Co
KEWANEE MFG CO
Lansing Co
New Engine Co
PRIME MOVER CO
Reynolds Mfg Co Inc
Sterling Wheelbarrow Co
Toledo Wheelbarrow Co
Western Wheel Barrow Mfg Co

▶ WHEELS, GRINDING

Abrasive Products Inc
Albertson & Co Inc
ALIS-CHALMERS MFG CO
American Emery Wheel Works
Bay State Abrasive Products Co
BRADFORD MACHINE TOOL CO
Bridgeport Safety Emery Wheel Co
Carborundum Co
Chicago Wheel & Mfg Co
Cortland Grinding Wheels Corp
Deere & Co
DREMEL MFG CO
Fairbanks Morse & Co
General Hardware Co
Goodrich Grinding Wheel Co
Hanchett Mfg Co
INDEPENDENT PNEUMATIC TOOL CO
Macklin Co
Mid-West Abrasive Co
Norton Co
SIMONDS ABRASIVE CO DIV SIMONDS
SAW & STEEL CO
SKIL CORP
Sterling Grinding Wheel Div Cleveland Quarries Co
Vitrified Wheel Co

▶ WINCHES, HAND

Bridgeport Chain & Mfg Co
Clyde Iron Works Inc
Erie Hoist Co
Stephens-Adamson Mfg Co

▶ WINCHES, TRACTOR AND TRUCK

American Hoist & Derrick Co
Bridgeport Chain & Mfg Co
Four Wheel Drive Auto Co
Fruehauf Trailer Co
Hyster Co
OLIVER CORP CLETRAC DIV
Original Enders Co
Round (David) & Son
Shepard Niles Crane & Hoist Corp
Silent Hoist & Crane Co
Stimmel Winch Co
Wood (Gar) Industries

▶ WINDOW OPERATORS

Bommer Spring Hinge Co Inc
Casement Hardware Co
Chicago Spring Hinge Co
CORBIN (P & F) DIV AMERICAN HARD-WARE CORP
Croft Steel Products Inc
GETTY (W S) & CO INC
Glynn-Johnson Corp
Hardware Products Inc
Harris Inc
Horton Mfg Div Aveco Corp
Ives (H B) Co
Kaptur (Joseph J) Sales Co
Kolbus (K) Corp
L'N Closers Inc
LOCKWOOD HARDWARE MFG CO
Newell Mfg Co
New England Mfg & Supply Corp
Norton Door Closer Co
Norwalk Lock Co Div Segal Lock & Hardware Co

Parker (S) Hardware Mfg Co
Reading Hardware Corp
Rene-Craft Products
RICHARDS-WILCOX MFG CO
RUSSELL & ERWIN DIV AMERICAN HARD-WARE CORP
SAGER-BARROWS DIV YALE & TOWNE MFG CO
SARGENT & CO
Segal Lock & Hardware Co Inc
Shelby Springs & Co
STANLEY WORKS DOOR CONTROL DIV
WAGNER MFG CO

▶ WINDOW SASH PULLEYS

Champion Hardware Co
Chantrell Hardware & Tool Co
Cleveland Lock Works
CORBIN (P & F) DIV AMERICAN HARD-WARE CORP
GETTY (W S) & CO INC
Grand Rapids Hardware Co
GRANT PULLEY & HARDWARE CO
HAGER (C) & SONS HINGE MFG CO
Industrial Iron Works
LOCKWOOD HARDWARE MFG CO
London Machinery Co
NATIONAL LOCK CO
Penn Hardware Co
Phoenix Lock Co
Protex Weatherstrip Mfg Co
Reading Hardware Corp
RUSSELL & ERWIN DIV AMERICAN HARD-WARE CORP
STANLEY WORKS

▶ WINDOW SCREENS, ALUMINUM FRAME

ALUMATIC CORP OF AMERICA
Aluminum Window Corp
Barnhart (A W) Co
Kane Mfg Corp
Kaufmann Corp
LUDMAN CORP
Metalcraft Screen Co
REYNOLDS METALS CO BUILDING PRO-DUCTS DIV
RUDIGER-LANG CO
Screens & Fabricated Metals Corp
Steel Window Products Co
Winnulite Mfg Co

▶ WINDOW SCREENS, ROLLING

Barnhart (A W) Co
Kane Mfg Corp
KEYSTONE WIRE CLOTH CO
Lockhart Mfg Corp
Marble Screen Co
ROLSGREEN CO
RUDIGER-LANG CO
Rylock Co Ltd
Steel Window Products Co
Universal Roller Screen Co

▶ WINDOW SCREENS, STEEL FRAME

A B C Steel Equipment Co
ALUMATIC CORP OF AMERICA
Barnhart (A W) Co
CECO STEEL PRODUCTS CORP
Chamberlin Co of America Inc
Cincinnati Fly Screen Div Russell (F C) Co
Compo-Miracle Products Co
Cornwall Screen Co
COPCO STEEL & ENGINEERING CO
Croft Steel Products Inc
Dennis (W J) & Co
Donley Brothers
FENESTRA BUILDING PRODUCTS
Gabriel Steel Co
Goodcraft Metal Products Co
Holister Coil Spring Mfg Co
HOPE'S WINDOWS INC
Ingersoll Steel Div Borg-Warner Corp
Johnson Metal Products Co
Kane Mfg Corp
KEWANEE MFG CO
KEYSTONE WIRE CLOTH CO
Meads Brothers
METAL ARTS MFG CO
Metalcraft Screen Co
METAL PRODUCTS CORP
NEW MONARCH MACHINERY & STAMPING CO
Orange Screen Co
Robbins Mfg Co
RUDIGER-LANG CO
RUSSELL (F C) CO
Screens & Fabricated Metals Corp
Security Sash & Screen Co
STEELCRAFT MFG CO
TRUSCON STEEL CO
Universal Fabricators
Wilson (L S) Mfg Co

▶ WINDOW SCREENS, SUN REFLECTING

Flex-O-Glass Mfg Co
Ingersoll Steel Div Borg-Warner Corp
KAISER ALUMINUM & CHEMICAL CORP
Warp Brothers

▶ WINDOW SCREENS, WOOD FRAME

ALUMATIC CORP OF AMERICA
American Sash & Door Co
ANGEL NOVELTY CO
Barnhart (A W) Co
Burke Millwork Co
CARR ADAMS & COLLIER CO
COFFMAN (H C) CO
Cole Mfg Co
Continental Screen Co
CROSSETT LUMBER CO
Crown Shade & Screen Co
CURTIS COS INC
Dennis (W J) & Co
Farley & Loetscher Mfg Co
Fordyce-Crossett Lumber Co
General Woodcraft Co
GREGG & SON
Hemphill (A D) Co
Holister Coil Spring Mfg Co
Huttig Mfg Co
Huttig Sash & Door Co
Ideal Co
KEYSTONE WIRE CLOTH CO
Kinza Pine Mills Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Morgan Sash & Door Co
NATIONAL SCREEN & CO INC
National Screen Door Co
Northern Sash & Door Co
Northwest Door Co
Orange Screen Co
Pacific Mutual Door Co
Phenix Mfg Co Inc
Prentice (F W) & Co
Roach & Musser Co
Roebing Mfg Co
Robinson Mfg Co
Rock Island Millwork Co
RUDIGER-LANG CO
RUSSELL (F C) CO
Schumacher (F E) Co
Seneca Lumber & Millwork Co
Silerest Co
Spokane Sash & Door Co
Universal Fabricators
Weather-Proof Co
West Coast Screen Co
Wheeler Osgood Co
White Pine Sash Co

▶ WINDOW SILLS & STOOLS, METAL

Accurate Metal Weather Strip Co
AETNA STEEL PRODUCTS CORP
Alexander Sill Co
Aluminum Co of America
BUILDERS MFG CO
Donley Brothers
FENESTRA BUILDING PRODUCTS
INLAND STEEL PRODUCTS CO
Knapp Brothers Mfg Co
Soule Steel Co
TRUSCON STEEL CO
Wollaefer Steel Corp

▶ WINDOW SURROUNDS, STEEL

BUILDERS MFG CO
HOPE'S WINDOWS
INLAND STEEL PRODUCTS CO
TRUSCON STEEL CO

▶ WINDOWS, ALUMINUM, GLASS LOUVERS

Clearview Lower Window Co
HEARMET CORP
Outside Venetian Blind Co
Solar Air-Flu

▶ WINDOWS, AWNING, METAL

AIR CONTROL PRODUCTS INC
All-Lite Metal Window Co
Aluminum Window Corp
Brown & Grist
Croft Steel Products Inc Sub Landell-Eckberg
Mfg Co
FAWSCO MFG DIV FALLS STAMPING & WELDING CO
FENESTRA BUILDING PRODUCTS
Fentron Steel Works Inc
Harris Inc
INDUSTRIAL MACHINE TOOL CO INC
WINDOW DIV
LUDMAN CORP
MIAMI WINDOW CORP
Ron-del Inc
Stewart Iron Works Co Inc
Super-Vent Co
Trim-Set Corp Sub Fentron Steel Works
Inc
TRUSCON STEEL CO
Valley Metal Products Co

▶ WINDOWS, AWNING, WOOD

ANDERSEN CORP
CARR ADAMS & COLLIER CO
Fox Brothers Mfg Co
GATE CITY SASH & DOOR CO
LUDMAN CORP
ROLSGREEN CO

Manufacturers' Names and Addresses Start on Page D-61

Manufacturers' Brand Name Identifications Start on Page D-52

▶ WINDOWS, BARN, STEEL

Adams Co
CECO STEEL PRODUCTS CORP
Clay Equipment Corp
COPCO STEEL & ENGINEERING CO
Crittall Inc
Croft Steel Products Inc
Donley Brothers
FENESTRA BUILDING PRODUCTS
Gundercraft Metal Products Co
HOPE'S WINDOWS INC
H & R Mfg Co
Hudson (H D) Mfg Co
INLAND STEEL PRODUCTS CO
James Mfg Co
Kaptor (Joseph J) Sales Co
KEWANEE MFG CO
Klauer Mfg Co
Louden Machinery Co
Mesker Brothers
Ney Mfg Co
Olson Mfg Co
Starline Inc
STEELCRAFT MFG CO
TRUSCON STEEL CO
UNION ALUMINUM CO
Valley Metal Products Co Inc
VENTO STEEL PRODUCTS CO INC

▶ WINDOWS, BARN, WOOD

American Sash & Door Co
ANDERSEN CORP
Buefflen Lumber & Mfg Co
Burke Millwork Co
CARR ADAMS & COLLIER CO
Cole Mfg Co
CURTIS COS INC
Farley & Loetscher Mfg Co
GREGG & SON INC
Hines (Edward) Lumber Co
Huttig Mfg Co
Ideal Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Morgan Co
Morgan Sash & Door Co
National Screen Door Co
Northern Sash & Door Co
Northwest Door Co
Phenix Mfg Co
Roach & Musser Co
Rock Island Millwork Co
Segelke & Kohlhaas Co
Silerest Co
Spokane Sash & Door Co
White Pine Sash Co

▶ WINDOWS, BASEMENT, ALUMINUM

ALCASCO PRODUCTS INC
Aluminum Window Corp
CROFT STEEL PRODUCTS INC
FLYNN (MICHAEL) MFG CO
Kaufmann Corp
KEWANEE MFG CO
UNION ALUMINUM CO
Valley Metal Products Co

▶ WINDOWS, BASEMENT STEEL

Adams Co
Barnhart (A W) Co
Bogert & Carrough Co
Brearley Iron & Steel Co
Fries & Son
International Steel Co
KEWANEE MFG CO
THORN (J S) CO
TRUSCON STEEL CO SUB REPUBLIC STEEL CORP
Valley Metal Products Co
VENTO STEEL PRODUCTS CO INC

▶ WINDOWS, BASEMENT, WOOD

ANDERSEN CORP
Anderson (V E) Mfg Co
ANGEL NOVELTY CO
Burke Millwork Co
CARR ADAMS & COLLIER CO
Cole Mfg Co
CURTIS COS INC
ETLING WINDOW
Farley & Loetscher Mfg Co
GREGG & SON INC
Hines (Edward) Lumber Co
Huttig Mfg Co
Ideal Co
Kinna Pine Mills Co
LONG-BELL LUMBER CO
Long Lake Lumber Co
Marquart Millwork Co
Morgan Co
Northern Sash & Door Co
Northwest Door Co
Pacific Mutual Door Co
Radford Co
Roach & Musser Co
Rock Island Millwork Co
ROLSCREEN CO
Segelke & Kohlhaas Co
Silerest Co
WEYERHAEUSER SALES CO
White Pine Sash Co

▶ WINDOWS, BASEMENT AND UTILITY, STEEL

Adams Co
ALCASCO PRODUCTS INC

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▶ WINDOWS, CASEMENT, WOOD

American Sash & Door Co
ANDERSEN CORP
Biles-Coleman Lumber Co Inc
BROWN-GRAVES CO
Burke Millwork Co
CARR ADAMS & COLLIER CO
Cole Mfg Co
CURTIS COS INC
Farley & Loetscher Mfg Co
GREGG & SON INC
Hines (Edward) Lumber Co
Huttig Mfg Co
Huttig Sash & Door Co
Ideal Co
Keystone Frame & Mfg Co
Kinna Pine Mills Co
LONG-BELL LUMBER CO
MALTA MFG CO
Marquart Millwork Co
Morgan Co
Morgan Sash & Door Co
Northern Sash & Door Co
Northwest Door Co
Pacific Mutual Door Co
Pallum Windows Inc
Pallum Window Corp
Quigley (J R) Co
Radford Co
Roach & Musser Co
Rock Island Millwork Co
ROLSCREEN CO
Segelke & Kohlhaas Co
Silerest Co
Snedaker (Frank C) & Co
Spokane Sash & Door Co
Wabash Co
WEATHER-SEAL INC
White Pine Sash Co

▶ WINDOWS, COMBINATION SCREEN AND STORM SASH, ALUMINUM

Also Inc
ALUMATIC CORP OF AMERICA
Aluminum Window Corp
CECO STEEL PRODUCTS CORP
Compo-Miracle Products Co
GENERAL BRONZE CORP
Eagle-Picher Co
Holister Coil Spring Mfg Co
McKinley (Orman O) Co
RUSSELL (F C) CO
Self Storing Window
Steel Window Products Co
Sterling Windows Co Inc
Storm Windows of Aluminum Inc
THORN (J S) CO
V-Seal Corp
Wateo Engineering Inc
Weather-Proof Co
Winstrom Mfg Corp
Winsulite Mfg Co

▶ WINDOWS, COMBINATION SCREEN AND STORM SASH, STEEL

Allred Metal Fabricators Inc
ALUMATIC CORPORATION OF AMERICA
Barnhart (A W) Co
Bayley (William) Co
Chamberlin Co of America Inc
Clay Equipment Corp
COPCO STEEL & ENGINEERING CO
Corry-Jamestown Mfg Corp
FENESTRA BUILDING PRODUCTS
GENERAL BRONZE CORP ALWINTITE DIV
Ingersoll Steel Div Borg-Warner Corp
Kane Mfg Corp
Kaptor (Joseph J) Sales Co
Kaufmann Corp
KEWANEE MFG CO
Michel & Pfeiffer Iron Works
Robbins Mfg Co
TRUSCON STEEL CO

▶ WINDOWS, COMBINATION SCREEN AND STORM SASH, WOOD

ANDERSEN CORP
Anderson (V E) Mfg Co
ANGEL NOVELTY CO
BROWN GRAVES CO
BUCKEYE SCREEN & WEATHERSTRIP CO
Burke Millwork Co
Burros Corp
CARR ADAMS & COLLIER CO
CURTIS COS INC
Farley & Loetscher Mfg Co
Feather-Lite Mfg Co
GREGG & SON INC
Hempbill (A D) Co
Hess Mfg Co
HOPE'S WINDOWS INC
Huttig Mfg Co
Marquart Millwork Co
Northern Sash & Door Co
Orange Screen Co

Phenix Mfg Co
Prentice (F W) & Co
Rock Island Millwork Co
Schumacher (F E) Co
Security Sash & Screen Co
Self Storing Window Co
Silerest Co
Seneca Lumber & Millwork Co
Silerest Co
Spokane Sash & Door Co
Wabash Screen Door Co
Weather-Seal Inc
Window Conditioning Co
Wonder Window Co
Yardley Industries

▶ WINDOWS, DOUBLE-GLAZED, HERMETICALLY SEALED

CARR ADAMS & COLLIER CO
LIBBEY-OWENS FORD GLASS CO
OHIO PLATE GLASS CO
PITTSBURGH PLATE GLASS CO

▶ WINDOWS, DOUBLE-HUNG, ALUMINUM

A B C Steel Equipment Co Inc
ADAMS & WESTLAKE CO
ALCASCO PRODUCTS INC
Also Inc
Aluminum Window Corp
Bayley (William) Co
CECO STEEL PRODUCTS CORP
Clark-Babbitt Industries Inc
Compo-Miracle Products Co
Croft Steel Products Inc
Cupples Products Corp
Eagle-Picher Co
FLEET OF AMERICA INC
Flour City Ornamental Iron Co
FLYNN (MICHAEL) MFG CO
GENERAL BRONZE CO
Harris Inc
HIGGINS INC
Holister Coil Spring Mfg Co
HOPE'S WINDOWS INC
Kaufmann Corp
KEWANEE MFG CO
METAL ARTS MFG CO
Ni-Era Window Co
Paramount Casement Window Corp
Pennsylvania Wire Glass Co
PER-FIT PRODUCTS CORP
PETERSON WINDOW CO
REYNOLDS METALS CO BUILDING PRODUCTS DIV
RUSSELL (F C) CO
Sterling Windows Inc
THORN (J S) CO
Timm Industries
Trim-Set Corp Sub Pentron Steel Works Inc
Union Aluminum Co Inc
V-Seal Corp
Valley Metal Products Co
Ware Laboratories Inc
Wateo Engineering Inc
Weather-Proof Co
Windalume Corp
Window Corp of America

▶ WINDOWS, DOUBLE HUNG, SAFETY

International Safety Window Corp

▶ WINDOWS, DOUBLE HUNG, STEEL

ADAMS & WESTLAKE CO
American Sheet Metal Works
Fomeroy (S B) Co Inc
Potts-Farrington Co
RUSSELL (F C) CO
Soule Steel Co
Southern Wire & Steel Products Co
Steel Window Products Co
Sterling Windows Inc
THORN (J S) CO
TRUSCON STEEL CO

▶ WINDOWS, DOUBLE HUNG, WOOD

Ace Seal-Bite Sales & Window Mfg Co Inc
American Sash & Door Co
ANDERSEN CORP
Anson & Gilkey Co
A B H Window Sales Co
Bach (Semon) & Co
Biles-Coleman Lumber Co Inc
BINSWANGER & CO
BROWN GRAVES CO
Buefflen Lumber & Mfg Co
Burke Millwork Co
CARR ADAMS & COLLIER CO
Cole Mfg Co
CURTIS COS INC
Deer Park Pine Industry Inc
Dixco Industries
ETLING WINDOW
Farley & Loetscher Mfg Co
General Woodcraft Co
Goshen Sash & Door Co
GREGG & SON INC
Hines (Edward) Lumber Co
Hotchkiss Brothers Co
Hurd Millwork Corp
Huttig Mfg Co

Bayley (William) Co
BOSTWICK STEEL LATH CO
CECO STEEL PRODUCTS CORP
Clay Equipment Corp
COPCO STEEL & ENGINEERING CO
Crittall Inc
Croft Steel Products Inc
Donley Brothers
FENESTRA BUILDING PRODUCTS
FLYNN (MICHAEL) MFG CO
Gabriel Steel Co
Gundercraft Metal Products Co
HOPE'S WINDOWS INC
H & R Mfg Co
INLAND STEEL PRODUCTS CO
Kaptor (Joseph J) Sales Co
KEWANEE MFG CO
MAJESTIC CO
Mesker Brothers
Modern Stainless Specialties Co Div Modern
Electric Laboratory
NEW MONARCH MACHINE & STAMPING CO
Soule Steel Co
STEELCRAFT MFG CO
TRUSCON STEEL CO SUB REPUBLIC STEEL CORP
U S GYPSUM CO
VENTO STEEL PRODUCTS CO INC

▶ WINDOWS, CASEMENT, ALUMINUM

A B C Steel Equipment Co Inc
ADAMS & WESTLAKE CO
ALCASCO PRODUCTS INC
All-Lite Metal Window Co
Aluminum Home Products Co
Aluminum Window Corp
Bayley (William) Co
Clark-Babbitt Industries Inc
Compo-Miracle Products Co
Croft Steel Products Inc
Cupples Products Corp
Eagle-Picher Co
Fentron Steel Works Inc
Flour City Ornamental Iron Co
FLYNN (MICHAEL) MFG CO
GENERAL BRONZE CORP
Harris Inc
HIGGINS INC
Holister Coil Spring Mfg Co
HOPE'S WINDOWS INC
Ingersoll Steel Div Borg-Warner Corp
KEWANEE MFG CO
Lasud Engineering Co
Maco Corp
MARMET CORP
METAL ARTS MFG CO
Metal Window Service Co
Pennsylvania Wire Glass Co
PETERSON WINDOW CO
REYNOLDS METALS CO BUILDING PRODUCTS DIV
RUSSELL (F C) CO
Sterling Windows Inc
Storm Windows of Aluminum Inc
Storms (Albert) & Co
THORN (J S) CO
Timm Industries Inc
Trim-Set Corp Sub Pentron Steel Works Inc
TRUSCON STEEL CO SUB REPUBLIC STEEL CORP
Union Aluminum Co Inc
Universal Window Co
V-Seal Corp
Valley Metal Products Co
Ware Laboratories Inc
Wateo Engineering Inc
Weather-Proof Co
Williams Bros Corp
Wilson (L S) Mfg Co
Windalume Corp

