Few ideas in the history of building and decorating have so quickly captured the hearts of homemakers as the Formica Vanitory.* Here is a basic idea conceived in the belief that every home needs beautiful, durable, usable space around the lavatory.

The practical use of colorful Formica in an endless number of Vanitory variations places no limit on design imagination.

Hundreds of skilled specialists in the fabrication of Formica are ready the country over to build to your specifications a single unit or dozens of Formica Vanitories. Look under "Plastics" in your classified phone book. If you fail to find a Formica Fabricator listed, write us for recommendation.

You will want a copy of the colorful idea folder titled, "What's New in the Bathroom." It's yours for the asking. Write Formica, 4514 Spring Grove Ave., Cincinnati 32, Ohio.

*Trade Mark

---

**4 REASONS WHY FORMICA IS YOUR BEST BUY!**

- Only genuine Beauty Bonded Formica has:
  - Newest and largest selection of...
  - Clear, clean, unclouding color patterns with...
  - Super-smooth blemish-free cabinet maker's finish from...
  - Thirty-seven years continuous production experience.

"JUST AS GOOD" IS A FABLE. LOOK FOR THE LABEL. INSIST ON GENUINE BEAUTY BONDED FORMICA.

Illustrated Vanitory Fabricated by Beautility Corporation, Chicago, Ill.
Look How These Doors Save You Money!

You save money with these beautiful standardized Fenestra® Doors because they cost less to buy than most doors, less to install, less to keep working and looking like new.

Here's Why:

1. Fenestra's great manufacturing facilities, engineered for volume production and elimination of waste of materials and man-hours, can turn out more high-quality door units... in less time... at lower cost.

2. Fenestra Hollow Metal Doors come complete with strong steel frames and shining hardware. Installer just bolts the frame together, attaches it to floor and anchors it to wall, screws on template locks and hinges, hangs the door. No cutting or fitting or mortising or putting or prime-painting. That's real on-the-site timesaving!

3. Fenestra Hollow Metal Doors won't sag, warp, swell, shrink or splinter. They can take a beating and come up smiling. An occasional coat of paint makes them look like new. They're insulated, too, for quiet performance.

These Fenestra Hollow Metal Doors are in local stocks. Compare the performance, the quality, the cost with any door on the market. They're another Fenestra Building Product engineered to cut the cost of building.

Doors with Underwriters' B Label are also available. Just call your Fenestra Representative (he's listed in your phone book). Or write Detroit Steel Products Company, Dept. AB-4, 2260 E. Grand Boulevard, Detroit 11, Michigan.
Mr. Carpenter: Follow the Advice of Leading Lumber Dealers

How long since you looked at the ceilings in your own home? Chances are you too have a cracked ceiling that needs attention.

Do this. Prove to yourself once and for all that there is no material like Upson Kuver-Krak Panels for re-covering cracked ceilings. Apply an Upson Ceiling in your own home.

See how quickly . . . how easily the job is done. No muss, fuss, confusion or irritating delays. No seeping, floating white dust to cause an extra housecleaning. Then note the beautiful result and remember this ceiling will give you a lifetime of satisfaction. You'll want to do more jobs the same way.

See your lumber dealer or send the coupon right away.

---

**USE UPSON KUVER-KRACK PANELS**

says Fred Ludwig, President, Merritt Lumber Yards, Inc., Reading, Pa., one of America's prominent dealers.

"Having great faith in Upson Panels, developed through the many years we've handled them, prompted me to use them in my own residence for re-covering cracked plaster.

"I am glad to report these panels have been most satisfactory and have done everything we expected them to do."

**USE UPSON KUVER-KRACK PANELS**

says G. E. Carter, well known lumber dealer of Port Arthur, Texas.

"Several years ago, I applied Upson Panels to the ceilings of my home. Today, they look just as good as when they were first applied. I don't think they will ever need repairing beyond an occasional coat of paint."

---

One of the scores of thousands of Upson Ceilings now beautifying the homes of satisfied homeowners.

---

**THE UPSON COMPANY**

614 Upson Point, Lockport, New York

☐ Send me Instruction Sheets for applying Kuver-Krak Panels.
☐ Have your Representative call to give me more information on the cracked ceiling market.

NAME

NAME OF FIRM

STREET ADDRESS

CITY STATE

AMERICAN BUILDER
In your May issue you will read how other builders utilize power tools and equipment to speed their building operations. These on-the-job stories are packed full of information; just one idea gleaned from this host of factual material may save you hundreds of dollars.

"How to Build with Brick and Clay Products", a twelve page feature article that covers the basic construction facts for residential and light commercial building utilizing drawings, diagrams and photos making it easy to read and understand. An article you will want to keep in your construction data file for ready reference when using brick and tile on the job.

The May Blueprint House was designed by Rudolph A. Matern. Here is a home you can build and sell anywhere, suitable for North, East, South or West.

Plus all regular features, association news, technical guide, how-to-do-its and strong forceful editorials.
St Gable manual of essential data on Ventilating Fans for Homes is yours for the asking. Send for your free copy today.

NUTONE, INC., Dept. AB-3
Madison & Red Bank Rds., Cincinnati 27, Ohio.

Please send me a copy of your 16-page book, "A, B, C of Ventilating Fans."

Name ____________________________
Firm ____________________________
Address ___________________________
City ____________________________ State ____________________________

☐ Check here if you also wish literature on NuTone Door Chimes.
Every Mengel Flush Door—Hollow-Core or Solid-Core—has dove-tail wedged-locked joints at all four corners! This fine, exclusive, cabinet-maker's construction is found only in Mengel Flush Doors—requires more lumber, extra machining and labor, but you get stronger and more stable doors.

Mengel Flush Doors also provide many other advantages. They are designed and built to the highest standards of quality for extra durability, extra eye-appeal. Get all the facts. Write today for our new full-color descriptive A.I.A. catalog, including specifications.

Plywood Division, THE MENGEL COMPANY, Louisville 1, Kentucky
For What Shall We Fight?

In beginning vast preparations to prevent, or, if necessary, to fight, World War III, the American people have entered a more critical and dangerous period than any through which they have ever passed. The most vital issue confronting them is the same vital issue that has confronted man throughout the history of organized society—tyranny of the state versus freedom of the individual. And freedom of the individual in this country is more threatened by policies of our own government than by Communist imperialism. Wise action by our government can make it possible for us to protect ourselves from attacks from without. The real danger is that freedom of the individual will be destroyed by policies adopted ostensibly to resist attacks from without, but actually intended permanently to increase governmental control of the individual.

Two things are required for protection of individual freedom in the United States—(1) maintenance of the strongest economy possible, and (2) military preparations not too burdensome for the economy to bear. To maintain a strong economy, it is essential that there be no restriction or burdening of individual initiative and action that is not demonstrably essential to military preparations. This bars excessive taxation to defray government spending for non-essential purposes and extravagance in spending for essential purposes. It also bars all direct government controls of the economy that are not demonstrably necessary to provide sufficient materials and manpower for military purposes. The burden of proving the necessity of every tax sought and every control proposed is on the administration, and every tax and control proposed should be so mercilessly questioned that spokesmen of the administration will be forced to assume this burden of proof.

That we are in imminent danger of having government by presidential decree substituted for the process established by the Constitution was recently illustrated by the strike of railroad switchmen. A law passed by Congress, the Railway Labor Act, provides a process for settling labor disputes on the railroads. Because the switchmen refused to abide by this process, they almost stopped operation of the railroads, and were rapidly bringing industry to a standstill when the strike was broken by a presidential order threatening penalties not provided by any act of Congress. Can anybody question the danger of government policies which (1) give any labor union a nation-wide monopoly of such essential manpower, and hence (2) make it necessary to control the monopoly by presidential decrees?

Such private monopolies and presidential decrees are equally threats to the liberty of the individual; and if we are not arming ourselves to protect the freedom of the individual, for just what purpose are we spending so many billions in arming?

Almost every word of the Constitution shows that it was adopted to establish and maintain freedom of the individual; and if freedom of the individual is destroyed it will make little difference how, by whom or for what ostensible purposes it is destroyed. Tyranny over the individual is tyranny, whether exercised by a foreign totalitarian government or by our own.
EASIER TO SELL! ... Because People think of Johns-Manville FIRST*!
Johns-Manville Super-Felt Insulations come in 3 types — all made of the famous, firmly felted Johns-Manville Rock Wool

Ful-Thik Batts

More thickness, more rock wool for the money! Here is our number one recommendation. Made of the firmly felted Longfibre rock wool produced by Johns-Manville's revolutionary new process. Full stud thickness. (Also available Semi-Thik.) Batts are stronger, lighter in weight, have greater uniformity and rigidity throughout. Vapor-barrier with reinforced tacking flanges.

Thick Batt Blankets

In addition to the Johns-Manville Ful-Thik Batt, J-M Super-Felt now comes in Thick Batt Blankets. The firmly felted rock wool is fully enclosed for convenience in handling.

Medium Roll Blankets

For economy jobs, here's the new Medium Roll Blanket. With this third type you now have a complete line of Johns-Manville Rock Wool Insulations to meet every sales need.

* According to nation-wide public opinion surveys for home insulation, the public preference is 40 to 1 for Johns-Manville

For further information, write Johns-Manville, Box 290, New York 16, N. Y.

*According to nation-wide public opinion surveys for home insulation, the public preference is 40 to 1 for Johns-Manville
The World's Finest Locks

ARE OF PIN-TUMBLER DESIGN

Pin-tumbler security has been combined with economy, in the Kwikset "400" Line Locksets, making possible top-quality locks at rock-bottom prices. Architects prefer Kwikset's simplicity and beauty of design. Builders and contractors appreciate the economy of Kwikset's fast, easy installation. Wholesalers, Jobbers and Dealers cash in on Kwikset's low cost and fast turnover. Everyone deserves Kwikset's precision construction with high quality materials that results in such amazing durability.*

Whether you need one lock or thousands, investigate Kwikset's "400" Line pin-tumbler Locksets thoroughly before you buy. Remember, every Kwikset Lockset is unconditionally guaranteed.

IMPORTANT: Kwikset Locks, Inc. will soon be in production of their new "600" Line 6-pin tumbler cylindrical Locksets, of all steel and brass construction. Send for your copy of the new, colorfully illustrated catalog, giving full details of this new Kwikset Lock.

*Random selected Kwikset Locksets were subjected to wear tests equivalent to 100 years of hard, everyday usage on our specially designed testing machine. Every lock functioned perfectly at the end of the test.
The Delafield, popular for average homes and apartments, has a flat rim for building-in, roomy basins; the Wilshire, Wellwin, Camberley and Cymbria offer choice of double or single compartment sinks with or without drainboards, in various sizes. All have convenient full-length ledges with integral soap dishes, swing spout mixing faucets, lever-control sprayers. Duostrainers with removable cups assure positive drain control.

Kohler sinks are of non-flexing iron, cast for rigidity, coated with acid-resisting, easy-to-clean enamel. Fittings are of chromium-plated brass, engineered for long life.
GOOD BRICKWORK = GOOD DESIGN + GOOD WORKMANSHIP + GOOD MATERIALS

PARGING
WITH
BRIXMENT
HELPS ASSURE
DRY WALLS

WE SUGGEST THAT—
The face brick should be backplastered with not less than \( \frac{1}{4} \) of an inch of mortar before the back-up units are laid.

Or, if the back-up units are laid first, the front of the back-up units should be plastered with not less than \( \frac{1}{4} \) of an inch of mortar before the face brick are laid.

H eavy rains don’t make brick walls leak—they merely reveal the fact that the walls contain voids or passages through which the water may penetrate.

Dry brick walls are primarily the result of good design and good workmanship. Good materials are important, but still secondary. The more plastic the mortar used, the easier it is for the bricklayer to deliver good workmanship.

The photos at the left show some points of good workmanship.

Brixment mortar has greater plasticity, higher water-retaining capacity and better bonding quality. Because of this combination of advantages, architects, contractors and dealers all over America have for thirty years made Brixment the largest-selling mortar material on the market. Why not try it yourself?
**Nu-Glaze**

**HAS DOZENS OF USES!**

1. MAY BE PAINTED WHEN APPLIED
2. REPLACING OLD PUTTY
3. AROUND SINKS AND DRAINBOARDS
4. FILLS CRACKS IN BRICK, CEMENT, WOOD
5. AROUND BATH TUBS AND PIPES
6. BOAT WORK OF ALL KINDS
7. SETTING ALL PLUMBING FIXTURES
8. **Nu-Glaze is waterproof!**

**2 REASONS WHY IT PAYS TO SELL Nu-Glaze INSTEAD OF PUTTY!**

1. **IT MAKES SATISFIED CUSTOMERS BECAUSE Nu-Glaze STAYS PUT!**

   Although Nu-Glaze is applied like putty, it is entirely unlike putty in other ways. Needs no working up, clean to handle—not oily, does not dry out, harden, crack or peel. Perfect for glazing wood or metal sash, replacing putty, setting plumbing, filling cracks, boatwork of all kinds. Nu-Glaze does the job better too, because it always sets to a rubber-like consistency. It's no wonder Nu-Glaze sells fast!

2. **A BIGGER PROFIT ON EVERY SALE!**

   Most important of all is the bigger profit you make when you sell Nu-Glaze! Ordinarily when you sell a pound can of Nu-Glaze, you make 10c or more on the sale. But when you sell a pound can of ordinary putty, as a rule you only make about 1½c. That's why we say it pays you to sell Nu-Glaze instead of putty. You make bigger profits! You satisfy customers because Nu-Glaze always "stays put!"

---

**Nu-Glaze**

SETS TO A RUBBER-LIKE CONSISTENCY • DOES NOT DRY OUT • DOES NOT CRACK OR PEEL • NEEDS NO WORKING UP • NOT OILY • CLEAN TO HANDLE

---

**ORDER NOW — Your order will be shipped same day received!**

MACKLANBURG-DUNCAN CO.
OKLAHOMA CITY 1, OKLAHOMA
No Building is Weatherproof until it is CALKED

here's the most efficient, most popular calking load on the market!

Nu-CALK
SPEED LOAD

Easy to use: YES! And even easier to sell!
Here are some of the reasons why the new, improved NU-CALK SPEED LOAD enjoys such nationwide popularity. The specially designed cap insures perfect contact with gun nozzle—can't pull loose from fiber board tube. Glossine-lined container is air-proof moisture-proof, practically vacuum packed. With SPEED LOADS the user's hands never touch the compound. Always has a smooth, even flow and easy trigger action.

Does the job better than putty, and makes you bigger profits too! Nationally advertised, nationally known and nationally used. Stock up on Nu-Glaze today!

Nu-CALK CALKING COMPOUND

Same fine product as in Speed Load. Nu-Calk Calking Compound is available in 1/2 pint, pint, quart, gallon, 5-gallon cans. Also 55-gallon drums. Nu-Calk is the standard of calking quality

MACKLANBURG- DUNCAN CO.
OKLAHOMA CITY 1, OKLAHOMA
Permits Required for Non-Residential Building

A builder planning to erect a non-residential structure must first file and have approved Form NPAF-24

Kansas City, Dallas, Denver, San Francisco, Seattle, and Washington, D.C.

Information required on Form NPAF-24 includes a description of the building, proposed use, estimated construction costs in detail, material and equipment requirements, and building materials available. If it is claimed that the proposed construction will aid the defense effort or public health, safety or welfare, statements and other data to justify the claim must be included.

A section of the form is provided for cases which involve undue hardship if construction is not allowed to proceed. This includes non-recoverable losses due to purchase, lease development, etc. of land, financing expense, plans and specifications, contracts, work done on site, etc.

The credit curb on non-residential building is contained in an amendment to Regulation X made by the Federal Reserve Board. The new rule sets maximum loans on non-residential structures at 50 per cent of the value of the property. Loans must be paid off in 25 years at most, and amortization is required.

Major improvements to non-residential properties are permitted in the same terms if the addition or improvement exceeds 15 per cent of the property's appraised value before the improvement.

Schools, hospitals, churches, public utilities and government buildings are exempt from the regulation. Factory, warehouse, mining and farm structures are exempt in some cases.

If the proposed structure can be approved as being in the best interests of the defense effort the Federal Government will assist in procuring critical materials. A new form "Application For Assistance to Construct Facilities" is being drafted by the National Production Authority.

There is no assurance that enough critical materials will be available for builders in general except that the National Production Authority has stated that materials will be available for 850,000 new houses and necessary commercial construction.

Plans of the Authority change from day to day. For example, the Authority recently lifted the ban on the use of copper for water systems. The NPA said the lifting of the ban on the use of copper tubing for home water systems will permit many homes under construction, which otherwise would not be completed, to be finished on schedule. Shortage of galvanized pipe forced the lifting of the copper ban.
Addition to BETH-EL HOSPITAL, Brooklyn, N. Y.
Architect: WILLIAM I. HOKHAUSER, New York
General Contractor: EUCLID CONCRETE CORP., New York
Lone Star Masonry Cement supplied by
GENERAL BUILDERS SUPPLY CORP., New York
Lone Star Portland Cement for foundations, etc., from:
METROPOLITAN SAND & GRAVEL CORP., New York

LONE STAR CEMENT CORPORATION
Offices: ALBANY • BETLEHEM, PA. • BIRMINGHAM • BOSTON
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RICHMOND • ROANOKE • ST. LOUIS • PHILADELPHIA • WASHINGTON, D. C.
LONE STAR CEMENT, WITH ITS SUBSIDIARIES, IS ONE OF THE WORLD'S LARGEST CEMENT PRODUCERS. 17 MODERN MILLS, 125,000,000 SACKS ANNUAL CAPACITY

APRIL 1951

Lone Star Masonry Mortar
FOR QUALITY WALL CONSTRUCTION
IN $2-MILLION ADDITION TO ONE OF
THE NATION'S GREAT HOSPITALS

With its $2-million addition, Brooklyn's Beth-El is one of the nation's largest voluntary hospitals. This new 6-story wing is modern hospital construction at its best—with handsome face-brick walls assuring all-weather protection.

Sound reasoning backed the selection of LONE STAR MASONRY CEMENT to help assure these end results. For, on job after job—in hospitals, schools, commercial and industrial buildings, hotels, apartments and private homes—Lone Star Masonry Mortar has proved its worth in extra workability, fine appearance and no-cost maintenance over the years.

Count on Lone Star Masonry Mortar, too, for uniform texture, sustained high yield . . . to retain water and keep thirsty brick or block from sucking water from the mortar . . . to remain plastic, bed units firmly, provide better bond. Just what the doctor ordered, sure enough!
The Longer Your Cables the Weaker Your Power

Use

HOMELITE
Carryable Generators

and get peak production from power tools

Power tools have fully come into their own. Builders know they save time and costs. But there are two problems still to be considered.

1. The time, trouble and expense involved in installing electric power and,
2. the loss in power in running long cables from a central outlet, as shown in the accompanying table.

A Homelite Carryable Generator Solves Both of these important problems

Set up a Homelite Gasoline-Engine-Driven Generator on the job and you get immediate power. Set it right at the spot where you're operating tools and you don't have long power-hungry cables. You'll get more power for your tools. You'll stop tools from bogging down under overloads. You'll keep your tools sharper, more efficient and free from damage and need of repair.

Yes, put a Homelite on the job and put new life into your power tools.
Prefinished ... for beauty and economy

The famous Bruce "Scratch Test"

Half of this panel of flooring oak is finished by the Bruce penetrating seal method, the other half with a commonly used surface-type finish. When a coin is scraped across the panel, the ordinary finish scratches and chips away—but the Bruce finish is unharmed because it's "in the wood."

Bruce Hardwood Floors (Strip, Block, Ranch Plank) are prefinished because factory methods produce a penetrating seal finish that cannot be equalled on the job. Tests prove it will outwear ordinary finishes at least 3 to 1. The factory-applied finish brings out all the natural beauty of the wood... doesn't cover up or discolor the grain as surface finishes do. Housewives find, too, that prefinished Bruce Hardwood Floors are far easier to keep clean and beautiful.

The use of prefinished floors also saves from 3 to 5 days' time on a house job, because the floor is ready to use as soon as laid. Yet, with all these advantages, the cost of prefinished Bruce Hardwood Floors is normally less than for the same grade of unfinished flooring plus the expense of sanding and finishing on the job. Write for complete information—see our section in Sweet's Files.

E. I. BRUCE CO., MEMPHIS 1, TENN.

Bruce

HARDWOOD FLOORS

PREFINISHED Strip, Block, Ranch Plank

Other Bruce Products: Unfinished Flooring (Block, Strip, Plank) • Lumber and Wood Parts • Terminus • Floor Cleaner, Waxes, Finishes
Heat...Cold...Vapor...Fire—they shall not pass Certain-teed's BEAVER Insulating Gypsum Lath!

Here is the perfect plaster base! It combines in one product an effective foil insulation and vapor barrier...plus all the advantages of regular BEAVER Gypsum Lath! Fire-proof! Strong plaster bond! No shrinkage or expansion! Economy of time and labor!

Here are the amazing performance facts:

1. Insulation equal to $\frac{1}{2}''$ thickness of fiber insulation lath and plaster provided by the combination of BEAVER Insulating Lath and gypsum plaster, with the reflective surface of the lath facing an air space of not less than $\frac{1}{4}''$ between studs, joists or rafters.

2. An average vapor permeability of only 0.67 grains per square foot per hour, per inch of mercury pressure difference across the wall established for Insulating Gypsum Lath with $\frac{1}{4}''$ of plaster.* This is well below the limit of 1.25 grains of moisture which has been set by many authorities as the upper limit for good building construction.

*Prof. Frank B. Rowley, University of Minnesota

CERTAIN-TEED PRODUCTS CORPORATION
ARDMORE, PENNSYLVANIA

Certain-teed
REG. U.S. PAT. OFF.
Quality made Certain...Satisfaction Guaranteed

ASPHALT ROOFING, SHINGLES AND SIDING • GYPSUM PLASTER, LATH AND WALLBOARD • ACOUSTICAL TILE • INSULATION • FIBERBOARD
DELTA SCOOPS ALL SAW-MAKERS...
offers you the first and only power-saw that makes all these miter cuts

DELTA MILWAUKEE

DO THIS!
Before you buy any power saw, see what it offers in miter capacity.

GET PROOF!
Be sure the saw cuts miters and angle-dado from 0 to 90—both right and left.

FOR ALL CUTS ACROSS THE BOARD, YOU'LL FIND DELTA BEST—PROVE IT WITH THIS MITER TEST!

1. You get full 360° miter capacity—no need to handle low pitch cuts with other tools.
2. You get complete operator safety—the saw blade never goes off the table.
3. You have only one handling—no need to turn over long boards, for left hand cuts.
4. You set saw to the exact angle once—no need to repeatedly mark material.
5. You can angle-dado, right or left—0° to 90°. Never have to send special dado work outside. Delta is always kept busy.

For Capacity—Safety—Materials Handling—Marking—Angle Dado, plus many other features—DELTA is your Best Buy.

Actual Comparison Proves that ONLY Delta gives you FULLY usable 360° Radial Action.

Prices start at
$229.50!
including motor and blade
Plus some delivery charge
(Rubens to change without notice)
Easy time payments!

THE NEW DELTA* makes profits on every cut from cellar to roof.