▶ WINDOWS, CASEMENT, STEEL

A B C Steel Equip Co
Allen Steel Products
Barnhart (A W) & Co
Bayley (William) Co
CECO STEEL PRODUCTS CORP
COPCO STEEL & ENGINEERING CO
Crittall Inc
Croft Steel Products Inc
Deatur Iron & Steel Co
FENESTRA BUILDING PRODUCTS
FLYNN (MICHAEL) MFG CO
Gundercraft Metal Products Co
HOPE'S WINDOWS INC
International Steel Co
Kaptor (Joseph J) Sales Co
KEWANEE MFG CO
Mesker Brothers
MESKER (GEORGE L) STEEL CORP
Michel & Pfeiffer Iron Works
Potts-Farrington Co
REPUBLIC STEEL CO
RUSSELL (F C) CO
Serevs & Fabricated Metals Corp
Soule Steel Co
STEELCRAFT MFG CO
Steel Window Products Co
THORN (J S) CO
TRUSCON STEEL CO
VENTO STEEL PRODUCTS CO INC
Vimear Sales Co
Williams & Williams Products Corp
Wilson (L S) Mfg Co

Manufacturers' Names and Addresses Start on Page D-61

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AMERICAN BUILDER

Huttig Sash & Door Co
Ideal Co
Keystone Frame & Mfg Co
Kinzua Pine Mills Co
Letraco Building Products
Lockwood Wood Products
LONG-BELL LUMBER CO
WALTA MFG CO
Marquart Millwork Co
Missoula White Pine Sash Co
Morgan Co
Morgan Sash & Door Co
N S W Co
Northern Sash & Door Co
Northern Door Co
Pacific Mfg Co
Pacific Mutual Door Co
Phillips-Rhyne Lumber Co
Pullum Window Corp
Quigley (J R) Co
Radford Co
Roach & Musser Co
Robertson (A) & Son Inc
Rock Island Millwork Co
Rockwell Sales Corp
R O W SALES CO
Screens & Fabricated Metals Corp
Segelke & Kohlhaus Co
Semling-Menke Co
Silerest Co
Snedaker (Frank C) & Co
Wabash Screen Door Co
Western Pine Mfg Co Ltd
WEYERHAEUSER SALES CO
White Pine Sash Co

▶ WINDOWS, GLASS BLOCK AND SLIDING SASH

KIMBLE GLASS CO SUB OF OWENS-ILL-INDIS GLASS CO

▶ WINDOWS, HORIZONTAL GLIDING, METAL

GENERAL BRONZE CORP
GLIDE WINDOWS INC
NOVA SALES INC
PETERSON WINDOW CO
SLIDE-VIEW DOOR & WINDOW CO
Vista Sliding Sash Co
Vita Automatic Windows Inc

▶ WINDOWS, HORIZONTAL GLIDING, WOOD

ANDERSEN CORP
Anson & Gilkey Co
Burke Millwork Co
Farley & Loetscher Mfg Co
GREGG & SON
Kinzua Pine Mills Co
LONG-BELL LUMBER CO
Morgan Co
Northwest Door Co
Silerest Co
Spokane Sash & Door Co
Western Pine Mfg Co
White Pine Sash Co

▶ WINDOWS, LOUVER ALUMINUM

Fentron Steel Works Inc
LUDMAN CORP
METAL ARTS MFG CO
Midwest Louver Co
PRO-TECT-U JALOUSIE CORP
Trim-Set Corp Sub Fentron Steel Works Inc
Van Ness Louvre Co
Ventilite Corp

▶ WINDOWS, LOUVER, STEEL

Stewart Iron Works Co Inc
SUN SASH CO

▶ WINDOWS, PIVOTED AND PROJECTED ALUMINUM

A H C Steel Equipment Co
Aluminum Window Corp
Barnhart (A W) Co
Bayley (William) Co
CECO STEEL PRODUCTS CORP
Cupples Products Corp
FLYNN (MICHAEL) MFG CO
GENERAL BRONZE CORP
Storms (Albert) & Co
THORN (J S) CO
Timm Industries Inc
UNION ALUMINUM CO
Universal Window Co
Valley Metal Products Co
Ware Laboratories Inc
Williams Bros Corp

▶ WINDOWS, PIVOTED AND PROJECTED, STEEL

Adams Co
Allen Steel Products
Bayley (William) Co
Bogert & Carluh Co
CECO STEEL PRODUCTS CORP
COPCO STEEL & ENGINEERING CO
Crittall Inc
Decatur Iron & Steel Co

FENESTRA BUILDING PRODUCTS
FLYNN (MICHAEL) MFG CO
Goodcraft Metal Products
H & B Mfg Co
HOPE'S WINDOWS INC
International Steel Co
Kaptur (Joseph J) Sales Co
KEWANEE MFG CO
MARNET CORP
Marquart Millwork Co
Mesker Brothers
MESKER (GEORGE L) STEEL CORP
Michel & Pfeiffer Iron Works Inc
REPUBLIC STEEL CORP
Soudle Steel Co
Steel Window Products Co
Stewart Iron Works Co
THORN (J S) CO
TRUSCON STEEL CO
VENTO STEEL PRODUCTS CO INC

▶ WINDOWS, PIVOTED AND PROJECTED, WOOD

Farley & Loetscher Mfg Co
Hayman Window Co
Huttig Sash & Door Co
KEWANEE MFG CO
Marquart Millwork Co
Morgan Sash & Door Co
Pacific Mutual Door Co
Segelke & Kohlhaus Co
Silerest Co

▶ WINDOWS, ROUND, WOOD

CURTIS COS INC
Webb Mfg Co

▶ WINDOWS, SECURITY, STEEL

Bayley (William) Co
CECO STEEL PRODUCTS CORP
COPCO STEEL & ENGINEERING CO
Crittall Inc
Croft Steel Products Inc
FENESTRA BUILDING PRODUCTS
FLYNN (MICHAEL) MFG CO
HOPE'S WINDOWS INC
International Steel Co
Kaptur (Joseph J) Co
Mesker Brothers
TRUSCON STEEL CO
VENTO STEEL PRODUCTS CO INC

▶ WINDOWS, STORM, ALUMINUM

Also Inc
Aluminum Window Corp
BUCKEYE SCREEN & WEATHERSTRIP CO
CECO STEEL PRODUCTS CORP
Eagle-Picher Co
Katz Screen & Weatherstrip Co
Steel Window Products Co

▶ WINDOWS, STORM, STEEL

Adams Co
Also Inc
Aluminum Window Corp
Barnhart (A W) & Co
Chamberlin Co of America
Croft Steel Products Inc
Decatur Iron & Steel Co
FENESTRA BUILDING PRODUCTS
Hollister Coil Spring Mfg Co
HOPE'S WINDOWS INC
Ingersoll Steel Div Borg-Warner Corp
Kane Mfg Corp
KEWANEE MFG CO
Lockhart Mfg Corp
Mesker Brothers
NEW MONARCH MACHINE & STAMPING CO
Orange Screen Co
Paramount Casement Window Corp
Robbins Mfg Co
RUSSELL (F C) CO
Security Sash & Screen Co
Soudle Steel Co
Starline Inc
STEELCRAFT MFG CO
Steel Window Products Co
Sterling Windows Inc
Storm Windows of Aluminum
TRUSCON STEEL CO
Universal Products Inc
VENTO STEEL PRODUCTS CO INC
Ware Laboratories Inc
Weather-Proof Co
Williams Oil-O-Matic Div Eureka Williams Corp
Wilson (L R) Mfg Co

▶ WINDOWS, STORM, WOOD

ANDERSEN CORP
Anderson (V E) Mfg Co
BROWN GRAVES CO
Burke Millwork Co
CARR ADAMS & COLLIER CO
Chamberlin Co of America Inc
Cole Mfg Co
Continental Screen Co
CURTIS COS INC
Farley & Loetscher Mfg Co

GREGG & SON INC
Hemphill (A D) Co
Hines (Edward) Lumber Co
Hoosier Sash & Door Co
Huttig Mfg Co
Huttig Sash & Door Co
Kinzua Pine Mills Co
LONG-BELL LUMBER CO
Marquart Millwork Co
Missoula White Pine Sash Co
Morgan Co
Morgan Sash & Door Co
National Screen Door Co
Northern Sash & Door Co
Northwest Door Co
Pacific Mutual Door Co
Penix Mfg Co Inc
Prentice (F W) & Co
Roach & Musser Co
Robbins Mfg Co
Rock Island Millwork Co
Schumacher (F E) Co
Segelke & Kohlhaus & Co
Seneca Lumber & Millwork Co
Silerest Co
Spokane Sash & Door Co
Vinegar Sales Co
WEATHER-SEAL INC
White Pine Sash Co
Wilson (L S) Mfg Co
Window Conditioning Co

▶ WINDOWS, VERTICAL GLIDING, ELECTRICALLY OPERATED

RUSSELL (F C) CO
Vita Automatic Windows Inc

▶ WINDOWS, WOOD, WITH LOUVERS BELOW

Solar Air-Flo Co

▶ WIRE

BERGER MFG CO DIV REPUBLIC STEEL CORP
KEYSTONE WIRE CLOTH CO

▶ WIRE, BARBED

American Chain Link Fence Co
AMERICAN STEEL & WIRE CO
Bambrick (Richard J)
Bethlehem Steel Co
COLORADO FUEL & IRON CORP
Columbia Steel Co
Continental Steel Corp
Copperwell Steel Co
JONES & LAUGHLIN CORP
KEYSTONE STEEL & WIRE CO
NICHOLS WIRE & ALUMINUM CO
Northwestern Steel & Wire Co
Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
Sheffield Steel Corp
TENNESSEE COAL IRON & RR CO SUB U S STEEL CORP

▶ WIRE, ELECTRICAL

AMERICAN STEEL & WIRE CO
Anacosta Wire & Cable Co
CHASE BRASS & COPPER CO
Copperwell Steel Co
Essex Wire Corp Parantite Wire & Cable Div
General Cable Corp Sub Anacosta Copper Co
GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
Hazard Insulated Wire Works Div Okonite Co
National Electric Products Corp
Revere Copper & Brass Inc
Roebling's (John A) Sons Co
U S Rubber Co

▶ WIRE, GALVANIZED STEEL

American Chain Link Fence Co
AMERICAN STEEL & WIRE CO
Armco Steel Corp
Bethlehem Steel Corp
Century Fence Co
COLORADO FUEL & IRON CORP
Columbia Steel Co
Continental Steel Corp
Johnson Steel & Wire Co
JONES & LAUGHLIN STEEL CORP
KEYSTONE STEEL & WIRE CO
LACLEDE STEEL CO
NICHOLS WIRE & ALUMINUM CO
Northwestern Steel & Wire Co
Pittsburgh Steel Products Co
REPUBLIC STEEL CORP
Seneca Wire & Mfg Co
Sheffield Steel Corp
TENNESSEE COAL IRON & RAILROAD CO
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP
Wilson Steel & Wire Co
Youngstown Sheet & Tube Co

▶ WIRE, TIE

Alabama Metal Lath Co
American Brass Co
AMERICAN STEEL & WIRE CO
Bethlehem Steel Corp
BOSTWICK STEEL LATH CO
Continental Steel Corp
Copperwell Steel Co
INLAND STEEL PRODUCTS CO
International Nickel Co Inc
KEYSTONE STEEL & WIRE CO
NATIONAL GYPSUM CO
PENN METAL CO INC
Sommer Metalcraft Corp
SYMONS CLAMP & MFG CO
TENNESSEE COAL IRON & RAILROAD CO
TRUSCON STEEL CO
U S GYPSUM CO
WICKWIRE SPENCER STEEL DIV
COLORADO FUEL & IRON CORP

▶ WIRING, ELECTRICAL, MULTI-OUTLET

AMERICAN TELEPHONE & TELEGRAPH CO
WIEMOLD CO

▶ WIRING SYSTEMS, REMOTE CONTROL

GENERAL ELECTRIC CO CONSTRUCTION MATERIALS DEPT
Touch-Plate Corp

▶ WOOD, PLASTIC

Boyle-Midway Inc
Durham (Donald) Co
PITTSBURGH FLATE GLASS CO
Schalk Chemical Co

▶ WOOD SEALERS

Actna Plywood & Veneer Co
Akron Paint and Varnish Co
AMERICAN FLOOR SURFACING MACHINE CO
ATLAS PLYWOOD CORP
BRUCE (E L) CO
Chapman Chemical Co
Devoe & Reynolds Inc
Du Pont (E I) de Nemours Co
Forman-Ford & Co
LINSEED OIL PRODUCTS
Malax Chemical Corp
Prait & Lambert Inc
SHERWIN-WILLIAMS CO
U S PLYWOOD CORP

▶ WOODWORKING MACHINES

Aladdin Tools
American Woodworking Machine Co
ATLAS PRESS CO
Beth Mfg Co
BLACK & DECKER MFG CO
BOICE-CRANE CO
Buss Machine Works
Chase Turbine Mfg Co
Chattanooga Machinery Co
Ciron Tool Co
C K L Machinery Co
Consolidated Machinery & Supply Co Ltd
CUMMINS-CHICAGO CORP CUMMINS PORTABLE TOOLS DIV
Curtis Machine Corp
Dependable Machine Co
DEWALT INC
Easton Carlson & Co
Fay (J A) & Egan Co
FORSBERG MFG CO
Foster Mfg Co
Greenlee Tool Co
Hanchett Mfg Co
Handy Mfg Co
Hernance Machine Co
HESTON & ANDERSON DIV ST PAUL ENG & MFG CO
Holmes (E H) Machinery Co
Hutchinson Mfg Co
Jet Tool Sales Co
Jones Superior Machine Co
Master Woodworker Mfg Co
Mattison Machine Works
McDonough Mfg Co
Melby Machinery Mfrs
Merritt-Monahan Corp
Muskegon Machine Co
Newman Machine Co
Oliver Machinery Co
Onsrud Machine Works Inc
Palmer Machinery Co
PARKS WOODWORKING MACHINE CO
PORTER-CABLE MACHINE CO
Power-King Tool Corp
Powermatic Machine Co
Pringle & Brodie Machinery Co
Richardson (J S) Co
ROCKWELL MFG CO DELTA POWER TOOL DIV
SKIL CORP
STANLEY ELECTRIC TOOLS DIV STANLEY WORKS
Stetson-Ross Machine Co
Tanewitz Works
Turner Machinery Co
Turner Mfg Co
Vonnegut Moulder Corp
Walker-Turner Div Kearney & Trecker Corp
Wallace (J D) & Co
WHITNEY (BAXTER D) & SON INC
Wilson Saw Div Media Machine Works Inc
Woods (S A) Machine Co
Yates-American Machine Co

Manufacturers' Names and Addresses Start on Page D-61
Manufacturers' Brand Name Identifications Start on Page D-52

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SECTION II

Brand Names

Alphabetical List of Building Products and Equipment

BRAND NAMES used to identify principal building products and equipment of major manufacturers are listed in this section in alphabetical order with the names of manufacturers using the brand names. Trade and brand names popularly used in the building industry are listed irrespective of their registration. This selective list is presented for the

convenience of builders, contractors, architects and retail material dealers who will find it helpful in identifying the manufacturers of certain building products and equipment.

The names of the manufacturers are listed after the brand or trade name. The addresses of the manufacturers will be found in Section III beginning on page D-61.

★ ★ ★

- A**
- ACCOTEX—Armstrong Cork Co
ACL—Owens-Illinois Glass Co
ACME NESTABLE—Republic Steel Corp
ACME—Acme Appliance Mfg Co
ACME—Eagle Lock Co
ACME—Certain-teed Products Corp
ACME—Keystone Steel & Wire Co
ACME—Inland Steel Products Co
ACOUSTI-CELOTEX—Celotex Corp
ACOUSTILITE—Insulite Div Minnesota & Ontario Paper Co
ACOUSTIMASTIC—Pecora Paint Co
ACOSTONE—U S Gypsum Co
ACRATHERM—Minneapolis-Honeywell Regulator Co
ACROFLAME—American Radiator & Standard Sanitary Corp
AD-AIRE—Carter-Waters Corp
A-D BOARD—Carey (Philip) Mfg Co
ADJUSTO—Milwaukee Flush Valve Co
ADMIRAL—Fiat Metal Mfg Co
ADURO—Flintkote Co
AEROFAN—Pryne & Co Inc
AEROLUX—Johnson (S T) Co
"AETNA"—Aetna Steel Products Corp
AETNA—Eagle Lock Co
AGATITE—Certain-teed Products Corp
AGWI—American Radiator & Standard Sanitary Corp
AIRACOUSTIC—Johns-Manville Corp
AIR CONTROL PROD INC—Air Control Products Inc
AIRSTAT—Minneapolis-Honeywell Regulator Co
AIRTITE—Inland Steel Products Co
AIRTROL—Bell & Gessett Co
AIR-TURN—Barber-Colman Co
AIR-VENT—Ruberoid Co
AIR WAVE—Trade-Wind Motors Inc
AJAX—Sherwin-Williams Co
AKOUSTIKOS—Johns-Manville Corp
ALACROME—Macklenburg-Dun-
- ALDEN—American Radiator & Standard Sanitary Corp
ALDURA—New York Wire Cloth Co
ALGOMA—U S Plywood Corp
ALGONITE—U S Plywood Corp
ALLERTON—American Radiator & Standard Sanitary Corp
ALLIANCE WARE—Alliance Ware Inc
ALLIGATOR—Allith-Prouty Inc
ALLWEATHER—Flintkote Co
ALPINA—Inland Steel Products Co
ALSYNITE—Alsynite Co of America
ALUMATIC—Alumatic Corp of America
ALUMATIC DELUXE—Alumatic Corp of America
ALUMATIC 3 TRACK—Alumatic Corp of America
ALUMATIC ROYAL—Alumatic Corp of America
ALUMINUM STRIPE—Keystone Steel & Wire Co
ALUMINUM TOP—Keystone Steel & Wire Co
ALUMNI-DROME—Reynolds Metals Co
ALWINTITE—General Bronze Corp
AMBLEROID—Keasbey & Mattison Co
AMERCLAD—American Steel & Wire Div—U S Steel Corp
AMERICAN—American Steel & Wire Div—U S Steel Corp
AMERICAN "B" & "C"—The American Floor Surfacing Machine Co
AMERICAN DELUXE—The American Floor Surfacing Machine Co
AMERICAN PENTRA-SEAL—The American Floor Surfacing Machine Co
AMERICAN RENTAL—American Floor Surfacing Machine Co
AMERICAN SANDER PLANE—The American Floor Surfacing Machine Co
- AMERICAN STANDARD—American Radiator & Standard Sanitary Corp
AMERICAN SUPER 8—The American Floor Surfacing Machine Co
AMEROCK—American Cabinet Hardware Corp
AMWELD—American Welding & Mfg Co
ANCHOR—Barrett Div Allied Chemical & Dye Corp
ANCHOR—Besser Mfg Co
ANCHOR—Celotex Corp
ANCHOR—Lufkin Rule Co
ANCHORFAST—Independent Nail & Packing Co
ANCHOR-LOK—Barrett Div Allied Chemical & Dye Corp
ANDAL—Fawcoco Mfg Div Falls Stamping & Welding Co
ANDERSEN FLEXIVENT—Andersen Corp
ANDERSEN WINDOW WALLS—Andersen Corp
ANDERSON—Westinghouse Electric Corp Sturtevant Div
ANGEL—Angel Novelty Co
ANTHONY—American Steel & Wire Co
A-1—Cabot (Samuel) Inc
APAG—Keasbey & Mattison Co
APARTVENT—Nelson (Herman)
APMI—Associated Plywood Mills Inc
AQUADAM—Johns-Manville Corp
AQUAPEL—Zonolite Co
AQLUX—Johnson (S T) Co
ARALUM—Alumatic Corp of America
ARBORITE—U S Gypsum Co
ARCH BEAD—Inland Steel Products Co
ARCHITECT—Bird & Son Inc
ARCO—American Radiator & Standard Sanitary Corp
ARCOFLAME—American Radiator & Standard Sanitary Corp
ARDEN—U S Gypsum Co
ARGOTILE—Flintkote Co
ARIDIZE—U S Gypsum Co
- ARISTO—Fiat Metal Mfg Co
ARISTO-BRIC—Ruberoid Co
ARISTOCRAT—Holt Mfg Co
ARISTOFLEX—Mastic Tile Corp of America
ARLINGTON—American Radiator & Standard Sanitary Corp
ARLINGTON SQUARE—American Radiator & Standard Sanitary Corp
ARLON—Armstrong Cork Co
ARMOLITE—Bird & Son Inc
ARMORPLY—U S Plywood Corp
ARMSTRONG-STEDMAN—Armstrong Cork Co
ARRESTONE—Armstrong Cork Co
ARRO-LOCK—U S Gypsum Co
ARROW—Keystone Steel & Wire Co
ART BRIC—Bird & Son Inc
ARTCRAFT—Huntington Industries Inc
ART EDGE—Bird & Son Inc
ART IN IRON—Artcraft Ornamental Iron Co
ASBESTILE—Johns-Manville Corp
ASBESTOGEL—Johns-Manville Corp
ASBESTO-LITE—Kay-Tite Co
ASQU—Carey (Philip) Mfg Co
ATLANTIC BREEZE—Pryne & Co Inc
ATLAS—Atlas Press Co
ATLAS—Universal Atlas Cement Co
ATTICVANE—Westinghouse Electric Corp Sturtevant Div
A-12—Armstrong Cork Co
AURORA—Barber-Greene Co
AUTOGOAL—Crane Company
AUT-O-DOOR—Richards-Wilcox Mfg Co
AUTO-LOK—Ludman Corp
AX—Aldrich Co
AXIFLO—Westinghouse Electric Corp
- B**
- BADGER—Milwaukee Flush Valve Co
BADGER—U S Gypsum Co
BAILEY—Stanley Works
BAKER PERFECT—American Steel & Wire Co

List of Manufacturers' Names
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BALL-RITE—Cummins Portable Tools Div Cummins-Chicago Corp
BALSAM-WOOL—Wood Conversion Co
BANKHEAT—Johnson (S T) Co
BANNER—Tennessee Coal Iron & Railroad Co
BANZAI—Pittsburgh Plate Glass Co
BARCO—Barco Mfg Co
BARCOL—Barber-Colman Co
BARCOL OVERDOOR—Barber-Colman Co
BARNHIDE—Pittsburgh Plate Glass Co
BARRETT-HOLT—Barrett Div Allied Chemical & Dye Corp
BATH MAID—Kitchen Maid Corp
BAX-BOARD—U S Gypsum Co
BEAR—Samson Cordage Works
BEAUTY QUEEN—Toledo Desk & Fixture Co
BEAUTY WARE—Briggs Mfg Co
BEAVER—Certain-teed Products Corp
BEAVER—Samson Cordage Works
BECKMAN-DAWSON—Flintkote Co
BED ROCK—Stanley Works
BEE GEE—Brown-Graves Co
BEEHIVE BRAND—Cabot (Samuel) Inc
BEHR-CAT—Behr-Manning Corp
BELL—Keasbey & Mattison Co
BELL PRIME MOVER—The Prime Mover Co
BELSAW—Belsaw Machinery Co
BEND-BOARD—Marsh Wall Products Inc
BENEFIRE—Bennett-Ireland Inc
BENEFORM—Bennett-Ireland Inc
BEN FRANKLIN—U S Gypsum Co
BERLOY—Berger Mfg Co Div Republic Steel Corp
BERNICO—Brown Company
BERNARD—Sargent & Co
BERRY—Steel Door Corp
BESSER—Besser Mfg Co
BESSLER—Bessler Disappearing Stairway Co
BEST BROS—National Gypsum Co
BEST-VENT—Per-Fit Products Corp
BESTWALL—Certain-teed Products Corp
BETTER HOMES & GARDENS—Meredith Publishing Co
BEVIL-DEVIL—Kimball Mfg Co Inc
B & G—Bell & Gossatt Co
BIG CHIEF—Flintkote Co
BIG CHIEF—Carlson & Sullivan Inc
BIG FOUR—U S Gypsum Co
BIGMESH—Inland Steel Products Co
BILCO—Bilco Co
BILDRIE—Insulite Div Minnesota & Ontario Paper Co
BIL-JAX—Bil-Jax Co
BILT-WELL—Carr Adams & Collier Co
BIRD—Bird & Son Inc
BLACK ASPHALT—Carey (Philip) Mfg Co
BLACK-BIRD—Samson Cordage Works
BLAG & DECKER—Black & Decker Mfg Co
BLACK DIAMOND—Barrett Div Allied Chemical & Dye Corp
BLACKHAWK—Arps Corp
BLACK LAP—Carey (Philip) Mfg Co
BLACK MAGIC—Miracle Adhesives Corp
BLACK SHIELD—Barrett Div Allied Chemical & Dye Corp
BLACKSTONE—American Asphalt Roof Corp
BLACK TEMPERED PRESWOOD—Masonite Corp
BLAXPHALT—Sherwin-Williams Co
BLAZECRETE—Johns-Manville Corp
BLENDEX—U S Gypsum Co
BLOCKEDGE—Certain-teed Products Corp
BLO-FAN—Pryne & Co Inc
BLOK-MESH—Carter-Waters Corp
BLOK-SEAL—Carter-Waters Corp
BLO-POKE—Bennett-Ireland Inc
BLOWETTE—Lau Blower Co
BLOXOLITE—Hachmeister Inc
BLUE BAND—American Gypsum Div Celotex Corp
BLUE-CENTER—Upson Co
BLUE RAPIDS—Certain-teed Products Corp
BLUE CIRCLE—Dunkirk Radiator Corp
BLUE RIBBON—Keystone Steel & Wire Co
BLUE RIDGE—Libbey-Owens-Ford Glass Co
BLUE RIDGE HAMMERED—Libbey-Owens-Ford Glass Co
BLUE RIDGE LOUVREX—Libbey-Owens-Ford Glass Co
BLUE TIP—Simonds Saw & Steel Co
BLUE VALLEY—U S Gypsum Co
BOICE-CRANE—Boice-Crane Co
BONDCRETE—U S Gypsum Co
BONUS-BUILT—Ford Motor Co
BORED-IN—Sargent & Co
BOR-IN—Lockwood Hardware Mfg Co
BOR-LOG—Lockwood Hardware Mfg Co
BOSS-RIB—Bostwick Steel Lath Co
BOSTWICK—Bostwick Steel Lath Co
BRACE-TITE—U S Gypsum Co
BRAS-RITE—Sherwin-Williams Co
BRIG-ROLL—Flintkote Co
BRIG-SIDE—Johns-Manville Corp
BRISULATE—Carey (Philip) Mfg Co
BRICK-TEX—Certain-teed Products Corp
BRID-JOINT—U S Gypsum Co
BRIGGS BEAUTYWARE—Briggs Mfg Co
BRIKSET—Medusa Portland Cement Co
BRIK-STRIP—Ruberoid Co
BRIILLIANT—Calbar Paint & Varnish Co
BRIILLIANT FIRE—Ohio Foundry & Mfg Co
BRIXMENT—Louisville Cement Co
BROADLITE—Mississippi Glass Co
BROAD SHADOW—Barrett Div Allied Chemical & Dye Corp
BROWN ELECTRONIK—Minneapolis-Honeywell Regulator Co
B T U—Carey (Philip) Mfg Co
BUCKEYE—Buckeye Screen & Weatherstrip Co
BUCKEYE—Ohio Hydrate & Supply Co
BUDGET—American Radiator & Standard Sanitary Corp
BUG-BLASTER—Sherwin-Williams Co
BUILDERS FRAMES—Builders Mfg Co
BUILDWARE—Frantz Mfg Co
BUNDYWELD—Bundy Tubing Co
BURKS—Decatur Pump Co
BUSH—The Bush Mfg Co
BUT-N-TITE—St Paul Corrugating Co
BX—Aldrich Co

C

CABLE KING—Yale & Towne Mfg Co
CABRANETTE—Murphy Door Bed Co
CADET—Fiat Metal Mfg Co
CALIGEL—Celotex Corp
CALISTONE—Celotex Corp
CALKELASTIC—Pecora Paint Co
CANIEF—Masonite Corp
CAPITOL—Capitol Kitchens Div of Hubony Bros Inc
CARADCO—Carr Adams & Collier Co
CARBOLIC-OL—Sherwin-Williams Co
CARBOSOTA—Barrett Div Allied Chemical & Dye Corp
CAREX-C P 5—Carey (Philip) Mfg Co
CAREYCEL—Carey (Philip) Mfg Co
CAREY COATING—Carey (Philip) Mfg Co
CAREYDUCT—Carey (Philip) Mfg Co
CAREYELAD—Carey (Philip) Mfg Co
CAREYELASTIC—Carey (Philip) Mfg Co
CAREYSTONE—Carey (Philip) Mfg Co
CARGILL—Linseed Oil Prod Co
CARILLOY—United States Steel Corp
CARR-DOR—Carr Adams & Collier Co
CARRARA—Pittsburgh Plate Glass Co
CARRIER—Carrier Corp
CAS—Sisalkraft Co
CASCADE—Fiat Metal Mfg Co
CASCADE—Miami Cabinet Div Carey (Philip) Mfg Co
CASCADE—U S Gypsum Co
CASENITE—Sherwin-Williams Co
CECO—Ceco Steel Prods Co
CECO-MEYER—Ceco Steel Prods Co
CECO-STERLING—Ceco Steel Prods Co
CEDARGRAIN—Johns-Manville Corp
CELLADOORS—Bilco Co
CELLASTAIRS—Bilco Co
CELL-U-BLANKET—Masonite Corp
CELLUFOAM—Masonite Corp
CELO-BLOCK—Celotex Corp
CELOBRIC—Celotex Corp
CELOCHROME—Celotex Corp
CELOCRETE—Celotex Corp
CELO-ROK—Celotex Corp
CELO-SHINGLE—Celotex Corp
CELO-SIDING—Celotex Corp
CELOTEX—Celotex Corp
CELO-TEXBRIK—Celotex Corp
CEMENTHIDE—Pittsburgh Plate Glass Co
CEMENTICO—U S Gypsum Co
CEMESTO—Celotex Corp
CENTURY—Keasbey & Mattison Co
CERAMO—Carey (Philip) Mfg Co
CERAMO—Ohio Hydrate & Supply Co
CERTILE—Certain-teed Products Corp
CERTROCK—Certain-teed Products Corp
CHAMPION—Crane Company
CHAMPION—Gunnison Homes Inc
CHAMPION—U S Gypsum Co
CHAMPION—Vento Steel Products Co
CHAN-L-CROS—Junior-Pro Products Co
CHANNELFORM—Bostwick Steel Lath Co
CHEROKEE—Mosaic Tile Co
CHIC-MESH—Keystone Steel & Wire Co
CHIEF—Carlson & Sullivan Inc
CHROMEDGE—B & T Metals Co
CHROMSEAL—Pittsburgh Plate Glass Co
CHRONOTHERM—Minneapolis-Honeywell Regulator Co
CHRYSLER-AIRTEMP—Airtemp Div Chrysler Corp
CLEAR-AIRE—Sin-Jin Products Co
CLEAROLIN—Sherwin-Williams Co
CLETRAC—Oliver Corp Cletrac Div
CLIFFDALE—American Radiator & Standard Sanitary Corp
CLIFFTON—American Radiator & Standard Sanitary Corp
CLIMATE MASTER—Hess Co
CLIMATROL—Mueller (L J) Furnace Co
CLINCHER—Inland Steel Products Co
CLOS-TITE—Carr Adams & Collier Co
CM—Construction Machinery Sales Co
COBURN C F & I—Wickwire Spencer Steel Div Colorado Fuel & Iron Corp
COLAS—Flintkote Co
COLCAP—Carey (Philip) Mfg Co
COLEMAN—Coleman Co Inc
COLLOPAKES—Cabot (Samuel) Inc
COLONIAL—American Cabinet Hardware Corp
COLONIAL—Miami Cabinet Div Carey (Philip) Mfg Co
COLONIAL TIMBERTEX—Ruberoid Co
COLORADO—Wickwire Spencer Steel Div Colorado Fuel & Iron Corp
COLOR-CONDITIONING—Du Pont (E I) de Nemours & Co Inc
COLOR DYNAMICS—Pittsburgh Plate Glass Co
COLOR-RITE—U S Gypsum Co
COLOR-TONED—National Brass Co
COLOR TRIM—American Cabinet Hardware Corp
COL-PLY—Flintkote Co
COLPREY 10—Timbo; Engineering Co
COLUMBIA—Pittsburgh Plate Glass Co
COLUMBIA—Samson Cordage Works
COMMAND-AIRE TWINS—Bryant Heater Div AGE
COMMANDER—Upson Co
COMMODORE—Fiat Metal Mfg Co
COMMODORE—Holt Mfg Co
COMMONWEALTH—Sherwin-Williams Co
CONCRETE FORM PRESWOOD—Masonite Corp
CONFETTI—Mastic Tile Corp of America
CONGRESS—Samson Cordage Works
CONSERVOIL—Crane Company
CONTIGO—Ruberoid Co
CONVECTOR—Mueller (L J) Furnace Co

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CONVERTIBLE—Berger Mfg Div Republic Steel Corp
COOLITE—Mississippi Glass Co
COOLITE—Pittsburgh Plate Glass Co
COPPER ARMORED—Sisakraft Co
COPPER GLIPT—Bird & Son Inc
CORKBOARD—Armstrong Cork Co
CORKOUSTIC—Armstrong Cork Co
CORLON—Armstrong Cork Co
CORNERITE—Penn Metal Co Inc
CORNERITE—Truscon Steel Co
CORONA DRY—Pittsburgh Plate Glass Co
CORPORAL—Certain-lead Products Corp
COR TEN—Tennessee Coal Iron & Railroad Co
COVER COAT—U S Gypsum Co
COVER-DRI—Barrett Div Allied Chemical & Dye Corp
CRAFTCO—National Gypsum Co
CRAFTCORD COVER-DRI—Flintkote Co
CRAFT-PAK—Masonite Corp
CRAW-FIR-DOOR—Fir Door Institute
CREONOID—Barrett Div Allied Chemical & Dye Corp
CRESCENT GROUND—Simonds Saw & Steel Co
CROCUS—Samson Cordage Works
CROSLLEY—Crosley Div Avco Mfg Corp
CROSLLEY SHELVAIOR—Crosley Div Avco Mfg Corp
CROWNPLY—Georgia-Pacific Plywood Co
CRYSTAL—Barrett Div Allied Chemical & Dye Corp
CRYSTALEX—Pittsburgh Plate Glass Co
CUPRINOL—Cuprinol Div Darworth Inc
CUSHIONTONE—Armstrong Cork Co

D

DAGO-DOOR—Atlas Plywood Corp
DALTON—Dalton Mfg Co
DAMP-VENT—Damp Vent Co
DANCO—Daniels (C R) Inc
DANDUX—Daniels (C R) Inc
DA-NITE ACRATHERM—Minneapolis-Honeywell Regulator Co
DEARBORN—Dearborn Mfrs Corp
DECOBLEND—Flintkote Co
DECORALT—Flintkote Co
DECORATIVE MICARTA—U S Plywood Corp
DEEPSEAT—Bennett-Ireland Co
DEFENDER—Keystone Steel & Wire Co
DEFLECTROL—Barber-Colman Co
DEION—Westinghouse Electric Corp
DELCO-HEAT—Delco Appliance Div GMC
DELTA—Rockwell Mfg Co Power Tool Div
DELTA MULTIPLEX—Rockwell Mfg Co Delta Power Tool Div
DELUX—Insulite Div Minnesota & Ontario Paper Co
DELUXE—American Cabinet Hardware Corp
DENCO—Deniston Co
DENSITE—Certain-lead Products Corp
DEXTER—Dexter Lock Co
DEXTER—National Brass Co
DEXTER-TUBULAR—National Brass Co
DEWALT—DeWalt Inc
DEWALT-MONARCH—DeWalt Inc
DEWALT POWER SHOP—DeWalt Inc

DIAMOND—American Steel & Wire Co
DIAMOND—Barrett Div Allied Chemical & Dye Corp
DIAMOND—U S Gypsum Co
DIAPER HAMPER—Lawson (F H) Co
DIFFUSEX—Libbey-Owens-Ford Glass Co
DILLON—Stanley Works
DISPOSALL—General Electric Co
DODGE JOB-RATED—Dodge Div Chrysler Corp
DOGWOOD—R G Coffman Co Inc
DOLPHIN—Fiat Metal Mfg Co
DOME TOP—Lawson (F H) Co
DOOZIT—Bruce (E L) Co
DORFAST—Ameriean Cabinet Hardware Corp
DOR-WAY—Richards-Wilcox Mfg Co
DOUBLE CROWN—Georgia-Pacific Plywood Co
DRAFTITE—Keasbey & Mattison Co
DRAGON—Richards-Wilcox Mfg Co
DRAWTITE—Allith-Prouty Inc
DRIVE-IT—Powder Power Tool Corp
DRYE—Weather Seal Co
DRY KILN—Carey (Philip) Mfg Co
DUA-LAPS—American Stained Shingle Co
DUBBLESEAL—Masonite Corp
DUBL-BUTT—U S Gypsum Co
DUBL-COVERAGE—Ruberoid Co
DUBLECOTE—Barrett Div Allied Chemical & Dye Corp
DUBL-THIK—Upson Co
DUL-KOTE—Tennessee Coal Iron & Railroad Co
DUO-FAST—Fastener Corp
DUOLITE—Pittsburgh Plate Glass Co
DUO-PANE—Pittsburgh Plate Glass Co
DUPLATE—Pittsburgh Plate Glass Co
DUPLEX—Richkraft Co
DUPLEX—U S Gypsum Co
DUPLEX—Upson Co
DURA—Flintkote Co
DURABOND—Penn Metal Co
DURAGLAY—Grane Company
DURA-GOTTA—Johns-Manville Corp
DURALIN—National Brass Co
DURALL—New York Wire Cloth Co
DURA-LOK—Barrett Div Allied Chemical & Dye Corp
DURAPLASTIC—Universal Atlas Cement Co
DURA-SEAL—Zezers Inc
DURA-SHIELD—Flintkote Co
DURATONE—Elkay Mfg Co
DURITE—Certain-lead Products Corp
DURO—Fiat Metal Mfg Co
DUROLITE—Insulite Div Minnesota & Ontario Paper Co
DURON—U S Gypsum Co
DUSO—Ohio Hydrate & Supply Co
DYNA-FLASH—Milwaukee Elec Tool Corp

E

EAGLE—Samson Cordage Works
EASON—Ruberoid Co
EBONOL—Sherwin-Williams Co
EGLIPSE—Red Devil Tools
ECONO—U S Gypsum Co

ECON-O-MATIC—Stanley Works
ECONOMY—Bird & Son Inc
ECONOMY—Keystone Steel & Wire Co
ECONO-SLIDE—Grant Pulley & Hdwe Co
EGONOTOP—Ruberoid Co
EDHAM—Weyerhaeuser Sales Co
ELASTIC—Carey (Philip) Mfg Co
ELASTIGUM—Barrett Div Allied Chemical & Dye Corp
ELDORADO—U S Gypsum Co
ELECTRIC JANITOR—Minneapolis-Honeywell Regulator Co
ELECTRO—Republic Steel Corp.
ELECTROMODE—Electromode Corp
ELECTRUNITE—Republic Steel Corp
ELJER—Eljer Co
ELLWOOD—American Steel & Wire Co
EMERSON JR—Emerson Electric Mfg Co
EMPIRE—Empire Stove Co
ENAMELCLAD—Carey (Philip) Mfg Co
ENAMELOID—Sherwin-Williams Co
ENDURO—Republic Steel Corp
ENSIGN—Fiat Metal Mfg Co
ETCH WALL—Atlas Plywood Corp
ETCH WOOD—Atlas Plywood Corp
ETERNIT—Ruberoid Co
ETERNIUM—Barrett Div Allied Chemical & Dye Corp
ETLING WINDOW THE—Etling Window
ETLING UTILITY—Etling Window
EUREKA—New York Wire Cloth Co
EVANS—Evans & Co
EVERBOND X—Bruce (E L) Co
EVERFAST—Barrett Div Allied Chemical & Dye Corp
EVERGLAZE—Mosaic Tile Co
EVERJET—Barrett Div Allied Chemical & Dye Corp
EVERLASTIC—Barrett Div Allied Chemical & Dye Corp
EVERLASTING—Stanley Tools Div Stanley Works
EVERLOX—Barrett Div Allied Chemical & Dye Corp
EVER-READY—Ohio Hydrate & Supply Co
EVERSQUARE—Symons Clamp & Mfg Co
EX-L-ITE—Republic Steel Corp
EXPANSLIP—Bennett Ireland Co
EXTRATITE—Flintkote Co
EXTRUDALITE—Libbey-Owens Ford Glass Co
E Z—Frantz Mfg Co
E-Z—Standard Steel Works
E-Z-FLEX—American Cabinet Hardware Corp
EZ-WAY—EZ-Way Sales Inc

F

FAB-RIK-O-NA—Wiggins (H B) Sons Co
FACTROLITE—Mississippi Glass Co
FAGEOL—Fageol Heat Machine Co
FASCO—Fasco Industries Inc
FATHER-TOUCH—Eljer Co
FELTEX—Carey (Philip) Co
FENESTRA—Fenestra Building Products
FERRORBORD—Truscon Steel Co
FERROCLAD—Truscon Steel Co

FIBERLITE—Insulite Div Minnesota & Ontario Paper Co
FIBEROCK—Carey (Philip) Mfg Co
FIBRE COATING—Carey (Philip) Mfg Co
FIBREX—Flintkote Co
FIBRONITE—Norge Cottages Inc
FIFTY-FIFTY—Du Pont (E I) de Nemours & Co Inc
50-50 PUSH-OVER—Allith-Prouty Co
FIRE-CHEX—Carey (Philip) Mfg Co
FIRECRETE—Johns-Manville Corp
FIRE-GUARD—Carey (Philip) Mfg Co
FIREITE—Johns-Manville Corp
FIRESTOP BESTWALL—Certain-lead Products Corp
FISSURETONE—Celotex Corp
FITS-ALL—Macklanburg-Duncan Co
#505 RED LEAD—King (E & F) & Co Inc
FIXMASTER—Cummins Portable Tools Div Cummins-Chicago Corp
FLASHING—Carey (Philip) Mfg Co
FLASHTITE—Ruberoid Co
FLASH-RITE—Sherwin-Williams Co
FLAT-TONE—Sherwin-Williams Co
FLAT TRANSITE—Johns-Manville Corp
FLAXOAP—Sherwin-Williams Co
FLEETLITE—Fleet of America Inc
FLEXALUM—Hunter Douglas Corp
FLEXARC—Westinghouse Electric Corp
FLEXBOARD—Johns-Manville Corp
FLEXCELL—Celotex Corp
FLEXI—Berger Mfg Div Republic Steel Corp
FLEXIBLAG—Cabot (Samuel) Inc
FLEXI-FLOOR—R C A Rubber Co
FLEXI-GRIP—American Cabinet Hardware Corp
FLEXIGUM—Barrett Div Allied Chemical & Dye Corp
FLEXMETL—U S Plywood Corp
FLEXSGREEN—Bennett-Ireland Inc
FLEXSEAL—Pittsburgh Plate Glass Co
FLEXTOP—Carey (Philip) Mfg Co
FLINTBOARD—Flintkote Co
FLINTLOCK—Flintkote Co
FLOATING—Stanley Works
FLO-LAC—Sherwin-Williams Co
FLOORMIX—Flintkote Co
FLOOR SEAL—Sherwin-Williams Co
FLOORSET—Flintkote Co
FLOREX—Libbey-Owens-Ford Glass Co
FLORHIDE—Pittsburgh Plate Glass Co
FLO-WARM—Williamson Heater Co
FLO-WAX—Sherwin-Williams Co
FLUSHWALL—Flush Wall Radio Co
FLUTEX—Libbey-Owens-Ford Glass Co
FOAMGLAS—Pittsburgh Corning Corp
FOLD-A-STAIR—Craig Wood-Products Co
FOLD-A-WAY—Patent Scaffolding Co Inc The
FOLD-R-WAY—Richards-Wilcox Mfg Co
FORD TRACTOR—Dearborn Motors Corp
FORMDUX—Airtemp Div Chrysler Corp