CROSSCUT MITER RIP REVEL CUT OFF JACK REVEL RIP RATER

FREE MOVIE! Sound—Action—Color! Ask to see this film.
FREE DEMONSTRATION! Watch Delta Multiplex in action.
FREE IDEA BOOK! 20 pages showing unlimited uses of Delta Multiplex.

DELTA POWER TOOL DIVISION, ROCKWELL MANUFACTURING COMPANY
692-D E. VIENNA AVE., MILWAUKEE 1, WISCONSIN

TEAR OUT COUPON AND MAIL TODAY!

FREE MOVIE! Sound—Action—Color! Ask to see this film.
FREE DEMONSTRATION! Watch Delta Multiplex in action.
FREE IDEA BOOK! 20 pages showing unlimited uses of Delta Multiplex.

FREE MOVIE! Sound—Action—Color! Ask to see this film.
FREE DEMONSTRATION! Watch Delta Multiplex in action.
FREE IDEA BOOK! 20 pages showing unlimited uses of Delta Multiplex.
You can eliminate the expense of corner bracing...yet build better, stronger walls...with 4 ft. wide, 3\(\frac{3}{8}\)" thick Celotex Insulating Sheathing! Without corner bracing it greatly exceeds rigid F.H.A. requirements, which call for bracing strength at least equal to horizontal wood sheathing with corner bracing. Official test results at right prove it!

And remember, Celotex Double-Waterproofed Insulating Sheathing insulates as it builds—does both jobs at one low cost. Gives you more comfortable, more salable homes...for no more than the cost of uninsulated construction! Get all the facts now. Write for your free copy of the informative booklet, "How You Can Build Better Homes at Lower Cost." The Celotex Corporation, Dept. AB-41, 120 S. LaSalle St., Chicago 3, Illinois.

**OFFICIAL TEST RESULTS**

<table>
<thead>
<tr>
<th>F.H.A. Technical Criteria</th>
<th>Average of Test Results</th>
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</thead>
<tbody>
<tr>
<td>Circular No. 13</td>
<td></td>
</tr>
<tr>
<td>Maximum Load, lbs.</td>
<td></td>
</tr>
<tr>
<td>Dry</td>
<td>Wet</td>
</tr>
<tr>
<td>5200</td>
<td>4000</td>
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<tr>
<td>At Load of 1200 lbs.</td>
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<tr>
<td>Average Total Deflection, in.</td>
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<td>0.2</td>
<td>0.28</td>
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<tr>
<td>Residual Deflection, * in.</td>
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</tr>
<tr>
<td>0.1</td>
<td>0.14</td>
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<tr>
<td>At Load of 2400 lbs.</td>
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<tr>
<td>Average Total Deflection, in.</td>
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<tr>
<td>0.6</td>
<td>0.8</td>
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<tr>
<td>Residual Deflection, * in.</td>
<td></td>
</tr>
<tr>
<td>0.3</td>
<td>0.4</td>
</tr>
</tbody>
</table>
*Deflection remaining after removal of load.

**Only Celotex Insulating Sheathing gives you all these big advantages**

1. **NO CORNER BRACING** needed to meet rigid F.H.A. requirements, with 4 ft. wide, 3\(\frac{3}{8}\)" thick Celotex Insulating Sheathing, applied vertically. An important extra saving!

2. **STRONGER, MORE RIGID** than ever. Builds, insulates, protects—all at one time. Yet costs NO MORE than ordinary sheathing, applied.

3. **DOUBLE-WATERPROOFED**—inside by integral treatment that coats every single fibre; outside by asphalt coating. Yet has over twice the vapor permeability required by Government agencies!

4. **RESISTS MOISTURE PENETRATION** even under severe exposure during construction. Lets you resume work sooner after heaviest rain, cutting costly delays!

5. **FASTER, EASIER, THRIFTIER** to apply than ordinary sheathing. Negligible waste. No building paper needed.

6. **IT IS THE ONLY SHEATHING** made of tougher, stronger long Louisiana cane fibres—and protected by the patented Perox* Process from fungus, dry rot, termites!

**Types and Sizes**

25/32" Big Board

- 4" wide x 8', 9', 10', 12' long; square edges
- 4" wide x 8', 9', 10', 12' long; square edges
- 2" wide x 8' long; V-type tongue and groove on long edges
of Corner Bracing

We're telling your prospects all about how you assure them extra comfort, extra savings... by insulating the exterior walls of the homes you build with Celotex Insulating Sheathing! We're telling them in eye-catching full page ads in The Saturday Evening Post and other national magazines! Over a quarter century of hard-selling national advertising like this has helped create unsurpassed public acceptance for the Celotex brand name. That's one reason why homes built with genuine Celotex Products are easier to sell!

And—for smart, colorful interiors at low cost... CELOTEX INSULATING INTERIOR FINISHES

Builders have found that colorful interiors mean quicker sales. And the modern, money-saving way to build colorful living rooms, dining rooms, bedrooms and rumpus rooms that avoid the monotony of ordinary wall and ceiling treatments is... with Celotex Insulating Interior Finishes!

Pre-decorated at the factory, Celotex Insulating Interior Finishes require no painting or papering. They build, insulate and decorate—all at one time. Their exclusive, popularity-proved colors—including smart new Sierra Rose and Blue-Green Tile Board and Finish Plank—add a world of “quick-sale” appeal to your homes. Their low cost and ease of application give you important savings. Write now for new Celotex book “Ideas for Planned Interiors.”
In today's building or remodeling operations, enduring beauty and sound construction are qualities you can easily achieve with NEVAMAR. This high-pressure laminate has withstood every laboratory and use test to which it has been subjected. It assures a maintenance-free service...never needs painting or refinishing. Use it on every type of surface...on wall paneling as well as built-in fixtures and furniture. NEVAMAR offers a wide range of decorator colors and original patterns, suitable for the home and commercial applications alike. Get all the facts about NEVAMAR now and see how readily it solves your surfacing problems.

The Ideal Surfacing Material For:

| Dinette Sets | Fountains | Telephone Booths |
| Sink Tops | Booths | Cocktail Tables |
| Work Tables | Wall Paneling | Cabinet Tops |
| Restaurant Tables | Wainscoting | Desk Tops |
| Bar Tops & Fronts | Doors | Store Fixtures |
| Counter Tops | Elevators | Beauty Salons |

Write For This Free Booklet
In actual full-color photographs, you'll see many of the applications to which NEVAMAR is suited. It's yours for the asking.
Nationally Advertised FREMONT Products
that **Build Prestige** into every job!

**Rubber Tile Diagonals**
Your reputation for finer floors is made with Fremont Rubber Tile Diagonals. Precision cut at the factory, they give a "custom" floor effect without the added cost of handwork. Many fade-resistant decorator colors to choose from. Plan Fremont Diagonals for that next "exclusive" floor arrangement.

**Vinyl Plastic Cove Base**
The perfect low-cost base trim for all hard floor coverings. Fremont Cove Base comes in continuous lengths, F.O.B. Fremont. Waterproof, vermin-proof, scuff-proof, it is ready for immediate shipment in 4" heights, black only. Fremont Rubber Tile Adhesive is recommended for best application.

**Rubber Tile Adhesive**
For Rubber Tile or Fremont Cove Base application, Fremont Adhesive is recommended as the best adherent. Full setting strength is reached in four days; tile may be set up to 45 minutes after application. Recommended for use over radiant panel heating.

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**Fremont Rubber Company**
310 McPherson Highway, FREMONT, OHIO

Please send me a copy of your new full color brochure.
NAME_____________________________________
FIRM NAME_______________________________
STREET ADDRESS___________________________
CITY______________STATE__________________

APRIL 1951
Custom look in windows...

Looks like a custom window job, doesn’t it? Yet the picture window, casements and corner windows were all assembled of stock units.

Eye-catching and sales-clinching . . . these Lupton Windows will stay that way for generations. They are Lupton Metal Windows—precision built, cannot warp, shrink, swell or rattle. Assure controlled, draft-free ventilation as needed. Finger-tip operated hardware is designed for long life and trouble-free service.

The exterior will always look trim and neat for the practically invisible screens and glass insulating panels go on the inside.

Add all these sales features to your next house. Send for the NEW 1951 Catalog that shows the complete Lupton line—residential—industrial—commercial windows and doors.

MICHAEL FLYNN MANUFACTURING COMPANY
700 East Godfrey Avenue, Philadelphia 24, Penna.
Member of the Metal Window Institute & Aluminum Window Mfrs. Assn.

LUPTON
METAL WINDOWS
BEATS ELECTRIC SAWS COSTING $50 MORE!

ABUNDANT POWER!

This LECTRO-SAW has extra power that means faster sawing. For example, in a mechanically-controlled speed ripping test, it outperformed saws costing $50 more!

EASY HANDLING!

Handle-to-blade dimension has been held to a minimum for easy control and greater cutting accuracy. Yet handle is close to center of gravity for good balance!

QUICK ADJUSTMENTS!

Depth and bevel adjustments are built-in, fast-changing. And two depth adjustments (front and rear) keep handle in comfortable wrist position, regardless of depth of cut.

8" Heavy-Duty LECTRO-SAW

(Cuts to 2 5/16" depth) only $92.50

For a real eye-opener in performance, check an 8" Heavy-Duty LECTRO-SAW before you buy your next electric saw! You'll be amazed at its speed, power, easy handling, safety and low price. See your building supply dealer for a demonstration. Ask him how new Standard LECTRO-BLADES actually increase output of the Saw—and new Carbide-tipped LECTRO-BLADES cut transite and Cemesto Board 7 to 12 times faster than abrasive discs! Also ask about 6" Heavy-Duty at $56.50. Write for free catalog to: HOME-UTILITY Div., BLACK & DECKER Mfg. Co., Dept. H-666, Towson 4, Maryland.
EVERY HOUSE BEAUTIFUL IS

Every month it’s pace-setting editorial presentations create top consumer desire in your trading area for home improvement...for new materials, new design.

In May, it’s the 1951 PACE-SETTER HOUSE... designed to inspire the best-customer families of your area, to give them ideas to copy for their own life, to offer them a standard against which to measure their own home plans, dreams, and present realizations.

Some years HOUSE BEAUTIFUL creates a house which is so completely the ultimate in architecture, landscaping, and decorating that, in its entirety, it could be afforded by only a very small percentage of our population. Other years the Pace-Setter house has been of particular interest to people in the income bracket of $10,000 to $12,000. Built in Dobbs Ferry, N.Y., this year’s Pace-Setter could be afforded—complete—by families in the $20,000 to $25,000 income bracket. For it can be duplicated (without furnishings) in the same county, with the same specifications, in the spring of 1951, for a shade more than $50,000. This price does not include land, shrubbery, or fees, but it does include everything structural: fences, terrace paving, driveway, service yard facilities, and all the structural parts of the landscaping.

The composite ideas of this one house can be a yardstick against which your prospective customers can measure their own mode of living—wherever it may be. For the house was designed to be a symbol of the accepted practices of good living current in this year of 1951. It is a kind of crystallization of the meaning of our times—its technologies, its social values, its aesthetics and its emotions. Taken in its entirety, it has one kind of meaning. Taken in its individual component parts, it has another kind of meaning. One or the other, or both, should apply to your customers.
HOUSE BEAUTIFUL'S 1951 PACE-SETTER HOUSE features up-to-the-minute tricks in controlling the climate...tricks in design and application of structural materials which insure maximum year-round comfort, indoors and outdoors, and minimum maintenance.

And these consumer-slanted tricks mean bigger business for you...particularly if you sell insulating and waterproofing materials, prefabricated concrete and steel products, plywood, modern heating equipment, tile, air conditioning equipment, insulating glass, plastic screening.

TILE
The use of tile, for glowing color and ease of maintenance, is demonstrated throughout the house. The non-carpeted floors of living room, dining room, laundry and kitchen flow out to include entry and breezeway on north, big screened porch on south. Cool in summer, warmed in winter, it's stressed as an important factor in year-round indoor comfort. Tile covers kitchen and bathroom walls, adorns living room chimney breast, and is even used, with telling effect, on window seat in den.

PLYWOOD
This year's Pace-Setter is built of big sheets of plywood instead of the thousands of pieces of sheathing and clapboard ordinarily used on frame houses. For increased strength and stability, walls have two layers on each side—the inner one nailed horizontally, the outer one vertically. Cedar and oak "naturalistic" interior veneers conform to trouble-free low-upkeep American Style living. Inside and out, this house is one of the most important sales-builders for plywood ever presented by a consumer magazine.

HEATING EQUIPMENT
The Pace-Setter's design demonstrates recognition of the principle that there's no substitute for a good heating plant, as well as a well-insulated and well-sited structure, in cold climate. Heating coils were installed in both the tiled floors and plaster ceilings, to keep both surfaces merely warm to the touch and avoid the uncomfortable warmth which would have resulted if all coils had been concentrated in either surface alone. This arrangement also minimizes "heat lag" effect when sun comes out in cold weather and floods house through glass on south side. Floor is relatively cool and plaster ceiling cools off quickly, so house does not overheat. Electronic controls include indoor and outdoor thermostats, hooked together so that weather changes are anticipated. A clock permits time control of night temperatures.
EVERY HOUSE BEAUTIFUL IS

Every month, practical trade messages like these offer you ideas for brand promotions.

Available for 25c, this new JOHNS-MANVILLE "HOME IDEA BOOK" covers both remodeling and new construction. There's a section on exteriors including side-walks and patios; a section on Home Insulation for greater year round comfort; dozens of ideas for interiors including suggestions for extra rooms in attics and cellars.

BALSAM-WOOL INSULATION — Promote remodeling insulation sales. Write for complete merchandising kit comprising displays, direct mail, ad mats, literature. Balsam-Wool fuel savings make remodeling easier to sell — new rooms can actually pay for themselves. Balsam-wool sealed insulation is available at your lumber dealer.

Color and design receive dramatic new expression in the new 1951 BIRGE line. Sparkling versatility ... fine interpretation of authentic designs ... and exceptional coordination of color throughout ... provide a new image of the Birge collection in over a century of wallpaper leadership. Write the Birge Company, Inc., Buffalo 1, N. Y. for name of distributor nearest you.

"What a Wonderful Way to be Different" says A.B. May to House Beautiful — and shows an entrance made ever so inviting with BLUE RIDGE PATTERNED GLASS. This series of ads gives people ideas to make their homes more enjoyable, more valuable. They're ideas you can use, too.

PERMA-STONE is the original moulded stone wall-facing. Used nationally for over 20 years for modernizing exteriors and for new construction. Applied over walls of any kind. Fire-safe, weather-tight, vermin-proof. Provides distinctive, varied beauty of homes in group housing projects. Ideal for fireplaces, recreation rooms, bors and other interior uses.

WELDWOOD PLYWOOD, in a wide variety of imported and domestic woods, is especially well-suited for renovation and alteration work in homes, stores and other buildings. It offers the beauty of real wood combined with freedom from maintenance expense. Made in numerous thicknesses, it is a favored material for wall panelling, furniture and built-ins.

Here's the perfect answer to decorating problems. Whether in new or existing homes, bathroom and kitchen walls and ceilings take on a look of rare beauty with the full rich colors afforded by feather-light individual VIKON METAL TILES. 30 smart decorator colors to choose from.

The May issue of House Beautiful carries a full color page advertisement on CURTIS SILENTITE WINDOWS. If you wish a display card showing this ad, write to House Beautiful at the address given below. For literature write to Curtis Companies Service Bureau, Clinton, Iowa.

The EASTERN PRE-FAB has brought venetian blinds to their full perfection. Custom-made to fit your windows by Eastern Machine Products Company's many custom manufacturers. Pre-Fab blinds are available in 14 decorator colors, all in DuPont Plastic finish. Pre-Fab venetians have the enclosed all-metal head and Eastern's famous one-piece metal bottom rail which keep an eye on those cleaning chores that make it a matter of seconds to remove the slats for cleaning.

Full-page 4-color ad backs the reader — your prospect — right into a corner. Shows him pictorially how MODERNFOLD DOORS pay off as low-cost room partitions. Literature available. NEW CASTLE PRODUCTS, New Castle, Indiana.

See something new! See something wonderful! See WINGFOOT VINYL — The World's Most Beautiful Flooring — in GOODYEAR'S full-page, full-color ad in House Beautiful for May. Remarkable flooring that it is, Wingfoot Vinyl doesn't need waxing, resists marking, scuffing, sun and time! Available in a rainbow range of lovely colors!

The May issue of House Beautiful carries a full color page advertisement on CURTIS SILENTITE WINDOWS. If you wish a display card showing this ad, write to House Beautiful at the address given below. For literature write to Curtis Companies Service Bureau, Clinton, Iowa.

Full-page 4-color ad backs the reader — your prospect — right into a corner. Shows him pictorially how MODERNFOLD DOORS ... because they save the space swinging doors waste ... can make a typical "Good-for-Nothing Corner Go to Work." Ad further points out how these versatile, vinyl-covered folding doors pay off as low-cost room partitions. Literature available. NEW CASTLE PRODUCTS, New Castle, Indiana.

Every month, free display cards and free mats for your newspaper advertising are available ... to put HOUSE BEAUTIFUL's prestige as a buying guide to work for your business.

For mounted display cards, check any or all of the top-quality products below (preceded by a number), which are advertised in the May issue.

For the mat, in which product names can easily be inserted, check the square indicated.

Fill in your name and mailing address and mail to: Merchandising Division, House Beautiful Magazine, 572 Madison Avenue, New York 22, N. Y.

1. BALSAM-WOOL SEALED INSULATION
2. JOHNS-MANVILLE "HOME IDEA BOOK"
3. BIRGE WALLPAPERS
4. STRAHAN WALLPAPERS—HAND PRINTS
5. "SPRINGTIME" & "BEEHIVE" PATTERNS
6. WARNER WALLPAPERS
7. "MALMAISON" PATTERNS
8. BLUE RIDGE PATTERNED GLASS
9. VIKON METAL TILES
10. WEIRTON STEEL FOR WALLS & DOORS
11. WESTERN PINE WALLS & WOODWORK
12. GOODYEAR WINGFOOT VINYL FLOOR COVERING
13. MOSAIC TILE "FORMFREE" PATTERNS
14. PARKAY HARDWOOD FLOORS
15. ROBERTS SMOOTHEDGE TACKLESS CARPET INSTALLATION
16. PERMA-STONE
17. EASTERN PRE-FAB VENETIAN BLINDS
18. KIRSCH SUNAIRE VENETIAN BLINDS
19. LORENTZEN LEVOLOR VENETIAN BLINDS
20. PELLA CASEMENT WINDOWS
21. SILENTITE WINDOWS
22. THERMOPANE
23. MODERNFOLD DOORS
24. NATIONAL GUARD SCREEN DOOR GRILLES
25. STERLING HARDWARE FOR SLIDING DOORS
26. CUBOT'S COLLOPAPES
27. CABOT'S CROSSETO STAINS
28. COLORIZER PAINTS
29. MINWAX WOOD FINISHES & WAXES
30. RAMUC ENAMEL FOR POOLS
31. AMERICAN-STANDARD PLUMBING FIXTURES
32. CASE PLUMBING FIXTURES
33. CHURCH SEATS
34. ELIJER FINE PLUMBING FIXTURES
35. LUSTERTONE STAINLESS STEEL SINK
36. MIAMI-CAREY BATHROOM CABINETS & FIXTURES
37. GENERAL ELECTRIC DISPOSAL

NAME
ADDRESS
CITY
ZONE
STATE
A.B. MAY

AMERICAN BUILDER
A BIG BUSINESS-BUILDER...

... built around the best-seller names which parade across its advertising pages.

NATIONAL GUARD PRODUCTS, INC., Memphis, continues its consistent advertising in May House Beautiful to promote sales through brokers and dealers for ADJUSTABLE SCREEN DOOR GRilles in popular price range. Skillfully handcrafted of lasting steel, with white enamel finish, the beautiful ornamental grilles feature graceful figures of rust aluminum.

People like windows—lots of them throughout the house. Often, they don't think about the possibility of chilliness near single-pane windows in cold weather. LIBBEY-OWENS-FORD reminds house beautiful readers that for winter comfort, windows should be THERMOPANE insulating glass. THERMOPANE gives homeowners the benefits of storm sash without their bother.


Modernization is the theme of this colorful AMERICAN-STANDARD double-spread advertisement. Showing seven remodeled rooms—including bathrooms, basements, kitchens and a utility room—it features the DRESSLYN LAVA-TORY-DRESSING TABLE COMBINATION and MASTER PEMBROKE BATH. Other plumbing fixtures and various heating units are also shown. Includes request form for new Home Book.

Four striking post-colors—blue, yellow, green and card—as well as white give popular appeal to the complete Eljer line of quality plumbing fixtures. The result: Last year more ELJER FIXTURES were sold than ever before.

1951 MODELS RUUD AUTOMATIC GAS WATER HEATERS incorporate increased performance from smaller sizes along with certain material-saving design changes, both for the purpose of conserving critical materials. Ruud Mfg. Co., Pittsburgh 1, Penna.

AUTOMATIC GAS HEATING gets another boost this month in BRYANT HEATER'S advertising campaign in House Beautiful. And Bryant distributors now offer, without charge to the dealers, several attractive indoor and outdoor signs to help promote Bryant gas heated homes. It pays to plan your homes for gas heating...particularly with Bryants!...

Home builders and home owners today realize that AUTOMATIC GAS HEATING gets another boost this month in BRYANT HEATER'S advertising campaign in House Beautiful. And Bryant distributors now offer, without charge to the dealers, several attractive indoor and outdoor signs to help promote Bryant gas heated homes. It pays to plan your homes for gas heating...particularly with Bryants!...

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38. PERMAGLAS AUTOMATIC WATER HEATER
39. RUUD-MONEL WATER HEATER
40. MORTELLE NO-DRIP TAPE
41. AMERICAN-STANDARD BASEBOARD HEATING
42. BRYANT AUTOMATIC HEATING
43. HUNTER PACKAGE ATTIC FANS
44. ILG ELECTRIC VENTILATORS
45. MINNEAPOLIS-HONEYWELL THERMOSTATS
46. MUELLER CLIMATROL
47. TORRINGTON "VAIRIFIED" AIR MOVING UNITS
48. TRADE-WIND KITCHEN CLIPPER * WEBSTER BASEBOARD HEATING
49. WILLIAMS OIL-O-MATIC OIL BURNER

... built around the best-seller names which parade across its advertising pages.

50. DEEPFREEZE HOME FREEZER
51. PHILCO HOME FREEZER
52. REGINA TWIN-BRUSH FLOOR POLISHER
53. ROPER GAS RANGES
54. THERMADOR BILT-IN ELECTRIC RANGE * TUCKER TELESCOPE HANDLED HOUSE WASHER
55. UNIVERSAL SELECT-A-RANGE
56. YOUNGSTOWN KITCHENS
57. INCLINATOR HOME ELEVATORS
58. SEDGWICK RESIDENCE ELEVATORS
59. SHEPARD HOMELIFT & ESCALIFT *
60. K-VENIENCES FOR KITCHENS
61. TUCH-LATCH FOR CABINET DOORS
62. CUTLER-HAMMER MULTI-BREAKER
63. PORTLAND CONCRETE
64. WEST DODD LIGHTNING PROTECTION
65. ANCHOR CHAIN LINK FENCES
66. DUBOIS OLD FASHIONED POST & GATES
67. TRADITIONAL RESIDENCE FENCES & GATES
68. RUSTICRAFT WOODEN FENCES & GATES *
69. KIRSCH RUSTIC WOOD FENCE * MAJESTIC OUTDOOR FIREPLACE UNIT

Modern living includes window, floor, attic, kitchen fans for greater comfort; cleaner, healthier homes. Soaring fans sales curve can pull your sales up too! TURRINGTON VAIRIFIED Tag merchandised in national advertising helps sales by identifying for consumers air-moving units having quality Turrington components. Request free book showing 113 products, sources.