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FORMFREE—Mosaic Tile Co
 FORMICA—The Formica Co
 FORMICA BEAUTY BOARD—
 Formica Co
 FORMICA CONTACT BOND—
 Formica Co
 FORMICA STRATA-WOOD—
 Formica Co
 FORMICA VANITORY—Formica
 Co
 FORTIFIED—U S Gypsum Co
 4500—Sargent & Co
 4-POINT—Barrett Div Allied Chem-
 ical & Dye Corp
 4-SQUARE—Weyerhaeuser Sales
 Co
 FREEFLOTE—U S Gypsum Co
 FRENCH LOCK—Certain-teed
 Products Corp
 FRESH-AIRE—Bennett-Ireland Inc
 FUNGISIDE—Pittsburgh Plate
 Glass Co
 FURLATH—Inland Steel Products
 Co
 FURNACESTAT—Minneapolis-
 Honeywell Regulator Co
 F & W—Flint & Walling Mfg Co
 Inc
 FYRO-GRILL—Price Fireplace
 Heater & Tank Corp
 FYRO-PLACE—Price Fireplace
 Heater & Tank Corp

G

GALVANNEALED—Keystone Steel
 & Wire Co
 GALVITE—Sherwin-Williams Co
 GARDBOARD—Flintkote Co
 GARDENEER—Inland Steel Prod-
 ucts Co
 GASAYER—Williamson Heater Co
 (The)
 GEMCO—Moore (Goodlee E) Co
 GIANT—Barrett Div Allied Chem-
 ical & Dye Corp
 GIANT—Bird & Son Inc
 GIANT STRIP—Johns-Manville
 Corp
 GIANT WEIGHT—Barrett Div Al-
 lied Chemical & Dye Corp
 GIBALTAR—Pittsburgh Plate
 Glass Co
 GILSONOID—Flintkote Co
 GIMCO ROLLBAT—National Gyp-
 sum Co
 GIMCO SEALAL—National Gypsum
 Co
 GLASSURFACED—Kirlin Co
 GLASTONE—Libbey-Owens-Ford
 Glass Co
 GLATEX—U S Gypsum Co
 GLAZE COAT—Johns-Manville
 Corp
 GLAZ-KALK—Sherwin-Williams
 Co
 GLIDDEN—American Steel & Wire
 Co
 GLIDE—Frantz Mfg Co
 GLIDE-ALL—Woodall Industries
 Inc
 GLI-DOR—Carr Adams & Collier
 Co
 GLOGAS—Superior Fireplace Co
 GLOMASTER—Pryne & Co Inc
 GLORY—Inland Steel Products Co
 GOLD BOND—National Gypsum Co
 GOLD BOND-GIMCO—National
 Gypsum Co
 GOLD MEDAL—Patent Scaffolding
 Co Inc (The)
 GOLD STRAND—Wickwire Spen-
 cer Steel Corp
 GOLD STRIPE—Pittsburgh Plate
 Glass Co
 G-P PLYSHEET—Georgia-Pacific
 Plywood & Lumber Co
 G P X—Georgia-Pacific Plywood
 & Lumber Co

GRADUATED SEAL—Raynor Mfg
 Co
 GRAD-U-FLOW—Minneapolis-Hon-
 eywell Regulator Co
 GRADUTROL—Minneapolis-Hon-
 eywell Regulator Co
 GRAND PRIZE—U S Gypsum Co
 GRANITEX—Mosaic Tile Co
 GRAPH-A-MATIC—Remington
 Rand Inc
 GRAYLITE—Insulite Div Minne-
 sota & Ontario Paper Co
 GREEN SEAL—U S Gypsum Co
 GREEN TIP—Keystone Steel &
 Wire Co
 GREYSTONE—American Asphalt
 Roof Corp
 GRILLADIER—Bennett-Ireland Inc
 GRILLCRAFT—Grillcraft Co
 GRILLCRAFT TRAVELER—Grill-
 craft Co
 GRIP-TOW—Yale & Towne Mfg
 Co Philadelphia Div
 GUARD—Certain-teed Products
 Corp
 GUARDIAN—Flintkote Co
 GUARDWELL—Copco Steel & En-
 gineering Co
 GUILO—Porter Cable Machine Co
 GULFSTEEL—Republic Steel Corp
 GULF STREAM—Aldrich Co
 GUM-A-TUB—Protectub Inc
 GYLAP—U S Gypsum Co
 GYPSTEEL—Certain-teed Products
 Corp

H

HAGER—Hager (C) & Sons Hinge
 Mfg Co
 HAKO—Hachmeister Inc
 HALL-MACK—Hall-Mack Co
 HANDI-CRANE—Construction Ma-
 chinery Cos
 HAN-HE-DOR—Lawson (F H) Co
 HARBORD—Harbor Plywood Corp
 HARBORITE—Harbor Plywood
 Corp
 HARCURVE—Harbor Plywood
 Corp
 HARMONITONE—Mosaic Tile Co
 HARMOULD—Harbor Plywood
 Corp
 HASKO—Haskelite Mfg Co
 HASKO ARCH-KOR—Haskelite Mfg
 Corp
 HAWK SPREAD—Ohio Hydrate &
 Supply Co
 HAWTHORNE—Keystone Steel &
 Wire Co
 HEALTHHEAT—Norge Heat Div
 Borg-Warner Corp
 HEAT-A-LITE—Nu-Tone Inc
 HEATEX—Marsh Wall Products
 Inc
 HEATFORM—Superior Fireplace
 Co
 HEAT-PAK—Aldrich Co Div Breeze
 Corp Inc
 HEETAIRE—Markel Electric Prod-
 ucts Inc
 HELLITE—Johns-Manville Corp
 HERCULES—Richards Wilcox Mfg
 Co
 HERCULES—Sargent & Co
 HERCULES—Stanley Tools
 HERCULITE—Pittsburgh Plate
 Glass Co
 HERMAN NELSON PORTABLE
 HEATER—Herman Nelson
 HERRINGBONE—Truscon Steel Co
 HETTINGER'S TRIPLE SEAL—
 Weatherproof Products Corp
 HEVI-LIFT—Harnischfeger Corp

HEX-CEL—American Steel & Wire
 Co
 HEXTRALINE—American Steel &
 Wire Co
 HIDALIFT—Turner & Seymour
 Mfg Co
 HI-DUMP—Jaeger Machine Co
 HIGH BOY—Lawson (F H) Co
 HILITE—U S Gypsum Co
 HILO—Frantz Mfg Co
 HILO—Ohio Hydrate & Supply
 Co
 HI-SPEED—Louisville Cement Co
 HI-STEEL—Inland Steel Products
 Co
 HI-UP—Worthington Corp
 HOBBY—Carlson & Sullivan Inc
 HOLGUN—Black & Decker Mfg Co
 HOLORIB—Fenestra Building
 Products
 HOLT—Barrett Div Allied Chemi-
 cal & Dye Corp
 HOME-UTILITY—Black & Decker
 Mfg Co
 HOMLIME—Louisville Cement Co
 HOPE'S—Hope's Windows Inc
 HORIZONTAL GLIDING—Andersen
 Corp
 HORIZONTALINE—Marsh Wall
 Products Inc
 HOT BLAST—Carey (Philip) Mfg
 Co
 HOUSEMART—Roddie Plywood
 Corp
 HOW-ELL-DOR—Howell Mfg Co
 HOW-ELL-DOR ELECTRIC OPER-
 ATORS—Howell Mfg Co
 HOWLE—Condensation Engineer-
 ing Corp
 HUMID-AIRE—Meyer Furnace Co
 HUMID-U-STAT—Minneapolis-
 Honeywell Regulator Co
 HUNT PROCESS—Carter-Waters
 Corp
 HURWOOD—Stanley Works
 HYDRALT—Flintkote Co
 HYDROCAL—U S Gypsum Co
 HYDRO-FLO—Bell & Gossett Co
 HYDRONON—Barrett Div Allied
 Chemical & Dye Corp
 HYDROSTONE—U S Gypsum Co
 HYDROXIN—Kay-Tite Co

I

IDEAL—American Steel & Wire
 Co
 IDEAL—Tennessee Coal Iron &
 Railroad Co
 IMCO—Red Devil Tools
 I-M FLUSH—United States Ply-
 wood Corp
 IMMERSATHERM—Mercoind Corp
 IMPERIAL—U S Gypsum Co
 IN-A-SLIDE—New Monarch Ma-
 chine & Stamping Co
 INCOR—Lone Star Cement Corp
 INDUSTREX—Libbey-Owens-Ford
 Glass Co
 INLAND COPPER-ALLOY—Inland
 Steel Co
 INLAND 4-WAY SAFETY PLATE—
 Inland Steel Co
 INLAND HI-BOND—Inland Steel
 Co
 INLAND TI-CO—Inland Steel Co
 INN-A-WALL—Norman Products
 Co
 INSELBRIC—Jones & Brown Inc
 INSELSTONE—Jones & Brown Inc
 INSELSYDE—Jones & Brown Inc
 INSELWOOD—Jones & Brown Inc
 IN-SINK-ERATOR—In Sink Erator
 Mfg Co
 INS-LITE—Insulite Div Minnesota
 & Ontario Paper Co

INSULITE—Insulite Div Minnesota
 & Ontario Paper Co
 INSULMAT—Mortell (J W) Co
 INSULMESH—Truscon Steel Co
 INTEGRALOCKS—Sargent & Co
 IRONHIDE—Pittsburgh Plate
 Glass Co
 IVOROID—Pittsburgh Plate Glass
 Co
 IVORY—U S Gypsum Co

J

JACK FROST—Barrett Div Allied
 Chemical & Dye Corp
 JETBLAK—Ruberoid Co
 JIFFY—Angel Novelty Co
 JIFFY—Grand Haven Stamped
 Products Co
 JIFFY CORNERS—Perma Prod-
 ucts Co (The)
 JK—Knights (James) Co
 J-M—Johns-Manville Corp
 JMJ—JMJ Industries Inc
 JUMBO—U S Gypsum Co
 JUNIOR BATS—U S Gypsum Co
 JUNIOR BEAMS—Jones & Laugh-
 lin Steel Corp
 JUNIOR CHANNELS—Jones &
 Laughlin Steel Corp
 JU-OIL—Aldrich Co

K

KAL—U S Gypsum Co
 KALITE—Certain-teed Products
 Corp
 KALKOMO—Pittsburgh Plate
 Glass Co
 KARDEX—Remington Rand Inc
 KAYLO—Owens-Illinois Glass Co
 Kaylo Div
 KAYSTO—Alumatic Corp of
 America
 K-CEMO—U S Gypsum Co
 KEM-GLO—Sherwin-Williams Co
 KEMI-KAL—Sherwin-Williams Co
 KEM-NAMEL—Sherwin-Williams
 Co
 KEM-TONE—Sherwin-Williams Co
 KENCORK—Kentile Inc
 KENFLEX—Kentile Inc
 KENMORE—Certain-teed Products
 Corp
 KENRUBBER—Kentile Inc
 KENTILE—Kentile Inc
 KENWOOD—American Radiator &
 Standard Sanitary Corp
 KEYMESH—Keystone Steel &
 Wire Co
 KEY'N KNOB—Lockwood Hard-
 ware Mfg Co
 KEYSTONE—Crane Company
 KEYSTONE—Keystone Steel &
 Wire Co
 K-FAC—U S Gypsum Co
 KICKAPOO—Keystone Steel &
 Wire Co
 KIRLIN—The Kirlin Co
 KITCHENAIDER—Mullins Mfg
 Corp
 KITCHEN HOSTESS—Bianco Mfg
 Co
 KITCHEN MAID—Kitchen Maid
 Corp
 KITCHEN PROVED—Westing-
 house Electric Corp
 KITCH'N HANDY—Washington
 Steel Products Inc
 KLENGON—Cabot (Samuel) Inc
 K & M—Keasbey & Mattison Co
 KNICKERBOCKER—Flintkote Co
 KNOBURN—U S Gypsum Co
 KOHLER OF KOHLER—Kohler Co
 KOLECT-A-MATIC—Remington
 Rand Inc
 KOLOR PINS—Independent Nail &
 Packing Co

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KOLOR-TRIM—Wood Conversion Co
 KONICAL—Inland Steel Products Co
 KOPRO-C-P-15—Carey (Philip) Mfg Co
 KORD—Sterling Paint & Varnish Co
 KORDUCT—Johns-Manville Corp
 KORINA—U S Plywood Corp
 KROMIK—Sherwin-Williams Co
 KUVER-KRAK—Upson Co

L

LACTILE—Carey (Philip) Mfg Co
 LAMIDALL—Woodall Industries Inc
 LAMINO—Keasbey & Mattison Co
 LASTILE—Carey (Philip) Mfg Co
 LAUNDRETTE—Grane Co
 LAUX—Monsanto Chemical Co
 LAUX FUNGISEAL—Monsanto Chemical Co
 LAUX-GLUE—Monsanto Chemical Co
 LAUXITE—Monsanto Chemical Co
 LAUXTEX—Monsanto Chemical Co
 LAUXTINT—Monsanto Chemical Co
 LAVANET—Toledo Desk & Fixture Co
 LAYTITE—Connor Lumber & Land Co
 L-BLOW—Trade-Wind Motorfans Inc
 LEADER—Lufkin Rule Co
 LEAD-SEAL—Daniston Co
 LEATHERWOOD—Masonite Corp
 LEGO-FLEX LATCH—Laboratory Equipment Corp
 LEGO LATCH—Laboratory Equipment Corp
 LEE—Grant Pulley & Hdwe Co
 LEIGH—Air Control Products Inc
 LEPTYNE—Pittsburgh Plate Glass Co
 LESLIE LOUVERS—Leslie Welding Co
 LEVELALL—Levelall
 LEVELINE—Caldor Mfg Co
 LIBERTY—New York Wire Cloth Co
 LIFE-LINE—Westinghouse Electric Corp
 LIFETIME—Bennett-Ireland Inc
 LIFETIME—Reynolds Metals Co
 LIGHTNING—Pittsburgh Plate Glass Co
 LIGHTNING JOINT—Johns-Manville Corp
 LIGHT-SAVER—Fawcote Mfg Div Falls Stamping & Welding Co
 LIMELITE—Ohio Hydrate & Supply Co
 LIMPET—Keasbey & Mattison Co
 LINABESTOS—Keasbey & Mattison Co
 LINEAWAY—Fawcote Mfg Div Falls Stamping & Welding Co
 LINE-O-FLO—Barber-Colman Co
 LINOTILE—Armstrong Cork Co
 LIN-X—Sherwin-Williams Co
 LIQUID RAW-HIDE—Linsaed Oil Prod Co
 LITH-I-BAR—Lith-I-Bar Co
 LITH-I-BLOCK—Lith-I-Bar Co
 LITTLE AMERICAN—American Floor Surfacing Machine Co
 LOAD KING—Yale & Towne Mfg Co
 LOCK-JOINT—Inland Steel Products Co
 LOCKWOOD—Lockwood Hardware Mfg Co
 L-O-F—Libbey-Owens-Ford Glass Co

LOK'D BAR—Hope's Windows Inc
 LOK-JOINT—Insulite Div Minnesota & Ontario Paper Co
 LOK-TITE—Carr Adams & Collier Co
 LOMAINTEANCE—Allis-Chalmers Mfg Co
 LOTT—American Steel & Wire Co
 LOUVREX—Libbey-Owens-Ford Glass Co
 LOW-CHARGE—Jaeger Machine Co
 LOWDENSITE—Insulite Div Minnesota & Ontario Paper Co
 LOX-RIGHT—St. Paul Corrugating Co
 LUCKE LEAK PROOF—Lucke (Wm B) Co
 LUMINEX—Libbey-Owens-Ford Glass Co
 LUMITE—Lumite Div Chicopee Mills Inc
 LUMNITE—Universal Atlas Cement Co
 LUSTERLITE—Insulite Div Minnesota & Ontario Paper Co
 LUSTERTILE—Celotex Corp
 LUSTERTONE—Elkay Mfg Co
 LUX-RIGHT—St Paul Corrugating Co
 LYMAN—American Steel & Wire Co

M

MACOUSTIC—National Gypsum Co
 MADUCO—Macklanburg-Duncan Co
 MAGIC-AIRE—Huntington Industries Inc
 MAGIC CIRCLE—Hotpoint Inc
 MAGIC-DOOR—Stanley Works
 MAGNALITE—Mississippi Glass Co
 MAGNE-FILTER—American Radiator & Standard Sanitary Corp
 MAHONING—U S Gypsum Co
 MALTA UNIVERSAL—Malta Mfg Co
 MANHATTAN—Pittsburgh Plate Glass Co
 MARLITE—Marsh Wall Products Inc
 MARLITE DELUXE—Marsh Wall Products Inc
 MARLITE MARBEL PATTERNS—Marsh Wall Products Inc
 MARLITE VELVETEX—Marsh Wall Products Inc
 MARLITE WOOD PATTERNS—Marsh Wall Products Inc
 MAR-NOT—Sherwin-Williams Co
 MASONITE PRESWOOD—Masonite Corp
 MASTER—American Cabinet Hardware Corp
 MASTER-BILT—Bird & Son Inc
 MASTER-CAULK—Galbar Paint & Varnish Co
 MASTER FRAME—Anderson Corp
 MASTERIB—Penn Metal Co Inc
 MASTER-LOCK—Bird & Son Inc
 MASTER PAVE—Bird & Son Inc
 MASTER-PROFESSIONAL—Holt Mfg Co
 MASTER SECURITY—Kewanee Mfg Co
 MASTITE—Ohio Hydrate & Supply Co
 MATIGO—Mastic Tile Corp of America
 MAXAW—Cummins Portable Tools Div Cummins Chicago Corp

MAXDRIL—Cummins Portable Tools Div Cummins-Chicago Corp
 MAYFAIR—American Radiator & Standard Sanitary Corp
 MAZE—Libbey-Owens-Ford Glass Co
 MEDCO—Modusa Portland Cement Co
 MENGELBORD—Mengel Co
 MESHTEX—Penn Metal Co
 METALASTIC—Sherwin-Williams Co
 METALEAF—Pittsburgh Plate Glass Co
 METAL-FOLD—Huntington Industries Inc
 METALITE—Thorn (J S) Co
 METAPHRAM—Minneapolis-Honeywell Regulator Co
 MEYCO—Meyer Furnace Co
 MEZURALL—Lufkin Rule Co
 M-H—Minneapolis-Honeywell Regulator Co
 MIAMI—Industrial Machine Tool Co Inc Window Div
 MIAMI-CAREY—Carey (Philip) Mfg Co
 MICA-KOTE—Carey (Philip) Mfg Co
 MICARTA—Westinghouse Electric Corp
 MICROTHERM—Barber-Colman Co
 MICROTRON—Barber-Colman Co
 MIDGET KING—Yale & Towne Mfg Co
 MIGHTY MIDGET UNISHEAR—Stanley Works
 MILCOR—Inland Steel Products Co
 MIL-FLOOR—Celotex Corp
 MILO—Mengel Co
 MILWAUKEE—Milwaukee Electric Tool Corp
 MIMAX—Pittsburgh Plate Glass Co
 MINARET TIP—American Cabinet Hardware Corp
 MINERAL WOOL BOARD—Armstrong Cork Co
 MINI-MESH—Penn Metal Co Inc
 MIRACLE WALLS—Tylac Co
 MIRRORPANE—Libbey-Owens-Ford Glass Co
 MISCO—Mississippi Glass Co
 MOBILAIRE—Westinghouse Electric Corp
 MODERN CLASSIC—Coffman (R G) Co Inc
 MODERNFOLD—New Castle Products Co
 MODERN HOMES—Modern Homes Corp
 MODUFLOW—Minneapolis-Honeywell Regulator Co
 MODUTROL—Minneapolis-Honeywell Regulator Co
 MOHAWK—American Radiator & Standard Sanitary Corp
 MONARCH—Keystone Steel & Wire Co
 MONARCH—New Monarch Machine & Stamping Co
 MONITOR—American Steel & Wire Co
 MONOCORD—Weyerhaeuser Sales Co
 MONOFLO—Bell & Gossett Co
 MONOWALL—Armstrong Cork Co
 MOONGLO—Formica Co
 MORE-DRAIN—Borger Mfg Co Div Republic Steel Corp
 MOR-SUN—Morrison Steel Products Co