Retailers across the country who are aggressively promoting the REGINA TWIN-BRUSH POLISHER this season are tying in with the largest national advertising campaign ever run on America's No. 1 polisher and scrubber. House Beautiful and 12 other consumer magazines are conveying the Regina message to a readership of 125 million.

KIRSCH leadership is cultivated by aggressive advertising and publicity...just as it is carefully maintained in the design and quality of Kirsch products. You share in the fame of the Kirsch name when you tie-up with it in your advertising...and when you mention Kirsch on your sales floor.

Every month in House Beautiful, Webster advertising tells your prospects about WEBSTER BASEBOARD HEATING—true perimeter heating with forced hot water. Proven in service in more than 12,000 installations. Descriptive literature on request to Warren Webster & Company, Dept. HAB-5, Camden 3, New Jersey.

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COLLINS CONCRETE

as currently seen in
House Beautiful

NAME
ADDRESS
CITY ZONE STATE A.B. MAY

APRIL 1951

31
There's no better shingle value on the market today!

than TEXACO'S top performing

TEX-LOK
DOUBLE COVERAGE!
HEAVY DUTY!
INTER-LOCKING!

For new construction or re-roofing, for farm and commercial buildings—your customers will be glad you recommend TEX-LOK. It's the double coverage, heavy duty, interlocking type shingle that has been tested in every weather—and weathered every test!

TEX-LOK's built to resist high winds. It's fire-resistant and mighty good looking on the roof. Lasts longer, too.

And—it's TEXACO—the name that millions know and trust. There's no better shingle value on the market today!

TEX-LOK Shingles are available in the areas currently served from roofing plants located at Lockport, Illinois; Port Neches, Texas and Port Wentworth, Georgia.

In the East, it's...
TEX-LATCH
Available in the areas served from the Edge Moor, Delaware roofing plant—another top-performing Texaco asphalt shingle... TEX-LATCH. It's similar to Tex-Lok, differing in the method of locking tabs. It's heavy duty, double coverage and interlocking.

TEXACO
Asphalt Roofing Products
THE TEXAS COMPANY
MEMBER OF THE
ASPHALT ROOFING INDUSTRY BUREAU
AMERICAN BUILDER
"The lock that never hangs on by a fingernail"

- Another reason why the Sargent 4500 leads among bored-in locks — it never has to "hang on by a fingernail" because the 4500 has a full 1/2" bolt throw.

And you know the bolt will travel the full distance every time because the Sargent 4500 is built with four separate springs for smooth, positive latching.

A better lock by —

Sargent and Company

New York  NEW HAVEN, CONN.  Chicago

Builders Hardware and Fine Tools since 1864
No Wonder the Public Likes It!

Look at the extra features and you’ll see why Eljer’s Martha Washington Vitreous China Lavatory is so popular. The unmarred back surface is made possible by the Eljer concealed front overflow . . . the generous shelf back provides extra room for bathroom odds and ends . . . an anti-splash rim prevents water from “slopping” over . . . Eljer Brass is distinctly styled and quality made for extra-long service . . . and for extra-beauty in the bathroom the Martha Washington, in color or in white, can’t be topped.

But most important of all . . . the Martha Washington, like all other Eljer Fixtures, represents quality through and through . . . quality that means customer satisfaction for you. For complete information on the complete Eljer Line of fixtures and fittings, see your Eljer Distributor or write Eljer Co., Ford City, Pa.

It pays you, it pays us—because we specialize in Plumbing Fixtures and Brass
ASSOCIATIONS
Their Plans and Activities

Industry Outlook Under Controls
Studied at Dealer Conventions

Record numbers of retail lumbermen hear experts probe building situation at state, regional meets

Resolutions calling for the holding back of legislation for defense housing, and urging relaxation of Regulation X in areas where more housing may be needed, climaxed the annual convention of the Northeastern Retail Lumbermen's Association at the Hotel Statler in New York City January 29-31.

More than 4,000 persons registered for the meeting, the association's 57th. There were around 115 exhibitors.

Speaking at the final session, Senator Everett M. Dirksen of Illinois told delegates "that while the nation is peril from forces that are at work in foreign lands, let's not forget the jeopardy we are in, in our own country... the danger from forces that are moving, that can take away our freedom overnight."

Dirksen predicted that "the people of the United States will meet the challenge of the menace to our freedom in the same resolute fashion that we have done throughout our history."

Convention delegates also heard Clyde A. Fulton, president of the National Retail Lumber Dealers Association, discuss the association's objectives for 1951; Roy Wenzlick, St. Louis business analyst, forecast "The Outlook for Real Estate and Construction; Edward G. Gavin, American Builder editor, talk on "The Great Opportunity Before Us"; and other well-known speakers.

Russell L. Fish of Scituate, Mass., was elected Northeastern president for 1951, succeeding John W. Dain, Mahopac, N.Y. Other officers named were vice presidents Frank H. Morin, Fulton, N.Y.; J. Harold Stacey, Windsor, Vt.; Deyo W. Johnson, Ellenville, N.Y.; Arthur Clifford, Bridgeport, Conn.; and treasurer Oliver J. Veling, Buffalo, N.Y.

Southwestern

The 3,753 persons who registered at the 63rd annual convention of the Southwestern Lumbermen's Association set an attendance mark which passed the previous record by more than 500. The meeting was held at the Kansas City, Mo., municipal auditorium January 24-26.

Delegates chose for 1951 president Clarence D. Burkholler of McPherson, Kans. He succeeds Charles H. Kemper, Troy, Mo. Named first, second and third vice presidents, respectively, were Henry H. Jones, Little Rock, Ark.; Fred S. Stephenson, Chickasha, Okla.; and Sam M. Arnold, Kirksville, Mo.

Convention speakers included attorney C. Boyd Mahin of MacLeish, Spray, Price and Underwood, Chicago; Gerald F. Hoppe, Minnesota and Ontario Paper Co., Minneapolis; Ralph W. Carney, the Coleman Co., Inc., Wichita, Kan.; Martin V. Coffey, Philip Carey Manufacturing Co., Cincinnati.

(Continued on page 218)

Ease "X" to Spur Housing in Key Areas, Atkinson Asks

Relaxation of Regulation X would spur production of housing in war production areas where need is increasing, W. P. "Bill" Atkinson, president of the National Association of Home Builders, recently told members of the House Banking and Currency committee in Washington.

NAHB PRESIDENT W. P. "BILL" ATKINSON, Oklahoma City developer, testifies before House banking and currency committee on proposed Defense Housing Act of 1951

Atkinson, testifying on the Defense Housing Act of 1950 (H.R. 1273), said that "such action should be taken immediately, while the supply of critical materials, particularly metal, is reasonably adequate."

Referring to the proposed legislation as an omnibus bill, he said that many provisions are well adapted to the problems they seek to solve. He disapproved of other provisions and offered suggested amendments.

Atkinson outlined the following points as essential to any successful program designed to stimulate defense housing production:

(1) Regulation X should be relaxed in designated defense areas to spur production of as many houses as possible under existing legislation.

(2) The Federal Housing Administration should be authorized to insure, in defense areas, loans up to 90 per cent, based on acceptable risk in view of the emergency, with authority for slightly higher mortgage maximums in higher cost areas.

(3) Mortgage insurance for loans on rental projects of mobile homes, (Continued on page 218)
Confirmation of the fact that expansion of the steel industry actually is under way is the best news our industry has had for many months on the economic front. The hope is to add within the next two years enough extra steel capacity to enable our great American production machine to meet its continuing defense requirements and at the same time fill near-normal civilian needs.

The news is good for the building industry because steel undoubtedly will be the principal factor determining how many homes, stores, and other buildings we can put up from now on. For many purposes, of course, lumber or other materials can replace steel, especially in home building, but some steel products are essential.

One of our principal tasks here in Washington will be to see that construction gets its fair share of the supply of steel allocated for non-military use. There will be many pressures from other industries, and defense officials will have to make arbitrary decisions. Our industry must make sure that those who make the decisions keep the building industry’s needs in mind at all times, until sufficient new capacity has been brought into production to satisfy all claimants.

We must not forget that every additional ton of steel made available for construction opens up a wider market for lumber, gypsum products, and other non-critical materials, while every ton that goes to some other industry means a correspondingly smaller demand for those materials.

The decision to expand steel production during the emergency is good evidence that American industry and our top defense officials are determined to keep the country strong on the home front while expanding our defenses. That kind of thinking and planning augurs well for our economic future.

Until the new steel capacity materializes, we all can serve the public interest, and our own, by using critical materials wisely, eliminating waste in their use, and utilizing suitable substitutes wherever possible. And we must enlist the cooperation of the public to the same end.

The ingenuity which the building industry has demonstrated through the years will let us do a lot of building in the months ahead if we accompany it with good judgment.

Brock Named ’51 President Of California Institute

Milton J. Brock, former president of the National Association of Home Builders, has been elected 1951 president of the Home Builders Institute, Los Angeles, succeeding William H. Evans.

Other officers named were Mark A. Thoreson, first vice president; E. Avery McCarthy, second vice president; Arthur C. Wright, third vice president; and William H. Evans, treasurer. Clifford L. Lawson was re-elected executive secretary.

Other positions Brock has held are NAHB treasurer, secretary and director; president of the Building Contractors Association of California; and president of the Construction Industries Exposition and Home Show of Southern California.

L. I. Group Adds 445 Members in ’51 to Rank Third in NAHB

By adding 445 members in 1951, the Long Island Home Builders Institute more than tripled its membership and advanced from twenty-first to third place among National Association of Home Builders chapters, it has been announced by Frederick E. Gibson, institute president.

Current membership, Gibson said, is 659, compared to 214 a year ago, a net gain of 207.9 per cent. This was the largest percentage gain among the 149 groups affiliated with NAHB and the institute was awarded a plaque for the achievement at the recent national convention. The new strength entitles the group to five national directors instead of the former two.

Gibson said that the Long Island chapter now ranks third numerically in NAHB, only exceeded by the state association of California with 1,610 members and the Chicago Metropolitan Home Builders Association with 839.

The campaign for new members last year was under the direction of Bernard Krimsky, be and Leonard L. Frank, president, setting a goal of 642 members by January 1, 1951, three times the strength at the time.

Seattle Leaders for 1951

1951 OFFICERS and directors of the Seattle Master Builders Association at recent installation meeting (from left): Samuel Anderson, regional vice president; Ross Hebb, president; A. C. Goodwin, vice president; Kenneth Larsen, secretary; Harold L. Larsen, director and outgoing president; Meade Hargiss, treasurer; and directors William Johan- nesen, Albert LaPierre, Cecil Beal and Gordon Rogers. Directors not in picture are Victor Chapman and E. J. Groselcose, Ross Hebb, V. O. Stringfellow and Albert Balch are regional directors.
NAHB Committees for 1951
Announced by Atkinson

Organization of the 1951 National Association of Home Builders' Executive Committee and President's Advisory Council has been announced by President W. P. Atkinson. Making up the groups are:

Executive Committee — President Atkinson, 1950 President Thomas P. Coogan, First Vice President Alan Brockbank, Second Vice President E. M. Spiegel, Secretary R. G. Hughes, Treasurer Nathan Manilow, Joseph Haverstick, Leonard Frank, Emil Gould, Floyd Kimbrough, Paul Burkhard, V. O. Stringfellow, Earl Smith.