MORTASEAL—U S Gypsum Co
 MORTEX—Mortell (J W) Co
 MORTITE—Mortell (J W) Co
 MOSAIC—Mosaic Tile Co
 MOTIF'D—U S Gypsum Co
 MOTORELAY—Barber-Colman Co
 MOTO-SANDER—Dremel Mfg Co
 MOTO-SAW—Dremel Mfg Co
 MOTO-TOOL—Dremel Mfg Co
 MOULFLEX—Moultite Inc
 MOULTILE—Moultite Inc
 MUFFLETONE—Celotex Corp
 MULLINAIDER—Mullins Mfg Corp
 MULTICHROME—Stanley Works
 MULTIGRIP—United States Steel Co
 MULTI-MATIC—Remington-Rand Inc
 MULTIPLATE—Pittsburgh Plate Glass Co
 MULTI-PURPOSE—Flint & Walling Mfg Co Inc
 MULTI-SHINGLES—Barrett Div Allied Chemical & Dye Corp
 MULTI-STRAND—New York Wire Cloth Co
 MULTIVANE—Westinghouse Electric Corp Sturtevant Div
 MURALAC—Tylac Co
 MURALEX—Libbey-Owens-Ford Glass Co
 MURAL-TONE—Murale Co Inc
 MURATILE—Mosaic Tile Co
 MW-50—Carey (Philip) Mfg Co
 MW-40—Carey (Philip) Mfg Co

N

NARROLINE—Anderson Corp
 NATIONAL—American Steel & Wire Co
 NATIONAL SYSTEM—National System of Garage Ventilation Inc
 NATROCO—National Mfg Corp
 NAVAJO—American Radiator & Standard Sanitary Corp
 NEPONSET—Bird & Son Inc
 NEPTUNE—Fiat Metal Mfg Co
 NETMESH—Inland Steel Products Co
 NEVAMAR—National Plastic Products Co
 NEVERSTAIN—Nichols Wire & Aluminum Co
 NEWMARBLE—Ruberoid Co
 NEW MONARCH IN-A-SLIDE—New Monarch Machine & Stamping Co
 NI-CLAD—Lufkin Rule Co
 NILES—Bostwick Steel Lath Co
 NITEAIR—Lau Blower Co
 NIXALITE—Nixalite Co of America
 NOANS PITCH—Carey (Philip) Mfg Co
 NO-DRIP—Mortell (J W) Co
 NOKORODE—Chase Brass & Copper Co Inc
 NON-CLIMBABLE—Keystone Steel & Wire Co
 NON-SYPHONING—Inland Steel Products Co
 NO 20—Carey (Philip) Mfg Co
 NO 25—Carey (Philip) Mfg Co
 NORGE HEAT—Norge Heat Div Borg Warner Corp
 NORTHWOOD—Insulite Div Minnesota & Ontario Paper Co
 NOVOPLY—United States Plywood Corp
 NOX-EM-ALL—Barrett Div Allied Chemical & Dye Corp
 NU-ALPINA—Inland Steel Products Co
 NU-ART—Macklanburg-Duncan Co
 NU-CALK—Macklanburg-Duncan Co
 NUCITE—Pittsburgh Plate Glass Co

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NU-FRAME—Rudiger-Lang Co
 NU-GARD—Macklanburg-Duncan Co
 NU-GLAZE—Macklanburg-Duncan Co
 NU-KOIL—Macklanburg-Duncan Co
 NU-LUME—Macklanburg-Duncan Co
 NU-METAL—Macklanburg-Duncan Co
 NU-PHALT—Macklanburg-Duncan Co
 NURDID—Flintkote Co
 NU-STATIC—Flintkote Co
 NU-STYLE—Carr Adams & Collier Co
 NU-WALL—Nu-Wall Mfg Co
 NU-WAY—Macklanburg-Duncan Co
 NU-WOOD—Wood Conversion Co

O

OHIO—Ohio Hydrate & Supply Co
 OHIO AUTOGLAYED—Ohio Hydrate & Supply Co
 OHIO MASONS—Ohio Hydrate & Supply Co
 OHIO RITEWALL—Ohio Hydrate & Supply Co
 OHIO SANLIME—Ohio Hydrate & Supply Co
 OHIO WHITE AUTOGLAYED—Ohio Hydrate & Supply Co
 OLD AMERICAN—American Asphalt Roof Co
 OLIVER—Oliver Corp
 ONE-DER FRAMES—One-Der Frame Corp
 100 PLUS—Stanley Works
 ON-GUARD—Macklanburg-Duncan Co
 OPAL—New York Wire Cloth Co
 OPEN-TRUSS—Truscon Steel Co
 OPTIONAL KOLOR PLAN—Gro-Dipt Co Inc
 ORANGE—Virginia Metal Products Corp
 ORIENTAL—U S Gypsum Co
 ORNALITE—Haskelite Mfg Corp
 "O-T"—Truscon Steel Co
 OVERDOOR—Truscon Steel Co
 OVERHEAD DOOR—Overhead Door Corp
 OVERMATIC—Curtis Companies Inc
 OVER-THE-TOP—Frantz Mfg Co
 OVER-WAY—Richards Wilcox Mfg Co

P

PACEMAKERS—Harnischfeger Corp
 PACKAGED WEATHER—General Electric Co
 PAC-TEX—U S Gypsum Co
 PAINTBOND—United States Steel Co
 PAINTLOK—Republic Steel Corp
 PAINTOVR—American Cabinet Hardware Corp
 PALCO—Pacific Lumber Co
 PANAMOID—Barrett Div Allied Chemical & Dye Corp
 PANELBESTOS—Ruberoid Co
 PANELWOOD—Masonite Corp
 PARAB-O-LUME—Berger Div Republic Steel Corp
 PARAGON—Barrett Div Allied Chemical & Dye Corp
 PARKAY—Parkay Inc
 PAROID—Bird & Son Inc
 PARQUETRY—Mastic Tile Corp of America
 PARQ WALL—Atlas Plywood Corp
 PATROL—Certain-teed Products Corp

PC—Pittsburgh Corning Corp
 PEBBLEX—Libbey-Owens-Ford Glass Co
 PEGOMASTIC—Pecora Paint Co
 PEERLESS—American Steel & Wire Co
 PEERLESS—U S Gypsum Co
 PEG-BOARD—Butler B B Mfg Co Inc
 PEG BOARD—Masonite Corp
 PELLA—Rolscreen Co
 PENMETAL—Penn Metal Co Inc
 PENNYVERNON—Pittsburgh Plate Glass Co
 PENTECOR—Mississippi Glass Co
 PENTRA-SEAL—American Floor Surfacing Machine Co
 PERCOPROOF—Carey (Philip) Mfg Co
 PERF-A-TAPE—U S Gypsum Co
 PERFATILE—U S Gypsum Co
 PERFATONE—U S Gypsum Co
 PERFECTION—American Steel & Wire Co
 PERFECTION—Inland Steel Products Co
 PER-FIT—Per-Fit Products Corp
 PERFORLATH—Certain-teed Products Corp
 PERFORALL—Woodall Industries Inc
 PERFORATED FELTEX—Carey (Philip) Mfg Co
 PERM-ALIGN—Cummins Portable Tools Div—Cummins-Chicago Corp
 PERMALITE—Great Lakes Carbon Corp
 PERMASSET—Flintkote Co
 PERMASON—Monsanto Chemical Co
 PERMA-STAIN—Parma Products Co (The)
 PERMATITE—General Bronze Corp
 PERMATONE WHITE—Johns-Manville Corp
 PERMO—Fiat Metal Mfg Co
 PESTROY—Sherwin-Williams Co
 PETAL TONE—Mastic Tile Corp of America
 P&H—Harnischfeger Corp
 PHOENIX—Russell (F C) Co
 PHOENIX—Samson Cordage Works
 PICK-UP CART—Inland Steel Products Co
 PILOT—Fasco Industries Inc
 PILOT—Johns-Manville Corp
 PIONEER—Flintkote Co
 PITPGAULK—Pittsburgh Plate Glass Co
 PITTCHLOR—Pittsburgh Plate Glass Co
 PITTCIDE—Pittsburgh Plate Glass Co
 PITTCO—Pittsburgh Plate Glass Co
 PITTSBURGH INTER-LOCK—Jones & Brown Inc
 PIVOT-LIFT—Frantz Mfg Co
 P&K—Harnischfeger Corp
 PLANET—Johns-Manville Corp
 PLANTATION—Lawson (F H) Co
 PLASCO UTILITY—Pittsburgh Plate Glass Co
 PLASTIC ELASTIGUM—Barrett Div Allied Chemical & Dye Corp
 PLASTICO—Barrett Div Allied Chemical & Dye Corp
 PLASTICO—Warren-Knight Co
 PLASTIC PB—Barrett Div Allied Chemical & Dye Corp
 PLASTIMAX COLLOIDAL—U S Gypsum Co

PLUG-IN—National Elec Products Corp
 PLUGMOLD—Wiremold Co
 PLURALITE—Mississippi Glass Co
 PLY-FOLD—Atlas Plywood Corp
 PLYSHEET—Georgia-Pacific Plywood & Lumber Co
 P-MIR-DEK—Miracle Adhesive Corp
 POLISH-OL—Sherwin-Williams Co
 PORCHIDE—Pittsburgh Plate Glass Co
 PORTER - CABLE—Porter - Cable Machine Co
 PORTO-SHEAR—Black & Decker Mfg Co
 POTTSO—Celotex Corp
 POWERAIR—Westinghouse Electric Corp
 POWERSTAT—Mercoind Corp
 PRECIPITRON—Westinghouse Electric Corp
 PRECISION—Precision Parts Corp
 PRECISION-BUILT—Hemasote Co
 PREMIER—American Steel & Wire Co
 PREMIER—Bradley Lumber Co of Ark
 PRE-PAC—Flintkote Co
 PRESODPLY—Masonite Corp
 PRESWOOD—Masonite Corp
 PRESERVOL—Ruberoid Co
 PRESPIRE—Curtis Cos Inc
 PRESSURE-SEAL—Anderson Corp
 PRESTILE—Prestile Mfg Co
 PRIME-KOTE—Carey (Philip) Mfg Co
 PROMENADE TRAFFIC TOP—Celotex Corp
 PROSLATE—Bird & Son Inc
 PROTECTIVE COVER-DRI—Flintkote Co
 PROTECTO—Superior Fireplace Co
 PROTECTOR—American Steel & Wire Co
 PROTECTORRELAY—Minneapolis-Honeywell Regulator Co
 PROTECTUB—Protectub Inc
 PROTEK-WOOD—U S Plywood Corp
 PROTEXIT—Barratt Div Allied Chemical & Dye Corp
 PROTOKOTE—U S Gypsum Co
 PRY-LITE—Pryne & Co Inc
 PULL-LIFT—Yale & Towne Mfg Co
 PULL-PUSH—Stanley Tools Div Stanley Works
 PUL-TITE—Stanley Works
 PURITAN—U S Gypsum Co
 PUSHMATIC—Buildog Electric Products Co
 PUSH-OVER—Allith-Prouty Inc
 PUTTY MASTER—Fastener Corp
 PYRALUX—Du Pont (E I) de Nemours Co
 PYROBAR—U S Gypsum Co
 PYROFILL—U S Gypsum Co
 PYROMENT—Keasbey & Mattison Co

Q

QUICK-MIX—Ohio Hydrate & Supply Co (The)
 QUICK-WAY—Peterson Products Co
 QUIKBRIK—American Cement Products Corp
 QUONSET—Great Lakes Steel Corp

R

RADIA—Shepler Mfg Co
 RAMSET JOBMASTER—Ramset Fasteners
 RAMSET TRU-SET—Ramset Fasteners

RANCH PLANK—Bruce (E L) Co
 RANCH TYPE—Lawson (F H) Co
 RANDALITE—U S Plywood Corp
 RA-TOX—Hough Shade Corp
 RAYFLEX—Flintkote Co
 REALOCK—Wickwire Spencer Steel Div Colorado Fuel & Iron Co
 RED BRAND—Keystone Steel & Wire Co
 RED CENTER—Simonds Saw & Steel Co
 RED CIRCLE—Simonds Saw & Steel Co
 RED DEVIL—Pecora Paint Co
 REDEGE—National Electric Products Corp
 RED END—Lufkin Rule Co
 RED END—Simonds Saw & Steel Co
 REDIPREP—Upson Co
 RED STREAK—Simonds Saw & Steel Co
 RED TANG—Simonds Saw & Steel Co
 RED TOP—Keystone Steel & Wire Co
 REDTOP—U S Gypsum Co
 REEDEX—Libbey-Owens Ford Glass Co
 REGLEX—Libbey-Owens-Ford Glass Co
 RELIABLE—Allith-Prouty Co
 RE-NU—Flintkote Co
 REPUBLIC—Republic Steel Corp
 RESINIZED-SPEED-GRITS—Behr-Manning Corp
 RESOLITE—Resolite Corp
 REVERBOLITE—Celotex Corp
 REX—Flintkote Co
 REX PAR—Sherwin-Williams Co
 REXTAB—Flintkote Co
 REXVANE—Westinghouse Electric Corp
 REYN-O-CELL—Reynolds Metals Co
 REZ—Monsanto Chemical Co
 REZIGOTE—Monsanto Chemical Co
 REZITEX—Monsanto Chemical Co
 REZEX—Paine Lumber Co
 RHINO—Pecora Paint Co Inc
 RICHARDSON—Flintkote Co
 RICHBEAD—Richkraft Co (The)
 RICHFLEX—Richkraft Co (The)
 RICHGLAZE—Richkraft Co (The)
 RICHKRAFT—Richkraft Co (The)
 RICHKURE—Richkraft Co (The)
 RILCO—Rilco Laminated Products Inc
 RILCORD—Rilco Laminated Products Inc
 RIPLEX—Berger Mfg Div Republic Steel Corp
 RITE-LOCK—Adams-Rite Mfg Co
 RITEWALL—Ohio Hydrate & Supply Co
 R I W—Toch Brothers Inc
 R I W LIQUID KONKERIT—Toch Brothers Inc
 R I W PLUG-A-LEAK—Toch Brothers Inc
 ROCKET—Grant Pulley & Hdwe Co
 ROCKFORD—National Lock Co
 ROCKLATH—U S Gypsum Co
 ROCKOUSTILE—Johns-Manville Corp
 ROCKTEX—Carey (Philip) Co
 ROCKTITE—Wesco Waterpaints Inc
 RODDISCRAFT—Roddiss Plywood Corp
 ROLGO—Rolscreen Co
 ROLITE—Rolscreen Co
 ROLL-AWAY—Frantz Mfg Co
 ROLL-EEZ—Junior-Pro Products Co

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ROLLER COATER—Sherwin-Williams Co
 ROLL-N-FOLD—Majestic Co
 ROLL-O-HOIST—Construction Machinery Sales Co
 ROLL-POINT—American Cabinet Hardware Co
 ROLL-UP—Stanley Works
 ROLL-R-WEDG—Richards Wilcox Co
 ROMFH—Ludman Corp
 ROOFINSUL—Johns-Manville Corp
 ROOF RENUR—American Asphalt Roof Co
 ROTQ—Truscon Steel Co
 ROTO-CLONE—Herman Nelson
 ROTOVENT—Curtis Cos Inc
 ROW—ROW Sales Co
 R O W—R O W Sales Co
 ROYAL—American Steel & Wire Co
 ROYAL—Chattanooga Implement & Mfg Co
 RUBBER LIKE—Bird & Son Inc
 RUBBER ROLLER—American Cabinet Hardware Corp
 RUBBERTEX—Flintkote Co
 RUBERINE—Ruberoid Co
 RUFTEX—Flintkote Co
 RUNWELL—Frantz Mfg Co
 RUSCO—Russell (F C) Co
 RUSSWIN—Russell & Erwin Mfg Div American Hardware Corp
 RUTHLESS—Keystone Steel & Wire Co

S

SABINITE—U S Gypsum Co
 SACHEM—Samson Cordage Works
 SAFEGUARD—Sterling Hardware Mfg Co
 SAFEKOTE—Ruberoid Co
 SAFE-N-DRY—Ruberoid Co
 SAFETY CIRCLE—Allis-Chalmers Mfg Co
 SAGINAW—American Radiator & Standard Sanitary Corp
 SAG-NOTT—Harbor Plywood Corp
 ST PAUL—St Paul Corrugating Co
 SALESMAKER—Bruce (E L) Co
 SANACOUSTIC—Johns-Manville Corp
 SANLINE—Ohio Hydrate & Supply Co
 SANTOBANE—Monsanto Chemical Co
 SANTOBRITE—Monsanto Chemical Co
 SARATOGA—American Radiator & Standard Sanitary Corp
 SATINCOTE—Insulite Div Minnesota & Ontario Paper Co
 SATINOL—Libbey-Owens-Ford Glass Co
 SATIN SPAR—Certain-feed Products Corp
 SATUROCK—Carter-Waters Corp
 SAVA-MAID—Crosley Div Avco Mfg Corp
 SAX—Aldrich Co
 SCARLET OAK—Coffman (R O) Co Inc
 SCHUFLI—Pittsburgh Plate Glass Co
 SCREW-TITE—Independent Nail & Packing Co
 SCRUGUN—Black & Decker Mfg Co
 SCRUI-TITE—Bennett-Ireland Inc
 SEALDHEX—Flintkote Co
 SEALDON—Certain-feed Products Corp
 SEALEDGE—Flintkote Co
 SEALED GRAYLITE LOK-JOINT—Insulite Div Minnesota & Ontario Paper Co
 SEALKOTE—Keasbey & Mattison Co

SEASON-STAT—Mueller (L J) Furnace Co
 SEA SWIRL—Associated Plywood Mills Inc
 SELECTAIR—Johnson (S T) Co
 SELF-SENERING—Truscon Steel Co
 SEL-VI-LAP—U S Gypsum Co
 SEMAPHORE—Barrett Div Allied Chemical & Dye Corp
 SEMI LUSTRE—Sherwin Williams Co
 SENECA—American Radiator & Standard Sanitary Corp
 SENSATHERM—Mercoind Corp
 SENTRY—New York Wire Cloth Co
 SEVEN STAR IMPERIAL—U S Gypsum Co
 SEWERTITE—Carey (Philip) Mfg Co
 SHADOLINE—American Asphalt Roof Corp
 SHAD-O-LINE—Upson Co
 SHADOTONE—Flintkote Co Corp
 SHADOW-LINE—Wood Conversion Co
 SHADOW-LOCK—U S Gypsum Co
 SHAKERTOWN—Perma Products Co
 SHANK GAP—Bennett-Ireland Inc
 SHAWNEE—American Radiator & Standard Sanitary Corp
 SHAWNEE—Flintkote Co
 SHEDWELL—Frantz Mfg Co
 SHEETFLEXIOS—Keasbey & Mattison Co
 SHEETROCK—U S Gypsum Co
 SHELF-X—U S Gypsum Co
 SHELVDOR—Crosley Corp
 SHERARDUCT—National Electric Products Corp
 SHINGLE-BACKER—Insulite Div Minn & Ontario Paper Co
 SHINGLECOAT—Barrett Div Allied Chemical & Dye Corp
 SHINGL-ROL—U S Gypsum Co
 SHINGLISTIK—American Asphalt Roof Corp
 SHIPLEY—York Shipley Inc
 SHURLOK—Flintkote Co
 SI-CLONE—Simonds Saw & Steel Co
 SIFO—U S Gypsum Co
 SILCON BRONZE—Chase Brass & Copper Co Inc
 SILENT—National Mfg Co
 SILENTAIRE—Berger Mfg Co Div Republic Steel Corp
 SILENTITE—Curtis Cos Inc
 SILENTVANE—Westinghouse Electric Corp Sturtevant Div
 SIL-O-ETTE—U S Gypsum Co
 SILVERSTONE—American Asphalt Roof Corp
 SISALATION—Sisalkraft Co
 SISALKRAFT—Sisalkraft Co
 S I S—Barrett Div Allied Chemical & Dye Corp
 SKIPPER—Fiat Metal Mfg Co
 SKUPPRUF—Richkraft Co
 SKX—Sisalkraft Co
 SKYLINE—Flintkote Co
 SKYTEX—Libbey-Owens-Ford Glass Co
 SLATEKOTE—Johns-Manville Corp
 SLIDE-A-FOLD—Craig Wood-Products Co
 SMALMESH—Inland Steel Products Co
 SMOOTHCOTE—Insulite Div Minnesota & Ontario Paper Co
 SMOOTHLITE—Insulite Div Minn & Ontario Paper Co

SMOOTHWALL—Johns-Manville Corp
 SNAPTITE—Berger Mfg Div Republic Steel Corp
 SNOLITE—Pittsburgh Plate Glass Co
 SNOW DRIFT—U S Gypsum Co
 SNUGFIT—Paine Co (The)
 SOLEX—Pittsburgh Plate Glass Co
 SONOAIRODUCT—Sonoco Products Co
 SONOTUBE—Sonoco Products Co
 SOUTHERNER—Norman Products Co
 SPACEMAKER—Steelcraft Mfg Co
 SPACEMASTER—New Castle Products Co
 SPECIFICATION—Barrett Div Allied Chemical & Dye Corp
 SPEED—Louisville Cement Co
 SPEE-DEE—Dalton Mfg Co
 SPEED HOMELINE—Louisville Cement Co
 SPEEDLAY—Certain-feed Products Co
 SPEEDMATIC—Porter-Cable Machine Co
 SPINNER—American Floor Surfacing Machine Co
 SPINNER—Inland Steel Products Co
 SPOT—Samson Cordage Works
 SPREAD EASY—Debs Decorators
 SPRING WING—Paine Co (The)
 SP SUPREME—Southern Pine Lbr Co
 SQUARE DEAL—Keystone Steel & Wire Co
 SQUARE DEAL—Upson Co
 SQUARE GUTTER—Inland Steel Products Co
 STA-DRI—American Sta-Dri Co
 STA-FAST—Texas Co
 STA-LITE—Wood Conversion Co
 STALWART—Flintkote Co
 STANDARD—American Cabinet Hardware Corp
 STANDARD—Williamson Heater Co
 STANDARD DUOLUX—Masonite Corp
 STANDARD PRESSEDWOOD—Masonite Corp
 STANLEY-CARTER—Stanley Works Stanley Electric Tools Div
 STANLOID—Stanley Works
 STAPLE-LOX—Flintkote Co
 STAR—Turner & Seymour Mfg Co
 STAR—U S Gypsum Co
 STARCRAFT—U S Gypsum Co
 STAREX—Ruberoid Co
 STA-SLATE—Ruberoid Co
 STA-STRAIT—Southern Pine Lbr Co
 STATIC—Flintkote Co
 STATITE—Angier Corp
 STAY-RIB—Inland Steel Products Co
 STEADFAST—Flintkote Co
 STEEL-FLITE BIN-VEYOR—Keasbey Mfg Co
 STEELMESH—Penn Metal Co Inc
 STEEP-SLOPE—Bennett-Ireland Inc
 STERLEX—Libbey-Owens-Ford Glass Co
 STERLING—Sterling Hdwe Mfg Co
 STERLING—Warren-Knight Co
 STOK-A-TIMER—Mercoind Corp
 STOKERELAY—Minneapolis-Honeywell Regulator Co
 STOKERMATIC—Rheem Mfg Co
 STOKermatic Div
 STONEFELT—Johns-Manville Corp

STONESET—Medusa Portland Cement Co
 STONESULATE—Carey (Philip) Mfg Co
 STONEWALL—Ruberoid Co
 STOR-IN-DOOR—Grote Mfg Co Inc
 STORMPROOF—National Mfg Co
 STORMSEAL—American Steel & Wire Co
 STORMSEAL—United States Steel Co
 STRAND—Fenestra Building Products
 STRAN-STEEL—Great Lakes Steel Corp
 STRATOLINE—American Cabinet Hardware Corp
 STREAMAIRE—Young Radiator Co
 STREAMLINE—Tylac Co
 STREAMLUX—American Cabinet Hardware Corp
 STRI-COLOR—Flintkote Co
 STRIKE-RITE—Stanley Works
 STRIPITE—Bostwick Steel Lath Co
 STRIPITE—Penn Metal Co Inc
 STRONG-BILT—Upson Co
 STRONGHOLD—Independent Nail & Packing Co
 STRUCTO-GAL—U S Gypsum Co
 STRUCTOLITE—U S Gypsum Co
 STRUCTROBOARD—U S Gypsum Co
 STRUCTURAL CORRUGATED—Mississippi Glass Co
 STUCCO MESH—U S Gypsum Co
 STURDIBILT—Elkay Mfg Co
 STURDY—Calder Mfg Co
 SUDDEN DEPTH—Paine Co (The)
 SUNBEAM—American Radiator & Standard Sanitary Corp
 SUNFLEX—National Gypsum Co
 SUNFLOWER—Certain-feed Products Corp
 SUNFLOWER—Ohio Hydrate & Supply Co
 SUN-GLO—Pittsburgh Plate Glass Co
 SUNPROOF—Pittsburgh Plate Glass Co
 SUN-SASH—Sun-Sash Co
 SUN VITA—Keystone Wire Cloth Co
 SUPERAIR—Majestic Co
 SUPER-EX—Inland Steel Products Co
 SUPER-FELT—Johns-Manville Corp
 SUPER-HARBORD—Harbor Plywood Corp
 SUPER HARBORD PLYCRETE—Harbor Plywood Corp
 SUPERIOR—Carr Adams & Collier Co
 SUPERIOR—Crane Company
 SUPERIOR—Inland Steel Products Co
 SUPERMETIC—Serval Inc
 SUPER-PLYCRETE—Harbor Plywood Corp
 SUPER-SAW—R C S Tool Sales Corp
 SUPER STEEL—Williamson Heater Co
 SUPER-STRIP—Carey (Philip) Mfg Co
 SUPER-TEMPERED—Wickwire Spencer Steel Corp
 SUPER-TITE—U S Gypsum Co
 SUPER WEIGHT—Barrett Div Allied Chemical & Dye Corp
 SUPER-X—Republic Steel Corp
 SUPREME—Malta Mfg Co
 SUPREME—Samson Cordage Works
 SUPREME—Southern Pine Lumber Co

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SURE GRIP—Samson Cordage Works
SUREGRIP—Stanley Works
SURETY—Carey (Philip) Mfg Co
SWANEE—Berger Mfg Div Republic Steel Corp
SWING-UP—Stanley Works
SWP—Sherwin-Williams Co
SYNTAX—Flintkote Co
SYNTRON—Syntron Co
SYRACUSE—Porter-Cable Machine Co

T

TAPERLOX—Flintkote Co
TAPERTEX—Flintkote Co
TAPGUN—Black & Decker Mfg Co
TARBESTOS—Carey (Philip) Mfg Co
TAR-ROK—Barrett Div Allied Chemical & Dye Corp
TASGOM—Gabol (Samuel) Inc
TAXITE—Sherwin-Williams Co
TECHIDE—Pittsburgh Plate Glass Co
TECO—Timber Engineering Co
TECTON—Bird & Son Inc
TEE-LOCK—American Asphalt Roof Corp
TEE-LOK—Ruberoid Co
TEKWOOD—U S Plywood Corp
TEMBORD—Armstrong Cork Co
TEM-CLIPS—Armstrong Cork Co
TEMLOK—Armstrong Cork Co
TEMPERED DUOLUX—Masonite Corp
TEMPERED PRESWOOD—Masonite Corp
TEMPERED TEMWOOD—Armstrong Cork Co
TEMPRTILE—Masonite Corp
TEMPRYTE—Truscon Steel Co
TEMWOOD—Armstrong Cork Co
TENLIME—Woodville Lime Co
TENNESEAL—Tennessee Coal Iron & Railroad Co
TENSION-TITE—Rudiger-Lang Co
TEN-TEN—Allith-Prouty Inc
TERMINIX—Bruce (E L) Co
TERRAFLEX—Johns-Manville Corp
TERRATOX—Wood-Treating Chemical Co
TEXACO—Texas Co
TEXBORD—Celotex Corp
TEX-LOK—Texas Co
TEXOLITE—U S Gypsum Co
TEXROPE—Allis-Chalmers Mfg Co
TEX-TAB—Ruberoid Co
TEXTOLITE—General Electric Co Chemical Div
TEXTONE—U S Gypsum Co
THATCHSULATE—Carey (Philip) Mfg Co
THE OVERHEAD DOOR—Overhead Door Corp
THERMACOUSTIC—National Gypsum Co
THERMAL-FLO—Coleman Co Inc
THERMASTER—Thatcher Furnace Co
THERMAX—Celotex Corp
THERMOBRIC—Globe Siding Products Corp
THERMO-CON—Higgins Inc
THERMOCRETE—Certain-lead Products Co
THERMOFILL—U S Gypsum Co
THERMO-GRIP—Ideal Industries Inc
THERMOPANE—Libbey-Owens-Ford Glass Co
THERMO-PANEL—Ohio Plate Glass Co
THERMOPLOT—General Controls Co
THERMOSEAL—Flintkote Co
THERMO-SEAL—Russell (F C) Co

THERMOTEX B—Carey (Philip) Mfg Co
THIKBRIK—Flintkote Co
THIKBUT—Flintkote Co
THOROLITH—Standard Dry Wall Products Inc
THOROSEAL—Standard Dry Wall Products Inc
THREE SIXTY—Norman Products Co
THRIFTEX—Flintkote Co
TIGER—Samson Cordage Works
TIGER—Texas Co
TIGER BRAND—American Steel & Wire Co Div U S Steel Corp
TILE ROOFING—Carey (Philip) Mfg Co
TILE-TEX—Flintkote Co
TIMBERGRAIN—Ruberoid Co
TIMBERTEX—Ruberoid Co
TIME-O-SWITCH—Minneapolis-Honeywell Regulator Co
TIMBERGOLD—Mercoid Corp
TIMERELAY—Minneapolis-Honeywell Regulator Co
TI-NAMEL—Inland Steel Products Co
TINNER'S RED—Pittsburgh Plate Glass Co
TIN-O-LIN—Galbar Paint & Varnish Co
TITE-LAP—Barrett Div Allied Chemical & Dye Corp
TITE-LOCK—Barrett Div Allied Chemical & Dye Corp
TITELock—Inland Steel Products Co
TITE-LOK—American Asphalt Roof Corp
TITE-ON—Ruberoid Co
TITE-ROPE—Samson Cordage Works
TOMAHAWK—Barrett Div Allied Chemical & Dye Corp
TOMB—Barrett Div Allied Chemical & Dye Corp
TONGAN—Republic Steel Corp
TOPCO—Malta Mfg Co
TOR-ON—Pittsburgh Plate Glass Co
TORPEDO—Inland Steel Products Co
TORPEDO—Lawson (F H) Co
TRAFFIC TOP—Celotex Corp
TRAFFORD TILE—Keasbey & Mattison Co
TRANSEX—Libbey-Owens-Ford Glass Co
TRANSITE—Johns-Manville Corp
TRANSITE CONDUIT—Johns-Manville Corp
TRANSITE KORDUCT—Johns-Manville Corp
TRAVACOUSTIC—National Gypsum Co
TRAVERTONE—Armstrong Cork Co
TRIANGLE—Keystone Steel & Wire Co
TRI-MESH—Keystone Steel & Wire Co
TRIM-TONE—U S Plywood Corp
TRIPLE DRAIN—Republic Steel Corp
TRIPLE LOCK—Deniston Co
TRIPLE-SEAL—Celotex Corp
TRIPLE-SEAL—Weatherproof Products Corp
TRIPLETAB—Flintkote Co
TRIPLE-VENT—U S Gypsum Co
TRIP-L-GRIP—Timber Engineering Co
TRIP-L-IFE—Williamson Heater Co
TRI-SAW—R G S Tools Sales Corp
TRI-SEAL—Sherwin-Williams Co

TRI-TAB—Bird & Son Inc
TRI-TONE—Carey (Philip) Mfg Co
TRIUMPH—Inland Steel Products Co
TROLLEY—Allith-Prouty Inc
TROUBLE SAVER—Patent Scaffolding Co Inc
TROUBLE SAVER—Steel Scaffolding Co Inc
TRU-BILT—West Coast Plywood Co
TRU-FORM—Boice-Crane Co
TRU-GRAIN—Johns-Manville Corp
TRUSCON—Truscon Steel Co
TRU-SEAL—Industrial Machine Tool Co Inc
TRU-SIZED—Wheeler Osgood Co
TRUSS-LOOP—Bostwick Steel Lath Co
TRUSSTEEL—U S Gypsum
TRUSS-WING—Bostwick Steel Lath Co
TRU-TYE—Dravo Corp
TUB-CAULK—Miracle Adhesives Corp
TUBELOX—Patent Scaffolding Co Inc
TU-BORS—Barrows Lock Works
TUFF-BOND—Moore (Goodloe E) Co
TUFF-GOTE—Moore (Goodloe E) Co
TUF-FLEX—Libbey-Owens-Ford Glass Co
TUFFLEX—Wood Conversion Co
TUFF-TRED—Moore (Goodloe E) Co
TUFF-WOOD—Wood Conversion Co
TUF-LUSTRE—Bruce (E L) Co
TULINE—Certain-lead Products Corp
TURBOVANE—Westinghouse Electric Corp Sturtevant Div
TURN-OVER—Coburn Trolley Track Products Wickwire Spen- cer Steel Div Colorado Fuel & Iron Corp
TUSCAR—Pittsburgh Plate Glass Co
TUTCH LATCH—National Lock Co
TWIN-CUSHION—Macklanburg-Duncan Co
TWINDOW—Pittsburgh Plate Glass Co
TWINFUEL—Norman Products Co Inc
TWIN LOCK—Bird & Son Inc
TWIN-RING—Coleman Co
TWIN-TILE—U S Gypsum Co
TWO DRAIN—Inland Steel Products Co
TYLA-CHROME—Tylac Co
TYLACHROMET—Tylac Co
TYLITE—Tylac Co

U

U-LOY—Republic Steel Corp
UNIFIL—Robinson Insulation Co
UNI-FIN—Barber-Colman Co
UNI-FLO—Barber-Colman Co
UNIGRID—Truscon Steel Co
UNILITE—U S Plywood Corp
UNIPULL—Bennett-Ireland Inc
UNISHEAR—Stanley Electric Tools Div Stanley Works
UNITAIRE—Westinghouse Electric Corp Sturtevant Div
UNITED STATES (U S)—Emerson Electric Mfg Co
UNIVERSAL—Carey (Philip) Mfg Co

UNIVERSAL—Certain-lead Products Corp
UNIVERSAL-RUNDLE—Universal-Rundle Corp
UPSON—Republic Steel Corp
UPSON DUBL-THIK—Upson Co
UPSON KUVEN-KRAK—Upson Co
UPSON STRONG-BILT—Upson Co
U S—American Steel & Wire Co
USF—United Steel Fabricators Inc
USG—U S Gypsum Co
USP—U S Plywood Corp
USS—American Steel & Wire Co
USS—Cyclone Fence Co
USS—National Tube Co
USS—Tennessee Coal Iron & Railroad Co
USS—United States Steel Co
USS AMERICAN—American Steel & Wire Co
USS CARILLOY—United States Steel Co
USS COR TEN—Tennessee Coal Iron & Railroad Co
USS STORMSEAL—American Steel & Wire Co
USS STORMSEAL—United States Steel Co
USS TENNESEAL—Tennessee Coal Iron & Railroad Co
USS VITRENAMEL—United States Steel Co
UTICA SERIES—Utica Radiator Corp

V

VACKAR—Black & Decker Mfg Co
VACUUM DRAFT—Norge Heat Div Borg Warner Corp
VAN PACKER—Van Packer Corp
VARIJET—Flint & Walling Mfg Co Inc
VARI-O-LITE—Flintkote Co
VARI-PITCH—Allis-Chalmers Mfg Co
VELVAGRIP—American Cabinet Hardware Corp
VELVET—Keasbey & Mattison Co
VELVETEX—Mosaic Tile Co
VELVEX—Libbey-Owens-Ford Glass Co
VEL WOOD—Marsh Wall Products Inc
VENTURA—American Blower Corp Div American Radiator & Standard Sanitary Corp
VENTURI-FLO—Barber-Colman Co
VEOS—Armstrong Cork Co
VERMONT—Ruberoid Co
VIBRAFRAM—Celotex Corp
VIBRAPAC—Besser Mfg Co
VICTOR—Richards Wilcox Mfg Co
VICTOR—Stanley Works
VIMLITE—Celanese Corp of America Plastics Div
VINTAGE—Coffman (R G) Co Inc
VISAFLEAME—Mercoid Corp
VISCOROID—Abesto Mfg Co
VISKALT—Flintkote Co
VISKOTE—Flintkote Co
VISTA—Pittsburgh Plate Glass Co
VITOLLOIL—Pittsburgh Plate Glass Co
VITRAMIC—Ruberoid Co
VITREKOTE—Flintkote Co
VITRENAMEL—United States Steel Co
VITRICEL—Carey (Philip) Mfg Co
VITROLINER—Condensation Engineering Co
VITROLITE—Libbey-Owens-Ford Glass Co
VMP—Virginia Metal Products Corp
VOLOCITROL—Barber-Colman Co

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VORTEX—Westinghouse Electric Corp Sturtevant Div
VULCANITE—Certain-foed Products Corp

W

WAKCO—Warren-Knight Co
WALK-OVER—Barrett Div Allied Chemical & Dye Corp
WALL-FLEX—R C A Rubber Co
WALLHIDE—Pittsburgh Plate Glass Co
WALTILE—Keasboy & Mattison Co
WAPPAT—Mall Tool Co
WARM-AIRE—Bennott-Ireland Inc
WARWOOD—Lawson (F H) Co
WASHBURNE—National Mfg Co
WASP—Stanley Werks
WASTE-AWAY—Westinghouse Electric Corp Appliance Div
WASTEKING—Given Mfg Co
WATERDYKE—Bird & Son Inc
WATERPLUG—Standard Dry Wall Products Inc
WATERSPAR—Pittsburgh Plate Glass Co
WATSON—Ruberoid Co
WAUKEGAN—American Steel & Wire Co
WAVELINE—Flintkote Co
WEATHER-BLOC—Air Rectifiers Inc
WEATHERBOARD—Carey (Phillip) Mfg Co
WEATHERCALK—Pecora Paint Co Inc
WEATHERCOTE—American Asphalt Roof Corp
WEATHERGOOD—U S Gypsum Co
WEATHERLOK—Johns-Manville Corp
WEATHERMAKERS—Carrier Corp
WEATHERMASTER—Kol-Master Corp

WEATHERPAD—Ruberoid Co
WEATHERPROOF—Weatherproof Products Corp
WEATHER-SHIELD—Certain-foed Products Co
WEATHERTITE—Johns-Manville Corp
WEATHERTITE—Pecora Paint Co Inc
WEATHERWOOD—U S Gypsum Co
WEDGE-EDGE—U S Plywood Corp
WEDGELOCK—Barrett Div Allied Chemical & Dye Corp
WEDGE-LOCK—Berger Div Republic Steel Corp
WEDGE-TIGHT—Calder Mfg Co
WEDGLOK—U S Plywood Corp
WEED-NO-MORE—Sherwin-Williams Co
WEIR—Meyer Furnace Co
WEIR-MEYER HEAT—Meyer Furnace Co
WELDBORD—U S Plywood Corp
WELD-O-TROL—Westinghouse Electric Corp
WELDTEX—U S Plywood Corp
WELDWOOD—Atlas Plywood Corp
WELWOOD—U S Plywood Corp
WESLOCK—Westwood Mfg Co
WESTAIR—Western Appliance Co Inc
WESTAPE—Wesco Waterpaints Inc
WESTBOARD—Washington Veneer Co
WESTMORELAND—American Radiator & Standard Sanitary Corp
WEVECOTE—Insulite Div Minnesota & Ontario Paper Co
WEVELITE—Insulite Div Minnesota & Ontario Paper Co
WEYERHAEUSER 4-SQUARE—Weyerhaeuser Sales Co
WHALE—Samson Cordage Works

WHIRLWIND—Black & Decker Mfg Co
WHIRLWIND-EDGERS—Holt Mfg Co
WHITE CHIEF—Carlson & Sullivan Inc
WHITE ROCK—Celotex Corp
WHITESTONE—American Asphalt Roof Corp
WHITE-TAPE—Evans & Co
WHITNEY—Whitney (Baxter D) & Son Inc
WIGWAM—Ruberoid Co
WILD ROSE—Coffman (R G) Co Inc
WILLIAMSON—Williamson Heater Co
WINDMASTER—Carey (Phillip) Mfg Co
WINDO TITE—Ludman Corp
WINDOWWALLS—Andersen Corp
WINDSOR—U S Gypsum Co
WINSLOW—Warren-Knight Co
WINTERGLO—American Radiator & Standard Sanitary Corp
WINTER WAY—American Radiator & Standard Sanitary Corp
WINTHROP—Flintkote Co
WINTITE—American Cabinet Hardware Corp
WISSCO—Wickwire Spencer Steel Div Colorado Fuel & Iron Corp
WIZARD—Lufkin Rule Co
WONDER—Construction Machinery Sales Co
WOODCRAFT—Sherwin-Williams Co
WOODGRAIN—Flintkote Co
WOODTEX—Certain-foed Products Corp
WOOLTEX—Huntington Industries Inc
WOODVILLE—Ohio Hydrate & Supply Co
WRIGO—Warren-Knight Co
WRIGHTEX—Wright Mfg Co

WRIGHTFLOW—Wright Mfg Co
WRIGHTWAY—Wright Mfg Co
WROUGHT BRASS OR BRONZE—American Cabinet Hardware Corp
W-SHEETS—Wheeling Corrugating Co
WYANDOTTE—American Radiator & Sanitary Corp
WYR-WAY—Knapp Brothers Mfg Co
WYTEFACE—Keuffel & Esser Co

X

XDUCT JR—National Electric Products Corp
XTRASTRONG—Samson Cordage Works

Y

YALE—Yale & Towne Mfg Co
YELLOW-END—St Paul Corrugating Co
YOUNGSTOWN—Mullins Mfg Corp

Z

ZEEN-X—U S Gypsum Co
ZEPHAIR—Hunter Fan & Ventilating Co
ZEPHR—Flat Metal Mfg Co
ZEPHYRS—Cres-Dipt Co Inc
ZIG-ZAG—Stanley Werks
ZILO—Sherwin-Williams Co
ZINC-ALLOY—Inland Steel Products Co
ZIP-IN—Cincinnati Fly Screen Div Russell (F G) Co
ZONATILE—Zonolite Co
ZOURITE—Kawneer Co

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SECTION III

Names and Addresses Manufacturers and Associations*

P RINCIPAL MANUFACTURERS of building products and equipment are listed in this section in alphabetical order. In some instances, the manufacturing organization is listed under the name of a division rather than under the parent company; popular usage served as a guide in these cases. For example, the manufacturer of Chevrolet Trucks is listed as—Chevrolet Motors Div., General Motors Corp., rather than as—General Motors Corp., Chevrolet Motor Div.

In other cases such as those involving departments of companies, the more popular major name is used as the key to the index. For example, the garage hardware department of the Stanley Works is indexed as follows—

Stanley Works, Garage Hardware Dept.

Care has been taken to make this index as accurate as possible, but the American Builder is not responsible for changes in addresses and other discrepancies.