Also named were standing committee chairmen—R. G. Hughes, Regional Vice Presidents' Council; Alan Brockbank, Legislative; Rodney Lockwood, Emergency Committee on Production and Distribution of Building Materials; E. M. Spiegel, Emergency Committee to Effect Economies in Materials and Construction; Joseph Haverstick, Convention; Wallace Johnson, Economy Rental Housing; and Floyd R. Kimbrough, Membership.

New Indianapolis Executive

G. William Mohr has been appointed executive vice president of the Marion County Residential Builders, Inc., Indianapolis, C. A. Wacker, president, has announced. Mohr succeeds Elmer E. Meadley, who recently resigned.

Cortright's Column

FRANK W. CORTRIGHT. Executive Vice President, National Association of Home Builders of the United States

Public Relations for the Ladies

Every builder knows the economic fact that women control the Nation's pursestrings . . . that they are the major factor in every home sale.

Further, they are a powerful force along the political front, through such organizations as the League of Women Voters. It is only natural, then, that the NAHB pays special attention to the fair sex and often beams articles and stories directly at them.

One of our latest methods of reaching this ever-growing and powerful audience has been the medium of radio. Each week the NAHB sends out to about 400 radio stations a three-page summary of the latest news about housing. Most stations use the information on their women's programs between 9 and 12 a.m. Comments from radio station managers prove the success of this public relations effort.

Here in abbreviated form, are sample offerings of NAHB's continuing effort to place housing facts before the listening audience:

"...The five millionth postwar home was started somewhere in the United States this month, according to a report from the National Association of Home Builders. This production has smashed all previous records. NAHB officials say the five millionth house should be completed sometime in May, about the same time production controls will begin to slow up the fast-moving housing industry."

"...Here's an interesting bit of information on new homes about which few people are aware. Research on wheels is making life more comfortable for home owners. This time it's a new mobile laboratory, in a truck, that makes tests of heating systems being installed on housing sites. The laboratory is composed of 400 pounds of the latest electronic temperature measuring devices. First assignment for this traveling test tube is Chicago, where there's plenty of work to be done, according to builders and the weather man."

"...Tests will be made on all sorts of heating systems. The tests will determine heating efficiency and economy in homes with concrete floors and conventional basements. Also up for study are substitute materials used in heating systems for basementless homes. Further study will be made as to the effort of introducing warm air into rooms at various levels and locations."

"...You've heard about the old saying, 'Give 'til it hurts.' That's what builders are trying to do for GI's in Korea. Members of the New Jersey Homes Builders' Association at Camden have pitched in together on a Blood Donor's Program. Members contribute regularly for our fighting forces in Korea. Blood donations are now organized as part of the Home Builders 1951 program in Camden."

"...Let's take a fast Cook's tour around the country on the housing situation: Here are signs of our times—renters, particularly veterans, are becoming home buyers in ever increasing numbers. Observers say the trend is the result of families wanting to be settled in these unsettled times. For example, in Atlanta, Ga., some apartments are going begging while prospective home buyers swamp new housing subdivisions."

"...Here is good news for veterans: any veteran who purchased a lot for building prior to October 12, 1950, (the date Regulation X became effective) is now exempt from credit restrictions imposed on GI loans. However, the Veterans Administration says he must show evidence of intentions to build, such as the hiring of an architect, or negotiating with a contractor, prior to October 12. For more information, contact the local VA office."

That's all for today on the home front. Tune in again to this same station for "five minutes of the latest news about housing."

That's Public Relations In Action!
Avery Mays Gets Dallas Trophy for Civic Service

The first annual Hugh Prather award to the Dallas builder who has performed the most outstanding civic services was won by Avery Mays, 1949 president and charter member of the Home Builders Association of Dallas. The award was presented at recent association banquet in the Dallas Athletic club which also featured installation of 1951 officers, headed by President Roland Pelt.

In presenting the trophy, B. Hicks Majors, one of the judges, said that Mays participates in nearly every civic movement in Oak Cliff, where he lives with his wife and two children. He is vice president of the Oak Cliff chamber of commerce, head of the civilian defense committee, a director of the YMCA, past president of the Kiwanis club, a Boy Scout official and the leader in Red Cross and Community Chest drives. He is serving his second term on the Dallas board of education.

The trophy was donated in honor of Hugh Prather, a Dallas land developer who organized and was first president of the Dallas association.

New officers installed, in addition to Pelt, were Charles R. Tips, vice president; Lacy R. Keele, secretary; and Wilson H. Brown, treasurer. Grover A. Godfrey is executive vice president and John J. Foley, field secretary.

CIVIC SERVICE award of the Dallas Home Builders Association is presented to Avery Mays, right, by B. Hicks Majors, a member of the group’s panel of judges.

New Albany Officers Installed

AT INSTALLATION dinner of Home Builders Association of Albany, N.Y., Inc., are (from left) Leo P. Byrnes, newly-elected president; William J. Tobin, principal speaker, director of chapter relations for NAHB; Frederick H. Sheldon, program chairman; and John J. Murray, of the Common Council of Albany. Other association officers, not shown in picture, are James A. Rooney and Frank B. Mullellan, vice presidents; Sidney A. Friedman, secretary; and John J. Cunningham, treasurer. Joseph F. Deegan is executive director.

Westchester Leader for 2nd Term

MORE THAN 300 persons attended annual dinner-dance of Home Builders Association of Westchester at the Gramatun Hotel, Bronxville, N.Y., where Frank P. Tufoe (center) was installed as president for second year. Othetrs (from left) are J. Raymond McGovern, New York state controller; Thomas P. Coogan, 1950 president of the National Association of Home Builders; Rep. Ralph W. Gwinn of New York; and Harold M. Clay, district director, Federal Housing Administration. James E. Cook served as chairman for the program.

A Pre-Convention Party


Unit Heater Officers

Recently reelected to lead the Industrial Unit Heater Association were: president, J. C. Patterson; vice president, H. S. Wheller; treasurer, L. O. Monroe.
THREE PROMINENT BUILDERS FIND THIS TO BE TRUE

"Equipped every one of our units with a Westinghouse Dishwasher, Waste-Away Food Waste Disposer, Rancho Range, Refrigerator, Laundromat and Dryer... have a long waiting list... people were enthusiastic in their praise for Westinghouse Equipment."

Duenke Construction Co. Harry A. Cotton, Vice Pres.

"Installed Westinghouse Dishwashers in 300 homes. Plans are projecting on installing the same appliances in approximately another thousand units. We have absolute confidence in Westinghouse, and their performance has made them acceptable to our customers."


"Equipment being installed in some 300 houses are Westinghouse Dishwashers, Waste-Aways, Laundromats, Dryers, Refrigerators and Ranges. We selected Westinghouse because we felt this equipment was the best. Public acceptance of this equipment in the houses has exceeded expectations."


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

WESTINGHOUSE ELECTRIC CORPORATION
Electric Appliance Division • Mansfield, Ohio
Please send me your 1951 Appliance Catalog

Name:
Address:
City State

APRIL 1951
THE MOST INSULATING EFFICIENCY
IN THE SMALLEST PACKAGE!

Reynolds Aluminum
Reflective Insulation

With just a 15-lb. package under each arm you’ve got 500 square feet of high-efficiency insulation, ready to tack or staple in place (250 sq. ft. to the roll; 25”, 33” and 36” widths). And you’ve got a vapor barrier that rates top of the list in the National Bureau of Standards Report BMS63. All at extremely low cost!

This aluminum reflects up to 95% of radiant heat...away from the house in summer, back into the house in winter.

It’s aluminum foil mounted to both sides (Type B) or one side (Type C) of tough kraft paper. Pressure-embossed in attractive design for extra solidity...clean, pliable, easy to cut and handle.

Type B is the ideal insulation and vapor barrier under floor joists over unheated crawl spaces. It divides stud space in side walls to provide two reflective faced air spaces. Excellent over ceiling joists or under rafters. Especially important under new FHA vapor barrier requirements. Mail coupon for full details. Reynolds Metals Company, Building Products Division, Louisville 1, Ky.

Aluminum is required for planes and other military needs. Reynolds Aluminum Reflective Insulation is still produced, but the total supply is necessarily reduced. Keep asking your dealer.

Wood siding and frame, uninsulated
- overall heat loss 0.25 BTU/hr/°F.

One layer of single-faced foil
- overall heat loss 0.18 BTU/hr/°F.

One layer double-faced foil insulation
- overall heat loss 0.13 BTU/hr/°F.

Check and Mail this Coupon NOW!

REYNOLDS ALUMINUM

Please send full information on your
[ ] Reflective Insulation [ ] Nails
[ ] Farm Roofing and Siding [ ] Windows

Name ___________________________
Address ________________________
Readers Comment on American Builder's Reply to Foley Criticism

A letter from HHFA Administrator Raymond M. Foley, criticizing the American Builder editorial on page 107 of the December issue, was reproduced with Editor E. G. Gavin's reply on pages 102 and 103 of the February issue. The following columns contain a few of the letters from readers who commented on the exchange of correspondence. Surprising though it may seem, not one letter was received from anyone who disagreed with the points in the December editorial or with Mr. Gavin's reply to Mr. Foley. For obvious reasons names and addresses have been deleted from these letters, originals of which are on file in the American Builder editorial offices.

Sir: It is extremely rare that I am moved strongly enough to write editors and similar men letters to express my personal views whether in accord or opposed to theirs. Perhaps men like myself should do it more often, but there is a reluctance to be in the limelight. However, I cannot but tell you how highly I think of your splendid reply to Mr. Raymond M. Foley as published in your February issue of American Builder. This bit of correspondence should be published in every truly American newspaper in the land. The people must wake up—and fast—to the conditions being imposed on them under the guise and threat of an alleged emergency. I am looking beyond "Regulation X," and see in your letter a reply to the whole Washington Administration. If I am not wrong in this may I say: "All power to your pen!" I hope all your subscribers and thousands of others read your letters and see the light soon if they haven't already done so.

Architect
Minnesota

Sir: Your reply to Raymond M. Foley, pages 102-103, February American Builder, makes most heartening reading. Also editorial "Need more housing—not less." Keep up the good work, as such is badly needed to combat present trend, to which there is much opposition, but unorganized, and writings such as yours offer hope that perhaps, in the not too distant future, the American people will realize what is happening to them.

Builder
North Carolina

Sir: Re your reply to Mr. Foley. Let me thank you for your straight-forward reply and the deep thoughts that motivated the same. What I want to know is, how much more are we going to stand for the actions of this motley group of Internationalists who are selling us "down the river?" Ulterior motives? That's putting it mild.

Builder
New Jersey

Sir: Just a note to compliment you on your well worded reply to the letter you received from Mr. Foley as outlined in the February issue of your excellent publication. The thoughts expressed in your reply certainly accurately reflect what's in the minds of most Americans these days. It certainly would be a real pleasure to have you stop and visit our plants and office any time you are down through Indiana.

Manufacturer
Indiana

Sir: I have just finished reading pages 102 and 103 of the current issue of the American Builder which comprises Foley's letter to you and your reply. Your original editorial (Continued on Page 250)

Sir: I wish to commend you on your masterful reply to Mr. Foley, HHFA administrator. I have been in full accord with your views since first reading your editorials, and wish this country had more fearless men with vision, foresight and courage to voice their convictions. Doubtless many, like myself, wonder what is happening to our country. Too many Americans take the utterances emanating from high government sources as sacrosanct and swallow the bitter pill without question. We have been led down the road to socialism and a welfare state to such an extent that the people's initiative and ambition have been dulled and many are now content to accept handouts from social security or unemployment relief rather than do an honest day's work. More power to you in your fight for the things America believes in.

Builder
Tennessee

Sir: Your reply to Raymond M. Foley, pages 102-103, February American Builder, makes most heartening reading. Also editorial "Need more housing—not less." Keep up the good work, as such is badly needed to combat present trend, to which there is much opposition, but unorganized, and writings such as yours offer hope that perhaps, in the not too distant future, the American people will realize what is happening to them.

Builder
North Carolina

Sir: Your reply to Raymond M. Foley, pages 102-103, February American Builder, makes most heartening reading. Also editorial "Need more housing—not less." Keep up the good work, as such is badly needed to combat present trend, to which there is much opposition, but unorganized, and writings such as yours offer hope that perhaps, in the not too distant future, the American people will realize what is happening to them.

Builder
Tennessee
What’s the BIG MARKET IN ’51?

6 low cost ways to REMODEL THIS SPRING

1. BUILD A SWEETHEART ROOM. Of the look and feel of this room you think? It's one of the most popular plans for young couples today. It will cost you just $500 to build and it's equipped with every modern convenience, including a fireplace, built-in bookcases, and a private bath. You can get the plans from your local builder.

2. BATH WITH LAVATORY TUB. This attractive bath features a combination tub and lavatory, saving valuable floor space. It's easy to build and can be installed in any room of your choice. Visit your local builder for the complete plan.

3. BUILT-IN KITCHEN CABINETS. Add value and convenience to your home with these built-in cabinets. They're easy to install and offer a large storage capacity. Visit your local builder for more information.

4. SCREENED IN PORCH. This inviting porch provides a perfect spot for relaxing and enjoying the outdoors. It's easy to build and can be customized to fit your home's style. Visit your local builder for the plans.

5. LIVING ROOM ADDITION. This addition will give your home more living space and increase its overall value. It's easy to build and can be designed to match your existing home. Visit your local builder for the plans.

6. MASTER BEDROOM SUITE. Add luxury and privacy to your home with this master bedroom suite. It includes a large bedroom, ensuite bathroom, and walk-in closet. Visit your local builder for the plans.

NATIONAL GYPSUM COMPANY

Fireproof Wallboards, Decorative Insulation Boards, Lath, Plaster, Lime, Sheathing, Wall

AMERICAN BUILDER
...REMODELING!

Who's helping you get the big share?...GOLD BOND!

the Gold Bond way!

1. Make the girls' bathroom a little more gay to build. New Gold Bond Gypsum Rock Wool Insulation is used in the walls and ceilings before mauling up the panels of Standard Gold Bond Gypsum Wallboard.


3. It's easy to sell Gold Bond Gypsum Wallboard to everyone in your town! The new move takes form his shape. Devon with Gold Bond Hammer Dayton Color Tint in one of 8 new decorator's styles.

4. New mold — a beautiful window pane made in your own garage...at the low cost of wallboard! New Gold Bond Gypsum Rock Wool comes in 8 stunning finishes. Know the, Bob Watson, and Blushball Watson.

5. You are the children's delight — and your own. The new panel — a beautiful window pane made in your own garage...at the low cost of wallboard! New Gold Bond Gypsum Rock Wool comes in 8 stunning finishes. Know the, Bob Watson, and Blushball Watson.

6. You're done right — and your own. The new panel — a beautiful window pane made in your own garage...at the low cost of wallboard! New Gold Bond Gypsum Rock Wool comes in 8 stunning finishes. Know the, Bob Watson, and Blushball Watson.

7. You're done right — and your own. The new panel — a beautiful window pane made in your own garage...at the low cost of wallboard! New Gold Bond Gypsum Rock Wool comes in 8 stunning finishes. Know the, Bob Watson, and Blushball Watson.

8. You're done right — and your own. The new panel — a beautiful window pane made in your own garage...at the low cost of wallboard! New Gold Bond Gypsum Rock Wool comes in 8 stunning finishes. Know the, Bob Watson, and Blushball Watson.

THESE two ads (at left) mean business...for you! Take a look at them. Notice the strong low-cost appeal. Check the many remodeling ideas they give—using Gold Bond Wallboards and Grainboards, Rock Wool Insulation and Paints. They'll appear in magazines having a total circulation of almost fourteen million readers! Half of these prospective clients live on farms...the other half in urban areas. So wherever you are, you'll get your share of the business that's sure to result!

You'll build or remodel better with Gold Bond

BUFFALO 2, NEW YORK

Paint, Color Texture, Rock Wool Insulation, Metal Lath and Sound Control Products.

APRIL 1951
New economies for Daylight Engineering

Now, a brand-new finish on Insulux Light-Directing Glass Blocks virtually eliminates post-construction cleaning expense! Even the hardest, dried-on mortar rubs off quickly and easily. No longer is it necessary for costly, time-consuming cleaning to take such a large part of your installation dollar.

Important as this plus feature is, it's only incidental when compared to the lifelong advantages an Insulux Fenestration System installed on Daylight Engineering principles gives to any building. Supplies of the new block and all of the materials needed for fast installation are non-critical and immediately available.

The knowledge and experience of a Daylight Engineer is at your service. Just call or write: Daylight Engineering Laboratory, Dept. A.B. 4 Box 1053, Toledo 1, Ohio. Insulux Division, American Structural Products Company, subsidiary of Owens-Illinois Glass Co.
On and Off the Record
News, Views and Comments

HARRY F. BYRD—The Virginia senator recently said for the record, "While insolvency from deficit-financed Federal programs which stifle individual initiative and private enterprise will be the overpowering force behind our capitulation to socialism, if that is to be our fate, evil loves company."

EVIL COMPANIONS—"The evil companions of this unbridled deficit ogre," continued the Senator, "are: (1) Confiscatory taxation; (2) Government competition with private enterprise; (3) Federal usurpation of State and local prerogatives; (4) Government invasion of private privileges; and (5) disregard of constitutional processes."

NOTHING NEW—The Senator said nothing new. But he did point up the evil of socialism and back it with the authority of a statesman.

RUSSIA—"For a moment I thought I was in Russia," J. J. Melniker, president of the New York Furniture Exchange, is reported to have said when he received the following telegram from the Federal commissioner of public buildings.

THE TELEGRAM—"Decision has been reached that the United States will acquire title to the New York Furniture Exchange. . . . The United States will resort to condemnation proceedings if necessary. Please advise best figure for which you will offer said property to United States for cash in order to avoid acquisition by condemnation." The building was to be taken for Voice of America.

WHAT NEXT?—Is it inconceivable that some settled section declared to be a defense area will not be visited by telegrams to home owners ordering them to sell "voluntarily" or undergo condemnation proceedings so that their homes can be turned over to cash in order to avoid acquisition by condemnation? It could be that some bureaucrats are already in a frame of mind in which they deem themselves to be commissars, and are only waiting for complete abandonment of constitutional rights.

HERBERT HOOVER—Recently he said, "At the time our ancestors were proclaiming that the Creator has endowed all mankind with rights of freedom as a child of God, with a free will, there was being proclaimed by Karl Marx a satanic philosophy of agnosticism and that the rights of man came from the state. The greatness of America comes from one philosophy, the despair of Europe from the other."

CONVENTIONS—The big convention season of 1951 is about over. Almost without exception convention managers and program directors included at least one speaker who spent his time adjuring business men to awaken to the need for protecting their individual liberties. Without any exception all of these speakers were acclaimed vociferously. The audiences were moved, and fired with determination to go back home and make their government a personal business.

THE QUESTION—How many of them did anything about it?

THE ANSWER—Unfortunately, the answer probably is that less than one tenth of one per cent did anything at all. Best intentions, but once away from the magic of the speakers it proves too easy to succumb to the lure of pleasure. In the meantime socialism marches on.

TOP QUESTION—It still is "How many housing starts in 1951?" The prognosticators still stick to their original estimates. They vary from 400,000 to 900,000. Most of them stay with the HHFA figure, 800,000 to 850,000.

STRAW—Small builders who normally construct from 12 to 20 houses a year report inquiries stronger than in any year. They are figuring from 20 to 40 percent more plans.

YOUNG COUPLES—Demand seems on the increase among young couples. Although prices are up, and the prospects know it, they are unwilling to sacrifice size or quality. Most of them want the builder to omit many things the young husband believes he can finish or add later.

THE BUILDERS—Most of these small custom builders report no great concern over the restrictions issued at the end of February. Plywood is the big exception, and there is a grave doubt about builders' hardware in the closing months of the year.

USED HOUSES—One of the reasons for the increased interest in new houses is reported to be the inflated prices of used houses. In some communities used houses cost more than building comparable new ones.

Karl Marx a satanic philosophy of agnosticism and that the rights of man came from the state. The greatness of America comes from one philosophy, the despair of Europe from the other."
ABOVE is the Brookchester development at New Milford, N. J., where 2000 Servels are being installed. Another 2000 Servels are being installed in the modern garden apartments at Richfield Village, Clifton, N. J.

LEFT: New Servel Gas Refrigerator in a typical kitchen of a 3-room apartment at Richfield Village and Brookchester,
NEW JERSEY'S TWO LARGEST, MODERN PROJECTS TO USE SERVELS EXCLUSIVELY

When builder Joseph J. Brunetti ordered 2000 Servels for each of his new Brookchester and Richfield Village developments, it was the largest single refrigerator order ever placed in New Jersey.

Servel was chosen for many reasons. Its year-in, year-out dependability...handsome design...famous silence—and particularly because of its remarkably low maintenance cost. This rock-bottom cost of upkeep has been proved time and time again in multiple-housing projects all over the country. It is the result of Servel's basically different principle of operation...its motorless freezing system. Just a tiny gas flame does all the work. There are no moving parts to wear, grow noisy, require replacement. That's why only Servel stays silent, lasts longer...provides year after year of matchless efficiency and worry-free service.

For full details consult Sweet's catalogue or write to Servel, Inc., Dept. E-13, Evansville 20, Ind.
Residential Ventilation

VENTILATION today performs an essential and accepted function in the modern residence whether house or apartment. It adds to the comfort of living by providing proper rest and relaxation. Night air cooling by attic and window fans, and basement ventilation are some of the methods proved successful and discussed in detail in this article.

Night air cooling consists of drawing into the home large quantities of cool night air and exhausting the hot daytime air accumulated inside. This air movement tends to balance the inside temperature with that of the outside. Night cooling began with the use of properly designed attic fans. These fans drew air from other rooms in the house and exhausted it from the attic. Attic systems are popular—especially in new construction.

Attic Ventilation

Wide differences in the type of houses in northern and southern climates must be noted in considering attic installations. In houses with finished or sealed attics, the fan may discharge through an existing window or an opening provided for this purpose. Such openings may be either in an end wall or in a dormer in the sloping portion of the roof. In either case the air is discharged directly to the outside with the attic acting as the plenum chamber. The fan should be protected from the weather by either louvres or a rain hood.

In houses with flat roofs, a penthouse or cupola connected directly to the finished ceiling opening by an air shaft should be provided.

In southern climates the majority of houses have unfinished attic spaces. The fan is then located near the ceiling (Continued on page 50)
NEVER Ventilate a Ceiling or Wall Space to the Inside...

If you do, the better the insulation, the worse will be the condensation; for the colder the air in the space between insulation and roof, or walls, the less vapor can it support.

In new construction, thousands of tons of cement and plaster are evaporating. Vapor flows from areas of greater density into this small, cold space, an area of less vapor density and small capacity.

Multiple sheets of accordion aluminum, because impervious to vapor, force out through exterior walls and roofs, ordinary amounts of fortuitous vapor formed from rain leaks, etc. With unusual amounts of vapor, as from crowds, in theatres, schools, stores, etc. provision should also be made to vent this vapor to the outside.

In the illustration, an actual case, it was recommended that the inner vents above the insulation be eliminated. More details about this frequent error and other data on vapor flow and condensation sent on request.

Three-sheet accordion aluminum, permanently separated by fiber partitions, is commercially available as Type 6 Infra, and costs less than 9¢ sq. ft., material with labor, installed between wood joists in new construction.