A

Acme Appliance Mfg Co 35 So Raymond Ave
Pasadena Calif
Adams & Westlake Co Safford St Elkhart
Ind
Adams Rite Mfg Co 540 West Chevy Chase
Dr Glendale 1 Calif
Aetna Steel Prods Corp 730 Fifth Ave New
York 19 N Y
Air Control Products Inc Glade St at Larch
Coopersville Mich
Air Rectifiers Inc 3734 N Southport Ave
Chicago 13 Ill
Airtemp Div Chrysler Corp 1610 Webster St
Dayton 1 O
Alcasco Products Inc 1780 Creston St
Muskegon Mich
Aldrich Co Wyoming Ill
Allianceware Inc Alliance O
Allied Building Credits Inc 3109 Wilshire
Blvd Los Angeles 5 Calif
Allis-Chalmers Mfg Co 1126 S 70th St Mil-
waukee 1 Wis
Alliith-Prouty Inc 819 N Bowman Ave Danville
Ill
Allmetal Weatherstrip Co 2241 N Knox Ave
Chicago 39 Ill
Alsynite Co of America 4654 De Soto San
Diego 9 Calif
Automatic Corp of America 2081 S 56th St
Milwaukee Wis
Aluminum Window Manufacturers Association
74 Trinity Place New York 6 N Y
Amerco Plastics 177 Broadway New York 7
N Y
American Asphalt Roof Corp 7600 Truman
Rd Kansas City 3 Mo
American Cabinet Hardware Co 416 S Main
St Rockford Ill
American Cement Products 15496 Livernois
Detroit Mich
American Floor Surfacing Machine Co 515 S
St Clair St Toledo 3 O
American Hardware Corp Corbin (P & F) Div
102 Washington New Britain Conn
American Hardware Corp Russell & Erwin
Div 102 Washington New Britain Conn
American Kitchens Div Avco Mfg Corp Steub
St Connersville Ind
American Machine and Foundry Co 511 Fifth
Ave New York N Y
American Radiator & Standard Sanitary Corp
P O Box 1226 Pittsburgh 30 Pa
American Roof Truss Co 1030 E 87th St Chi-
cago Ill
American Shower Door Co Inc 1028 N La
Brea Ave Los Angeles 38 Calif
American Sta-Dri Co 4019 38th St Brentwood
Md
American Stained Shingle Co Spruce & Den-
nison Aves Columbus 8 O
American Steel & Wire Co 1420 Rocketteller
Bldg Cleveland 13 O
American Telephone & Telegraph Co 195
Broadway New York 7 N Y
American Welding & Mfg Co 190 Dietz Rd
Warren O
American Zinc Institute Inc 60 E 42nd St New
York City 17 N Y
Andersen Corp Bayport Minn

* Advertisers only

Angel Novelty Co 340 Broad St Fitchburg
Mass
Apex Electrical Mfg Co 1020 E 162nd St
Cleveland 10 O
A-1 Plastic Molders Inc 1415 Diversoy Pkwy
Chicago Ill
Arberite Co Ltd 385 Lafleur Montreal Que
Can
Arkansas Soft Pine Bureau Boyle Bldg Little
Rock Ark
Armstrong Cork Co 1010 Concord St Lan-
caster Pa
Arps Corp New Holstein Wis
Arrow Fastener Co 1 Junius Brooklyn 12 N Y
Aircraft Ornamental Iron Co 724 E Hudson
St Columbus 11 O
Ashstone Corp 5380 Tchoupitoulas St New
Orleans 15 La
Associated Plywood Mills Eugene Ore
Atlas Plywood Corp Statler Bldg Boston Mass
Atlas Press Co 1973 N Pitcher St Kalamazoo
Mich
Auth Electric Co Inc 34-20 45th St Long
Island City 1 N Y

B

Barber-Colman Co 104 Mill St Rockford Ill
Barco Mfg Co Barrington Ill
Barrett Div Allied Chemical & Dye Corp 40
Rector St New York 6 N Y
Behr-Manning Corp Div Norton Co 933 Sid-
ford St Troy N Y
Bell & Gossett Co 8200 Austin Morton Grove
Ill
Belsaw Machinery Co 315 Westport Rd Kan-
sas City 2 Mo
Belson Mfg Co 111 Franklin St Aurora Ill
Bendix Mfg Co 192 Lexington Ave New York
16 N Y
Bennett-Ireland Inc 1151 Market St Norwich
N Y
Berger Mfg Div Republic Steel Corp 1038
Bolden Ave N E Canton 5 O
Berns Mfg Co 3050 N Rockwell St Chicago 18
Ill
Besser Mfg Co Elm St Alpena Mich
Bessler Disappearing Stairway Co 1900 E
Market St Akron 5 O
Belter Homes & Gardens 1714 Locust St Des
Moines 3 Iowa
Bianco Mfg Co 2736 Victor St St Louis Mo
Biersach & Niedermeyer Co 1937 N Hubbard
Milwaukee Wis
Biglin (H C) Co Inc 177 Harris St N W PO
Box 1517 Atlanta Ga
Bileo Co 164 Hallock Ave New Haven 6 Conn
Bil-Jax Co 100 Wyse Rd Archbold O
Binswanger & Co 207 N Main St Houston 1
Texas
Bird & Son Inc 47 Wilson St East Walpole
Mass
Black & Decker Mfg Co 600 E Pennsylvania
Ave Towson 4 Md
Boice Crane Co 930 W Central Ave Toledo
5 O
Bostitch Inc 1101 Mechanic St Westerly R I
Bostrom Brady Mfg Co 537 Stonewall St S
W Atlanta Ga
Bostwick Steel Lath Co 101 Heaton Ave
Niles O
Bradford Machine Tool Co 657-671 Evans St
Cincinnati 4 O

Bradley Lumber Co of Ark Warren Ark
Brammer Mfg Co Davenport Ia
Briar Hill Stone Co Glenmont O
Briggs Mfg Co 3001 Miller Ave Detroit 11
Mich
Brown Co 150 Causeway St Boston 14 Mass
Brown (George C) & Co Inc Greensboro N C
Brown-Graves Co 191 E Miller Ave Akron 1 O
Bruce (E L) Co 1648 Thomas Ave Memphis
1 Tenn
Bryant Heater Div Affiliated Gas Equipment
Inc 17825 St Clair St Cleveland 10 O
B & T Metals Co 425 W Town Columbus 16 O
Buckeye Screen & Weatherstrip Co 1378 S
22nd St Columbus 6 O
Bucyrus-Erie Co 1046 Monroe Ave Milwaukee
Wis
Builders Mfg Co 1514 Brown-Marx Bldg
Birmingham Ala
Bulldog Electric Products Co 7610 Joseph
Campau Box 177 Detroit 32 Mich
Bundy Tubing Co 8109 E Jefferson St Detroit
Mich
Burnham Corp Boiler Div Balter St Irvington-
on-Hudson N Y
Bush Mfg Co 179 South St West Hartford 10
Conn
Butler (B B) Mfg Co Inc 3150 Randolph
Bellwood Ill

C

Cabot (Samuel) Inc 141 Milk St Boston 9
Mass
Calbar Paint & Varnish Co 2612-26 N Martha
St Philadelphia 25 Pa
Caldor Mfg Co 630 N Prince St Lancaster 3
Pa
California Redwood Association 576 Sacra-
mento St San Francisco 11 Calif
Capitol Kitchens Div Hubeny Bros Inc 615 E
First Ave Roselle N J
Carey (Philip) Mfg Co 316 S Wayne Lockland
Cincinnati 15 O
Carlson & Sullivan Inc 1617 S California Ave
Monrovia Calif
Carr Adams & Collier Co Dubuque Ia
Carrier Corp 302 S Geddes St Syracuse 1 N Y
Carter Engineering Co Warrenton Va
Carter-Waters Corp 2440 Pennway Kansas
City 8 Mo
Case (W A) & Son Mfg Co 33 Main St Buf-
falo 3 N Y
Ceco Steel Products Corp 5601 W 26th St
Chicago 50 Ill
Cedar Rapids Block Co Dur-O-Wal Div 656
Twelfth Ave S W Cedar Rapids Ia
Celotex Corp 120 S LaSalle St Chicago 3 Ill
Central Metal Strip Co 4343 N Western Ave
Chicago 18 Ill
Certain-lead Products Corp 120 E Lancaster
Ave Ardmore Pa
Chase Brass & Copper Co 236 Grand St
Waterbury 91 Conn
Chattanooga Implement & Mfg Co Chatta-
nooga Tenn
Chevrolet Div General Motors Corp General
Motors Bldg Detroit 2 Mich
Chicago Tribune 1333 Tribune Tower Chicago
Ill
Cincinnati Iron Fence Co Inc 2101 Florence
Cincinnati 6 O

Circulators & Devices Mfg Co 128-160 32 St Brooklyn 32 N Y
Clipper Mfg Co 2800 Warwick Kansas City Mo
Coffman (R G) Co Inc 2809 N Orange Ave Orlando Fla
Coleman Co Inc Second & St Francis St Wichita 1 Kan
Colonial Cedar Co 600 W Nickerson St Seattle 99 Wash
Colorado Fuel & Iron Corp Continental Oil Bldg Denver 2 Colo
Condensation Engineering Corp 3511 W Potomac Ave Chicago 51 Ill
Connor Lumber & Land Co Box 112 Marshfield Wis
Construction Machinery Sales Co 420 Vinton St Waterloo Ia
Cook (Loren) Co 664 Front St Berea O
Copco Steel & Engineering Co 14035 Grand River Ave Detroit 27 Mich
Corbin (P & F) Div American Hardware Corp 6T Park Ave New Britain Conn
Craig Wood Products Co Brennan Rd Columbus Ga
Crane Co 836 S Michigan Ave Chicago 5 Ill
Crawford Door Co 401 St Jean Ave Detroit 14 Mich
Cree-Dipt Co Inc 986 Oliver St N Tonawanda N Y
Crosley Div Avco Mfg Corp 1329 Arlington St Cincinnati O
Crossett Lumber Co Crossett Ark
Cummins Portable Tools Div Cummins-Chicago Corp 4740 N Ravenswood Ave Chicago 40 Ill
Cuprinol Div Darworth Inc 2 Maple St Simsbury Conn
Curtis Companies Inc 1200 S Second Ave Clinton Ia

D

Dalton Mfg Co 20 S Central Ave St Louis 5 Mo
Damp-Vent Co 212 17th St Box 203 Bettendorf Ia
Daniels (C R) Inc 4900 Block Wetherodsville Rd Hillsdale Baltimore 16 Md
Dant & Russell Inc Portland Ore
Davies (J A) & Co 314 Straight S W Grand Rapids Mich
Dearborn Motors 2500 E Maple Rd Birmingham Mich
Debs Decorators Old Middleton Rd Madison 5 Wis
Decatur Pump Co 2750 Nelson Park Drive Decatur Ill
Delco Appliance Div General Motors Corp Lyell & Whitney Sts Rochester N Y
DeLuxe Metal Trim Co 3343 Franklin St Louis Mo
Denison Co 4856 S Western Ave Chicago Ill
Detroit Steel Products Co 2250 E Grand Blvd Detroit 11 Mich
DeWalt Inc P O Box 540 Lancaster Pa
Dexter Lock Co Grand Rapids Mich
Dodge Bros Div Chrysler Corp 1900 Joseph Campau Ave Detroit Mich
Dodge (F W) Corp 119 W 40th St New York 18 N Y
Douglas Fir Plywood Association Tacoma Bldg Tacoma 2 Wash
Dremel Mfg Co 2409 18th St Racine Wis
Dunham (C A) Co 400 W Madison St Chicago 6 Ill
Dunkirk Radiator Corp 85 Middle Rd Dunkirk N Y
Dura-Bilt Tool Co Natick Mass

E

Eagle Lock Co 20 S Main St Terryville Conn
Earle Hardware Mfg Co Noble & Gregg Sts Reading Pa
Electromode Corp 45 Crouch St Rochester 3 N Y
Eljer Co Ford City Pa
Elkay Mfg Co 1874 So 54th Ave Chicago 50 Ill
Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo
Empire Stove Co Belleville Ill
Etling Window 24 Huston St Barborton O
Evans & Co 400-416 Trumbull St Elizabeth N J
Eveready Briksaw Co 1509 S Michigan Blvd Chicago 5 Ill

Ex-Way Sales Inc Div of Minnesota Wood Specialties Inc Box 300 Dept A St Paul Park Minn

F

Factory Built Homes Inc McDonough N Y
Fageel Heat Machine Co 5725 Mt Elliott Ave Detroit 11 Mich
Fair (D L) Lumber Co Louisville Miss
Fasco Industries Inc 255 N Union St Rochester 2 N Y
Fastener Corp 860 Fletcher St Chicago 14 Ill
Fawcote Mfg Div Falls Stamping & Welding Co 1703 Front St Cuyahoga Falls O
Feddars Quigan Corp 70 Tonawanda St Buffalo 7 N Y
Fenestra Building Products 2250 E Grand Blvd Detroit 11 Mich
Fiat Metal Mfg Co 9301 W Belmont Ave Franklin Park Ill
Fir Deer Institute 1205 Rust Bldg Tacoma 2 Wash
Fleet of America Inc 110 Pearl St Buffalo 2 N Y
Flintkote Co 30 Rockefeller Plaza New York 20 N Y
Flint & Walling Mfg Co 95 Oak St Kendallville Ind
Flush Wall Radio Co 1012 Cleveland St Clearwater Fla
Flynn (Michael) Mfg Co 700 E Godfrey Ave Philadelphia 24 Pa
Foldaway Stairway Co Inc 813 Seaboard St Portsmouth Va
Foley Mfg Co 3300 N E Fifth St Minneapolis 18 Minn
Follansbee Steel Co Third & Liberty Sts Pittsburgh 30 Pa
Ford (Ivon R) Inc McDonough N Y
Ford Motor Co Dearborn Mich
Formica Co 4614 Spring Grove Ave Cincinnati 32 O
Forsberg Mfg Co 125 Seaview Ave Bridgeport 1 Conn
Frantz Mfg Co Sterling Ill

G

Garlinghouse (L F) Co Inc 820 Quincy St Topeka Kan
Gate City Sash & Door Co P O Box 901 Fort Lauderdale Fla
Gates & Son Inc 80 S Galapage Denver 9 Colo
GBH-Way Homes Inc Walnut Ill
General Air Conditioning Corp Cincinnati 9 O
General Bronze Corp Stewart Ave Garden City L I N Y
General Electric Co Chemical Div Pittsfield Mass
General Electric Co Construction Materials Dept 1285 Boston Ave Bridgeport 2 Conn
General Electric Co Home Bureau & Contract Sales Dept 310 W Liberty St Louisville 2 Ky
General Portland Cement Co 111 W Monroe St Rm 905 Chicago 3 Ill
General Products Co Fredericksburg Va
Georgia-Pacific Plywood Co 270 Park Ave New York 17 N Y
Gerrity-Michigan Corp 10 S Superior St Toledo 4 O
Getty (H S) & Co Inc 3348 N 10th St Philadelphia 40 Pa
Given Mfg Co 3301 Fruitland Ave Los Angeles 58 Calif
Glide Windows Inc 7463 Varna Ave N Hollywood Calif
Good Housekeeping 57th St at 8th Ave New York 19 N Y
Grand Haven Stamped Products Co Grand Haven Mich
Grant Pulley & Hardware Co 31-85 White-stone Parkway Flushing L I N Y
Great Lakes Carbon Corp Perlite Div 612 S Flower Los Angeles 17 Calif
Great Lakes Steel Corp 3750 Penobscot Bldg Detroit 26 Mich
Great Lakes Steel Corp Stran-Steel Div Penobscot Bldg Detroit 26 Mich
Gregg & Son 21-31 Blandin Ave Framingham Mass
Grillcraft Co 1067 St Clair Ave St Paul 5 Minn
Grote Mfg Co LaFayette & Grandview Sts Bellevue Ky
Gunnison Homes Corp U S Steel Corp Sub New Albany Ind

H

Hachmeister Inc 1300 Island Ave Pittsburgh Pa
Hager (C) & Sons Hinge Mfg Co 139 Victor St St Louis 4 Mo
Hall-Mack Co 1344 W Washington Blvd Los Angeles 7 Calif
Hansen (A L) Mfg Co 5037 N Ravenswood Ave Chicago 40 Ill
Harbor Plywood Corp Box 940 Aberdeen Wash
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis
Hart Products Div Stratton & Terstegge Co Box 311 New Albany Ind
Haskelite Mfg Corp 701 Ann St N W Grand Rapids 2 Mich
Hassall (John) Inc Clay & Oakland Sts Brooklyn 22 N Y
Heatilator Inc 661 E Brighton Ave Syracuse 5 N Y
Heinemann (F) Saw & Mfg Co Canton 6 O
Herman Nelson Second & Central Ave Louisville Ky
Hess Co 1855 S 54th Ave Chicago 50 Ill
Heston & Anderson Div St Paul Foundry & Mfg Co 601 Kirkwood Ave Fairfield Ia
Higgins Inc Industrial Canal New Orleans La
Holt Mfg Co 651-681 Twentieth St Oakland 12 Calif
Holt Mfg Co 272 Badger Ave Newark 8 N J
Homasote Co 1935 Harvey Rd Trenton 3 N J
Homelite Corp 67 Riverdale Ave Port Chester N Y
Home of the Week Plan Service 89 Elmgrove Ave Providence 6 R I
Hope's Windows Inc 84 Hopkins Ave Jamestown N Y
Hotpoint Inc 5600 W Taylor St Chicago 44 Ill
Hough Shade Corp 1203 S Jackson St Janesville Wis
House Beautiful 572 Madison Ave New York 22 N Y
Howell Mfg Co Cottman St & Hasbrook Ave Philadelphia 11 Pa
Hubeny Brothers Inc Roselle N J
Hunter Douglas Corp 150 Broadway New York 39 N Y
Hunter Fan & Ventilating Co 381 S Front St Memphis 2 Tenn
Huntington Industries Inc 2368 Prospect Memphis Tenn

I

Independent Lock Co 1950 Cleghorn St Fitchburg Mass
Independent Nail & Packing Co Stone St Bridgewater Mass
Independent Pneumatic Tool Co State & Claim Sts Aurora Ill
Industrial Machine Tool Co Inc 301 S Oak St Fenton Mich
Infra Insulation Inc 525 Broadway New York N Y
Inland Steel Products Co 4111 W Burnham Milwaukee Wis
In-Sink-Erator Co 1201 14th St Racine Wis
Insulite Co Div Minnesota & Ontario Paper Co 500 Baker Arcade Bldg Minneapolis 2 Minn
International Cut Stone Contractor's & Quarryman's Association Indianapolis Ind
International Homes Inc Mineral Ridge O

J

Jaeger Machine Co 500 W Spring St Columbus 16 O
JMJ Industries Inc 226 Centerville Ave Belleville Ill
Johns-Manville Corp 22 E 40th St New York 16 N Y
Johnson (S T) Co 940 Arlington Ave Oakland 8 Calif
Jones & Brown Inc 439 Sixth Ave Pittsburgh 19 Pa
Jones & Laughlin Steel Corp 401 Liberty Ave Pittsburgh 30 Pa
Junior-Pro Products Co 3206 Morganford Rd St Louis 16 Mo

K

Kaiser Aluminum & Chemical Sales Inc 1924 Broadway Oakland 12 Calif
Kaustine Co Inc Perry N Y

Kawnaer Co 714 N Front St Niles Mich
Kay-Tite Co 46 Lexington Dr Livingston N J
K-D Garage Door Sales 19830 Fitzpatrick De-
troit 28 Mich
Keasbey & Mattison Co 1944 Mitchell St
Ambler Pa
Kelvinator Div Nash-Kelvinator Co 14250
Plymouth Rd Detroit 32 Mich
Kenitex Corp 854 S Robertson Blvd Los
Angeles 35 Calif
Kennatrack Corp Rt 5 E Jackson Blvd Elk-
hart Ind
Kentile Inc 58 Second Ave Brooklyn N Y
Kuffel & Esser Co 300 Adams St Hoboken
N J
Kewanee Mfg Co 150 Burlington Ave Ke-
wanee Ill
Keystone Steel & Wire Co 7000 S Adams
Peoria 7 Ill
Keystone Wire Cloth Co Hanover Pa
Kimball Mfg Co 1629 Sycamore Royal Oak
Mich
Kimble Glass Co P O Box 1035 Toledo 1 O
Kirlin Co 3435 E Jefferson Ave Detroit Mich
Kitchen Maid Corp Andrews Ind
Knights (James) Co Wells & Church Sts
Sandwich Ill
Kohler Co 44 High St Kohler Wis
Koven (L O) & Bro Inc Dept AB 154 Ogden
Ave Jersey City 7 N J
Kwikset Sales & Service Co 516 E Santa Ana
Ave Anaheim Calif

L

Laboratory Equipment Corp Hilltop Rd St
Joseph Mich
Laclede Steel Co Arcade Bldg St Louis Mo
LaSalle Products Inc 151 Seneca St Buffalo
3 N Y
Lau Blower Co 2001 Home Ave Dayton 7 O
Lawson (F H) Co Evans & Whately Sts
Cincinnati 4 O
Leslie Welding Co 2937 W Carroll Ave Chi-
cago Ill
Levelall 83 Webster St Rockland Mass
Libbey-Owens-Ford Glass Co Nicholas Bldg
12th Fl Toledo 3 O
Linsseed Oil Products 355 H Del Monte St
Pasadena Calif
Lithbar Co 54 W 8th St Holland Mich
Lockwood Hardware Mfg Co 1950 Cleghorn
St Fitchburg Mass
Lone Star Cement Corp 342 Madison Ave
New York 17 N Y
Long-Bell Lumber Co R A Long Bldg Kansas
City 6 Mo
Louisville Cement Co 315 Guthrie St Louisville
2 Ky
Lucke (William B) Co 514 Railroad Ave Wil-
mette Ill
Ludman Corp 14100 Biscayne Blvd Miami Fla
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Lumite Div Chicopee Mills Inc 47 Worth St
New York 13 N Y

M

Macklanburg-Duncan Co P O Box 1197 Okla-
homa City 1 Okla
Majestic Co Brown St Huntington Ind
Malibu Mfg Corp 521 N LaCienega Blvd Los
Angeles 48 Calif
Mail Tool Co 7740 South Chicago Ave Chi-
cago 19 Ill
Malta Mfg Co Malta O
Maple Flooring Manufacturers' Association 35
E Wacker Drive Chicago 1 Ill
Markel Electric Products Inc 129-149 Seneca
St Buffalo 3 N Y
Marmet Corp P O Box 208 Wausau Wis
Marquette Cement Mfg Co 20 N Wacker Dr
Chicago Ill
Marsh Wall Products Inc 268 Main St Dover
O
Masonite Corp 111 W Washington St Chicago
2 Ill
Master Metal Strip Serv Inc 1720 N Kilbourn
Ave Chicago 39 Ill
Master Rule Mfg Co Inc 201 Main St White
Plains N Y
Mastic Tile Corp of America N Montgomery
Newburgh N Y
McMahan Bros 2220 S Hoover St Los Angeles
7 Calif
Medusa Portland Cement Co 1000 Midland
Bldg Cleveland 15 O

Mengel Co 1122 Dumasnil St Louisville 1 Ky
Mercoind Corp 4201 W Belmont Ave Chicago
Ill
Meredith Publishing Corp 1716 Locust St Des
Moines 3 Ia
Mesker (George L) Steel Corp 1940 Stumpf
St Evansville Ind
Metal Arts Mfg Co P O Box 4144 Harwell &
Oakcliff Rds S W Atlanta Ga
Metabestos Div Wallace (William) Co Bel-
mont Calif
Metal Crafters E Ave at 18th St N E Cedar
Rapids Ia
Metal Products Corp 807 N W 20th St Miami
37 Fla
Meyer Furnace Co 1300 S Washington Peoria
Ill
Miami Window Corp 5200 N W 37th Ave
Miami Fla
Milwaukee Elec Tool Corp 5316 W State St
Milwaukee 8 Wis
Milwaukee Flush Valve Co 301 E Reservoir
Ave Milwaukee 12 Wis
Milwaukee Strip Service Inc 4621-23 W Lisbon
Ave Milwaukee 8 Wis
Minneapolis-Honeywell Regulator Co 2747 S
Fourth Ave Minneapolis 8 Minn
Miracle Adhesives Corp 214 E 53rd St New
York 22 N Y
Mississippi Glass Co 88 Angelica St St Louis
7 Mo
Modern Homes Corp 7742 Greenfield Dear-
born Mich
Modine Mfg Co 1300 DeKoven Ave Racine Wis
Monsanto Chemical Co 1700 S Second St St
Louis 4 Mo
Moore (Goodloe E) Co 2811 N Vermillion
Danville 2 Ill
Moorhead Brick & Tile Co St Joseph Mo
Morrison Steel Products Inc 601 Amherst St
Buffalo 7 N Y
Mortell (J W) Co 550 N Hobbie St Kankakee
Ill
Mosaic Tile Co 1949 Pershing Ave Zanes-
ville O
Mouille Inc N Montgomery St Newburgh N Y
Mueller (L J) Furnace Co 2005 W Oklahoma
St Milwaukee 15 Wis
Mulkey (Sam) Co 1621 Locust Kansas City
8 Mo
Muller Machinery Co Inc 248 Whitman Ave
Metuchen N J
Mullins Mfg Corp Warren O
Murphy Door Bed Co 19 W 44th St New York
36 N Y
Murray Company of Texas Dallas Tex
Murray Corporation of America 7700 Russell
Detroit 11 Mich

N

National Brass Co 1609 Madison Ave S E
Grand Rapids 2 Mich
National Clay Pipe Mfrs Inc 100 N LaSalle
St Chicago 2 Ill
National Co Inc 61 Sherman St Malden Mass
National Electrical Mfrs Assn 155 E 44th St
New York City N Y
National Electrical Products Corp PO Box 897
Pittsburgh 30 Pa
National Gypsum Co 325 Delaware Ave Buf-
falo 2 N Y
National Homes Corp Bypass Rd Lafayette
Ind
National Lock Co 1902 7th St Rockford Ill
National Log Structures Stayton Ore
National Mfg Co Sterling Ill
National Oak Flooring Mfrs Assn 814 Sterick
Bldg Memphis Tenn
National Plastic Products Co Odenton Md
National Steel Cabinet Co 2415 N Pulaski Rd
Chicago 39 Ill
National System Garage Ventilation 330 N
Church St Decatur Ill
New Castle Products Co New Castle Ind
New Monarch Machine & Stamping Co 406
S W Ninth St Des Moines 9 Ia
New York Wire Cloth Co New Canaan Conn
Nichols Wire & Aluminum Co 1729 Rocking-
ham Rd Davenport Ia
Nixalite Co of America 115 W 3rd St Daven-
port Ia
Nordahl Co 180 W Alameda Ave Burbank
Calif
Norge Cottages Inc 21 West St New York 6
N Y

Norge Heat Div Borg-Warner Corp 346 E
South St Kalamazoo Mich
Norman Products Co 1150 Chesapeake Col-
umbus 12 O
Norton Co 1 New Bond St Worcester 6 Mass
Nova Sales Inc Trenton 3 N J
NuTone Inc Red Bank & Madison Rds Cin-
cinnati 27 O
Nu-Wall Mfg Co 923 N 19th St Milwaukee 3
Wis

O

Ohio Foundry & Mfg Co Steubenville O
Ohio Hydrate & Supply Co Woodville O
Ohio Plate Glass Co Box 496 Toledo 4 O
Oliver Corp Cetrac Div 400 W Madison St
Chicago Ill
One-Der Frame Corp 2109 Third Ave N Birm-
ingham 3 Ala
Ornas & La Barra Detroit Mich
Overhead Door Corp P R R & Kickapoo St
Hartford City Ind
Owens-Corning Fiberglas Corp Nicholas Bldg
Toledo O
Owens-Illinois Glass Co Kaylo Div Box 1035
Toledo 1 O

P

Pacific Lumber Co 35 E Wacker Dr Chicago
1 Ill
Paine Co 2951 Carroll Ave Chicago 12 Ill
Paine Lumber Co Ltd 73 W Algona Oshkosh
Wis
Parkay Inc 5000 Crittenden Dr Louisville 9
Ky
Parks Woodworking Machine Co 1524 Knowl-
ton St Cincinnati 23 O
Patent Scaffolding Co Inc 33-21 12th St Long
Island City 1 N Y
Pearson (O) Mfg Co PO Box 255 Lake Villa
Ill
Pecora Paint Co Inc 4th St & Rdg R R
Philadelphia 40 Pa
Penn Metal Co Inc 140 Central St Boston 9
Mass
Per-Fit Products Corp 1200 E 52nd St In-
dianapolis 20 Ind
Perma Products Co 5455 Broadway Cleveland
4 O
Peterson Products Co 1013-17 N Bluff St
Janesville Wis
Peterson Window Co 1341 E 8-Mile Rd Fern-
dale 20 Mich
Pittsburgh Corning Corp 307 4th Ave Pitts-
burgh 22 Pa
Pittsburgh Plate Glass Co Grant Bldg Pitts-
burgh 19 Pa
Place Homes Inc 1212 S Walnut St South
Bend Ind
Plaskon Div Libbey-Owens-Ford Glass Co
Nicholas Bldg Toledo 6 O
Ponderosa Pine Woodwork 38 S Dearborn
Chicago 3 Ill
Pootatuck Corp 24-48 Main St Stratford Conn
Porter Cable Machine Co 1714 N Salina St
Syracuse 8 N Y
Portland Cement Assn 33 W Grand Ave
Chicago 10 Ill
Powder Power Tool Co Portland Ore
Precision Parts Corp 402 N First St Nash-
ville 7 Tenn
Prefabricated Home Mfrs Inst 908 20th St
N W Washington 6 D C
Prestite Mfg Co 5850 W Ogden Ave Chicago
50 Ill
Price Fireplace Heater & Tank Corp Five
Austin Place Buffalo 7 N Y
Prime Mover Co Muscatine Ia
Protection Products Mfg Co 2305 Superior St
Kalamazoo 99 Mich
Pro-Tect-U Jalousie Corp 4525 Ponce De
Leon Blvd Coral Gables Fla
Protectub Inc 71 Ludlow St New York N Y
Pryne & Co Inc N Towne & Railroad Ave
Pomona Calif

R

Ramset Fasteners Inc 12117 Berea Rd Cleve-
land 11 O
Raynor Mfg Co E River Rd Dixon Ill
R C A Rubber Co 1833 E Market St Akron
5 O
R C S Tool Sales Corp 200 Meem Ave Bx
1434 Joliet Ill
Readybuilt Products Co 1707 McHenry St
Baltimore 23 Md

Ready Hung Door Corp Neil P Anderson Bldg
Fort Worth 2 Tex
Red Cedar Shingle Bureau 5508 White Bldg
Seattle 1 Wash
Red Devil Tools Coit St Irvington 11 N J
Reflectal Corp 155 E 44th St New York 17 N Y
Reinhold Publishing Corp 330 W 42nd St
New York 36 N Y
Remington Arms Co Inc Industrial Tool Div
936 Barunm Ave Bridgeport 2 Conn
Remington Rand Inc Systems Div 315 Fourth
Ave New York 10 N Y
Republic Steel Corp Republic Bldg Cleveland
1 O
Resolite Corp Zellenople Pa
Reynolds Metals Co Building Products Div
2001 S Ninth St Louisville 1 Ky
Rezner Mfg Co David St Mercer Pa
Rheem Mfg Co 570 Lexington Ave New York
22 N Y
Richards-Wilcox Co 174 Third St Aurora Ill
Richcraft Co 510 N Dearborn St Chicago
10 Ill
Richmond Builders Inc 425 N W K Street
Richmond Ind
Richmond Radiator Co 19 E 47th St New
York 17 N Y
Rilco Laminated Products Inc First National
Bank Bldg St Paul 1 Minn
Rittenhouse Co Inc Earl St Honeoye Falls N Y
Roberts Gordon Appliance Corp 44 Central
Ave Buffalo 6 N Y
Robot Appliances Inc 13171 Prospect Ave
Dearborn Mich
Rockaway Sales Co Rt 6 Rockaway 22 N J
Rockwell Mfg Co Delta Power Tool Div 400
N Lexington Ave Pittsburgh 8 Pa
Roddis Plywood Corp 1155 Palmetto Marsh-
field Wis
Roiscreen Co Palla Ia
Rowe Mfg Co Galesburg Ill
R O W Sales Co 1365 Academy Royal Oak
3 Mich
Ruberoid Co 500 Fifth Ave New York 36 N Y
Rudiger-Lang Co 8th & Carleton Sts Berkeley
10 Calif
Russel & Erwin Div American Hardware Corp
102 Washington New Britain Conn
Russell (F C) Co Union Commerce Bldg An-
nex Cleveland 1 O

S

Safway Steel Products Inc 6228 W State St
Milwaukee Wis
Sager-Barrows Div Yale & Towne Mfg Co
Berrien Springs Mich
St Paul Corrugating Co S End Wabasha St
Bridge St Paul 1 Minn
St Paul Foundry & Mfg Co Como Ave at
Ryan St St Paul 3 Minn
St Regis Paper Co 230 Park Ave New York
17 N Y
Samson Cordage Wks 89 Broad St Boston 10
Mass
San Angelo Plan PO Box 1470 San Angelo
Tex
Sargent & Co Water St New Haven 9 Conn
Scharf (J H) Mfg Co Omaha Nebr
Schlage Lock Co 2201 Bay Shore Blvd San
Francisco 19 Calif
Scott (O M) & Sons Co Marysville O
Sedgwick Machine Wks 150 W 15th St New
York N Y
Serval Inc 119 N Morton St Evansville 20 Ind
Sharp's Mfg Co Salam Ore
Shepler Mfg Co 1229 Goebel St Pittsburgh 33
Pa
Sherwin-Williams Co 101 Prospect Ave Cleve-
land 1 O
Shingistik 7600 Truman Rd Kansas City Mo
Simonds Saw & Steel Co 470 Main St Fitch-
burg Mass
Simplex Level Co 6826 E Warren Detroit 7
Mich
Sin-Jin Products Co 5236-40 Fairlawn Ave
Baltimore 15 Md
Sisalkraft Co 205 W Wacker Dr Chicago 6
Ill
Skil Corp 5033 Elston Ave Chicago 30 Ill
Slide-View Steel Door & Window Co 621 La
Cienega Blvd Los Angeles Calif
Smith (L C) & Corona Typewriters Inc 701 E
Washington St Syracuse 1 N Y
Solvay Process Div Allied Chemical & Dyo
Corp 40 Rector St New York 6 N Y

Sonoco Products Co South St Hartsville S C
Southern Pine Lumber Co Diboll Tex
Southern Screw Co 118 Rickert St Statesville
N C
Specialty Tool Mfrs Inc 732 S Illinois Belle-
ville Ill
Stained Shingle & Shake Association 5527
White Bldg Seattle Wash
Standard Building Products Co 621 McDonald
Ave Brooklyn 18 N Y
Standard Dry Wall Products Inc 77 Hudmet
St New Eagle Pa
Standard Steel Wks 16th & Howell N Kansas
City Mo
Stanley Electric Tool Div Stanley Wks New
Britain Conn
Stanley Tools Div Stanley Wks New Britain
Conn
Stanley Wks New Britain Conn
Steadfast Equipment Co 874 Franklin Ave
Thornwood N Y
Steelcraft Mfg Co 9017 Blue Ash Rd Ross-
moynoe O
Steel Door Corp 359 S Jessie St Pontiac Mich
Steel Scaffolding Co Inc 856 Humboldt St
Brooklyn 22 N Y
Sterling Hardware Mfg Co 2345 Nelson St
Chicago 18 Ill
Sterling Paint & Varnish Co 155 Commercial
St Malden Mass
Stewart Mfg Co 3209 E Washington St
Indianapolis Ind
Strand Garage Door Div Detroit Steel Pro-
ducts Co 3101 Griffin St Detroit 11 Mich
Stran-Seeh Div Great Lakes Steel Corp
Tecumseh & Ecorse Ecorse 29 Mich
Stratton & Terstogge Co Box 311 New Albany
Ind
Structural Clay Products Institute 1520 18th
St N W Washington 6 D C
Sturdee Metal Porch Co P O Box 671 Balti-
more 3 Md
Sun Sash Co 38 Park Row New York 7 N Y
Superior Fireplace Co 1708 E 15th St Los
Angeles 21 Calif
Sutton (O A) Corp 1812 W 2nd St Wichita
Kan
Swift Business Machines Corp Great Barrin-
gton Mass
Symons Clamp & Mfg Co 4249 Diversey Ave
Chicago 39 Ill
Syntron Co Black St Homer City Pa

T

Temco Inc 4104 Park Ave Nashville 9 Tenn
Tennessee Coal Iron & Railroad Co 20th St
at 1st Ave Birmingham Ala
Tennessee Fabricating Co 1490 Grimes St
Memphis Tenn
Texas Co 135 E 42nd St New York 17 N Y
Thomson Plywood Corp P O Box 352 Fay-
etteville N C
Thorn Co (J S) Co Allegheny Ave & Twentieth
St Philadelphia 32 Pa
Thrush (H A) & Co Peru Ind
Tile Council of America 10 E 40th St New
York N Y
Timber Engineering Co 1319 18th St N W
Washington 6 D C
Timber Structures Inc P O Box 3782 Portland
8 Ore
Timken Silent Automatic Div Timken-Detroit
Axle Co 100 Clark St Jackson 32 Mich
Toledo Desk & Fixture Co Maumee O
Tracy Mfg Co Div of Edgewater Steel Co P O
Box 1137 Pittsburgh Pa
Trade-Wind Motorfans Inc 5725 S Main St
Los Angeles 37 Calif
Trinity Portland Cement Div General Portland
Cement Co 111 W Monroe St Chicago Ill
Tri-Saw Corp 8611 Clayton Rd St Louis 17 Mo
Troyer Driveway Service 2157 South Park
Ave Buffalo 20 N Y
Truscon Steel Co Sub Republic Steel Corp
6100 Truscon Ave Youngstown 1 O
Turner & Seymour Mfg Co Lawton St Tor-
rington Conn
Tylac Co Menticello Ill
Typhoon Air Conditioning Co Inc 794 Union
St Brooklyn 15 N Y

U

U S Gypsum Co 300 W Adams St Chicago 6 Ill
U S Plywood Corp 55 W 44th St New York
18 N Y

U S Steel Co 525 William Penn Place Pitts-
burgh 30 Pa
United Steel Fabricators Inc 333 Gasche St
Wooster O
Universal Atlas Cement Co 100 Park Ave
New York 17 N Y
Universal-Rundle Corp Box 960 New Castle
Pa
Upson Co 43 Upson Pt Lockport N Y

V

Valley Plywood Co 72 W Broadway Eugene
Ore
Van-Packer Corp 209 S LaSalle St Chicago
4 Ill
Vento Steel Products Co Inc 250 Colorado
Ave Buffalo N Y
Vikon Tile Corp Washington N J
Virginia Metal Products Co 60 Hudson St
New York 13 N Y
Vulcan Radiator Co 26 Francis Ave Hartford
Conn

W

Wadsworth Homes Inc 6011 Johnson Dr
Mission Kan
Wagner Mfg Co Cedar Falls Ia
Warren-Knight Co 138 N 12th St Philadelphia
7 Pa
Washington Steel Products Inc 1940 E 11th
St Tacoma 2 Wash
Waterfilm Boilers Inc 154 Ogden Ave Jersey
City N J
Weatherproof Products Corp Waldo Sta P O
Box 8498 Kansas City 5 Mo
Weather-Seal Inc 24 W Huron St Barberton O
Weatherstrip Research Institute 259 Addison
Rd Box 101 Riverside Ill
Wei-Bilt Products Co Box 95 Memphis 1 Tenn
Wesix Electric Heater Co 390 First St San
Francisco 5 Calif
West Coast Mills Chehalis Wash
Western Metal Specialty Co 1211 N 62nd St
Milwaukee 13 Wis
Western Pine Association Yeon Bldg Portland
Ore
Western Reserve Mfg Co 3708 E 93rd St
Cleveland 5 O
Westinghouse Electric Corp 401 Liberty Ave
P O Box 2278 Pittsburgh 30 Pa
Westinghouse Electric Corp Appliance Div
Mansfield O
Westinghouse Electric Corp Electric Appli-
ance Div 653 Page Blvd Springfield 2 Mass
Westinghouse Electric Corp Lamp Div Bloom-
field N J
Westwood Mfg Co P O Box 2261 Terminal
Annex Los Angeles 54 Calif
Weyerhaeuser Sales Co First National Bank
Bldg St Paul 1 Minn
White (David) Co 319 W Court St Milwaukee
12 Wis
Whitney (Baxter D) & Son Inc Wmchendon
Mass
Wickwire Spencer Steel Div Colorado Fuel &
Iron Corp 575 Madison Ave New York 19
N Y
Wiggin's (H B) Sons Co 56 Arch St Bloom-
field N J
Wiley (John) & Sons Inc 440 Fourth Ave
New York 16 N Y
Williamson Heater Co 3500 Madison Rd Cin-
cinnati 9 O
Wiremold Co Station A Hartford 10 Conn
Woodal Industries Inc 7571 E McNichols Rd
Detroit 34 Mich
Wood Conversion Co First National Bank
Bldg St Paul 1 Minn
Worthington Corp Construction Equipment
Sales Div Plainfield N J
Wright Mfg Co Wright Rubber Products Div
P O Box 6567 Houston 6 Tex

Y

Yale & Towne Mfg Co Philadelphia Div 11000
Roosevelt Blvd Philadelphia 15 Pa
Yale & Towne Mfg Co Stamford Conn
York-Shipley Inc P O Box 349 York Pa
Young Radiator Co 709 S Marquette St
Racine Wis

Z

Zegers Inc 8090 South Chicago Ave Chicago
17 Ill
Zonolite Co Field Bldg 135 S LaSalle St
Chicago 3 Ill

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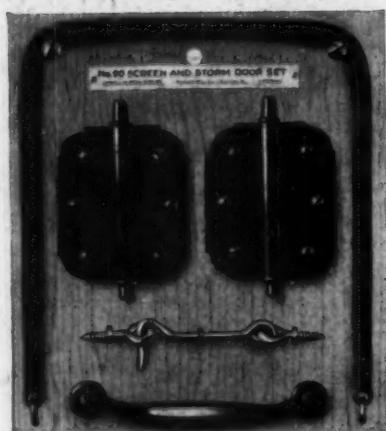


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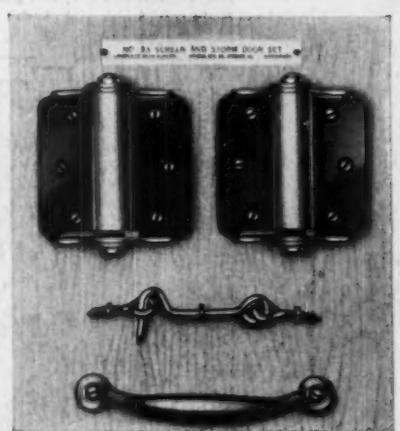
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