THERMAL FACTORS, TYPE 6 INFRA

- Down-Heat $C.044$, $R.22.72$ equals 7½" DRY Rockwool
- Up-Heat $C.080$, $R.12.50$ equals 4" DRY Rockwool
- Wall-Heat $C.073$, $R.13.69$ equals 4½" DRY Rockwool

VAPOR PERMEABILITY equals ZERO

INFRA INSULATION, INC.
10 Murray Street, New York, N. Y.
Telephone: CORtlandt 7-3833

APRIL 1951

INFRA INSULATION, INC.
10 Murray Street, New York, N. Y. Dept. B-4
Please send "Simplified Physics of Vapor and Thermal Insulation."

Name: ___________________________
Firm: ___________________________
Address: ________________________

☐ Send Prices of Infra Insulations  ☐ Send Sample
opening and discharges into the attic space and on to the outside through properly located and sized openings. These two types of houses cover generally the problems met in attic fan installations in the south and north. However, there are times when the fan must be located in a basement or an adjoining garage wall.

**Location of Ventilating Unit**

Fans which exhaust directly to the outside should be located so that they discharge with—and not against—the prevailing wind.

Fans which exhaust into the attic from a space below should be located over a central hallway, distant as possible from all the rooms to be cooled. Where no hallway is available, the same principle should be applied in locating a fan over a room below. The fan discharge should be kept as far as possible from adjacent walls, chimneys, etc.

**Characteristics of Fan Unit**

The fan should have quiet-operating characteristics. It should be either belt-driven or direct-connected. It should be mounted in a substantial frame and equipped with a resilient-mounted motor or other form of shock-absorbing construction.

Some resistance to air flow will always be present in attic ventilating systems. The resistance against which a fan must operate is determined largely by the size of its air intakes and the exhaust openings installed. The minimum opening sizes required may be obtained from the Propeller Fan Manufacturers' Association guide. If smaller openings are used, the resistance to air flow increases and the volume of air handled is reduced accordingly. No exact figure can be set up for the number of air changes required. The rate of air change depends not only on the locality and climate but also on the individual preference of the user. All discharge openings should be covered with 1/2 inch hardware cloth to keep out birds and rodents. Insect screening is not recommended since it requires constant cleaning and increases the resistance to the system. Larger openings are (Continued on page 52)
Built-In Lighting Adds
A Distinctive Sales Feature

Living rooms...dining rooms, bedrooms and dens, for that matter...offer builders a challenge. How can you give them an air of distinction...something new...something different...features that will help sell your houses?

Let’s look at lighting...built-in lighting...valance lighting, for example. Here is a way to decorate walls with light...to add charm and distinction to rooms. Cove, cornice, recessed ceiling and pinhole spotlighting are other innovations.

All through the house you’ll find opportunities to put lighting to work...as a sales feature...as a worthy addition to the quality of your houses.

To help with your planning of lighting and other Electrical Living features, we’ve assembled practical, tested ideas...what to do, and how to do it...in our booklet..."Design Details for Electrical Living Homes." A copy is ready for you.

Better Homes Bureau
Dept. AB 4
Westinghouse Electric Corp.
P. O. Box 868, Pittsburgh 30, Pa.

Please send me a FREE copy of your book—"Design Details for Electrical Living Homes"—B-4671.

Name______________________________
Street_______________________________
City_________________Zone____State____
Residential Ventilation

(Continued from page 50)

desirable since the air velocity will be lower, resulting in a maximum quietness and air flow. Unless structural difficulties interfere, there should always be a number of discharge openings rather than one. If a number of openings are employed at different points of the compass, a head wind from any single direction has little effect on the fan performance. Vents in the ceiling of a porch whose roof forms a part of the attic space are particularly valuable since they discharge the air downward and are relatively free from the back pressure due to winds.

Fan Types—Installation

Fans which discharge horizontally are usually installed:
(1) In an outside wall if the attic is finished and tight. (2) On the attic floor with a plenum chamber if the attic is unfinished. (3) In a penthouse or cupola if the building has a flat roof with no attic space.

When a fan is installed in a plenum chamber, prefabricated plenum chambers will usually meet the requirements of the installation. They are normally the product of careful design and engineering on the part of a responsible manufacturer. Plenum chambers should be constructed of sound-deadening materials supported on a wood skeleton frame.

It is best to locate the fan one wheel diameter from the intake grille so that it is invisible from below and also to minimize the fan noise. If sound deadening material is provided between the fan casing and the plenum chamber, a canvas throat is needed. The top of the plenum chamber may be horizontal or may slope down from the fan. However, the cross section should not be reduced so that it causes resistance to air flow.

When an automatic shutter is installed over the ceiling opening, the vanes should turn toward the fan—in the same direction as the air flow. The fan case should be mounted either on rubber pads, springs, or on a sound isolating pad. The plenum chamber should be as airtight as possible to obtain the full benefit of the fan capacity.

Fans which discharge vertically are either installed on the attic floor or in penthouses or cupolas on buildings with flat roofs and no attic space. No plenum chamber is required since the fan is mounted directly over the ceiling opening. A sound isolating medium should be placed between the fan and supporting frame. An automatic shutter, a manually operated shutter, flap, trapdoor, etc., is generally employed to close the ceiling openings when the fan is not operating.

Data and illustrations furnished by the Propeller Fan Manufacturers’ Association, Detroit, Michigan.

How to Make a Handle for Hole Saw

An old, broken, saw handle can be easily and quickly converted for use with a keyhole saw blade as indicated in sketch. One end of handle is slotted to receive blade. Drill hole through slotted end and blade for bolt which is held in place by a wing nut. By loosening the wing nut, wood handle can be moved in upward, downward or straight position, and then held in the desired position by securing nut tightly.

—P. H. Merman, LaCrosse, Kas.
This well-known **NATIONAL** family of profit-producers is available for 1951 business

Whatever the size of the job or the requirements, there is a Cast Iron National Heat Extractor (steam or hot water) ready to fill the bill with utmost satisfaction. Over nine years of engineering research and development have provided these valued features—economical performance, long efficient life, compactness, smart appearance, easy convertibility to any fuel—which make National Heat Extractors so readily saleable and so highly acceptable to customers. Sizes range in Net I-B-R Ratings from 170 to 10,300 sq. ft. of steam and from 270 to 16,480 sq. ft. of water for hand or automatic firing. For year 'round domestic hot water, National Heat Extractors can be equipped with a tankless or storage type heater. Write for literature on National Heat Extractors, National Aero Conectors, National Art Radiators or other products of the Complete line of National Heating products.

**"100" series**—smart and compact for small home installations in kitchens, basements or utility rooms. Wet base construction.

**"200" series**—sturdy, dependable heating plant for medium to larger size homes or commercial buildings with equivalent heating needs.

**"300" series**—superbly efficient plant for homes, apartments and commercial buildings where heating needs are beyond those of average size.

**"400" series**—for large buildings and institutions. Big in performance, small in streamlined proportion—provides economy and efficiency in big boiler operation.

**"500" series**—high capacity for the largest heating jobs—schools, hospitals, apartments and hotels. “Twin Sections” for easy installation without major structural alterations.

**EASILY CONVERTED TO AUTOMATIC FIRING IF INSTALLED AS A HAND FIRED UNIT**

**NATIONAL AERO CONVECTORS**

Constructed of enduring cast iron, they tuck away beneath windows or in convenient recesses and blanket room with a perfect balance of convected and radiant heat. Cast Iron National Art Radiators for free standing or semi-recessed installations are also famous for effective heat distribution.
BIG MILL
Production!

Our national emergency calls for dependable production... Big mill operation! That's why your dealer will find Crossett a reliable source for pine and hardwood structural material. Since 1899, Crossett has been delivering quality wood products to the building trades of America, and because of its sound forestry practices, forest reserves have been systematically increased so that a perpetual supply of big mill quality products is assured. Couple this working forest reserve with big mill quality production—and your answer is Crossett for quality lumber through your favorite dealer!

*Wolmanized® Treated
Lumber and Timber

Arkansas Soft Pine
Satin-like Interior
Trim

Nail-Holding
Dimension

Royal Oak Flooring

Center and End
Matched Sheathing

Hardwood
Trim and Lumber


On What Shall Your Favorite Dealer Quote?

CROSSETT LUMBER COMPANY
CROSSETT, ARKANSAS

TECHNICAL GUIDE
for Builders and Craftsmen

How to Make Square Cuts
Without Measuring

After tar paper, roll roofing, linoleum or paper are partially unrolled, a perfect cut can be made with little effort. Place the roll against a sawhorse or stepladder, and then take a straight 2x4 and hold it firmly against the roll as shown in the drawing. Take a sharp knife and cut along the edge of the 2x4. The cut will always be square.—Herbert E. Fey, New Braunfels, Texas.

How to Use Guide for Setting Corner Beads

This time-saving guide for setting metal corner beads at the intersection of plaster walls can be quickly made from a scrap 1x6x10 or 12 inch piece. A portion of the inside face of scrap piece is angled to receive bead as indicated in drawing. The ends of the inside face remain parallel with the outside face and are placed against the lath. In this manner the metal corner bead is held in proper position to receive the plaster. The guide is moved up and down on the bead for the height of the wall for nailing.—Karl E. Carlson, Narrowsburg, N. Y.
Balanced
to take the drudgery out of ALL DAY SA WING...

Escape "4 o'clock droop" . . . use the saw that lets you do heavy sawing hour after hour . . . without tiring strain!

SPEEDMATIC is "balanced when you lift it." Grip is directly over the center of gravity . . . only one hand needed to hold the saw in a balanced, natural cutting position.

SPEEDMATIC is "balanced while you run it." There's no powerful torque reaction or jerk to the side when you press the trigger . . . none of the twisting forces that strain your wrist or forearm when starting to cut. While cutting, the SPEEDMATIC always rests on the main piece . . . at the finish of cut-offs it doesn't suddenly nose dive, forcing you to lift it hundreds of times a day.

All in all, SPEEDMATIC'S Balance means more and faster sawing per hour . . . less fatigue at the end of a big day's work. See for yourself — use a SPEEDMATIC on your next job.

APRIL 1951

Model K-75
7½" blade — 2½" cut
3 larger sizes

Now...CARBIDE TIPPED Saw-Blades

For Formica, Masonite, Plywood, Asbestos-Cement board, Concrete-form Lumber, etc.
Stay Sharp 10 to 100 times longer. Savings in sharpening cast alone pay for this type of blade over and over. Outstanding speed and quality of cut on work ordinary blade can't handle. Sizes 6½", 7½", 8". Fit Speedmatic and Guild Saws, also other portables and saw tables with 5/8" arbor.
Write for full information about Speedmatic Saws and practical accessories that speed-up construction work.

PORTER-CABLE Machine Co.
7004 N. Salina St., Syracuse 8, N. Y.
In Canada write: Strongridge, Ltd., St. Catharines, Ont.
Manufacturers of Speedmatic and Guild Electric Tools
The Balanced Line
Increased Value with Increased Beauty

HAND FORGED QUALITY
A screen door grille achieves the appearance and feel of quality only through hand-working and welding of fine iron. Quality makes the difference in sales.

LOW COST
Your cost is kept low because of production line methods of manufacture and because we depend on volume sales at moderate prices. These prices range from $3.00 to $65.00.

STOCK SIZES FIT ALL DOORS
Grilles are available in stock sizes for single panel, two panel, and combination storm doors. All are finished in gleaming white enamel, in original and graceful designs.

Get Coffman Grilles, porch posts and stock railings from your Building Supply Dealers. They are easy to buy, easy to install. Write for illustrated folder and price list.

R. G. Coffman Co., Inc.
ORLANDO  P. O. Box 1113  FLORIDA

How to Make Chimney Repairs With Safety

When chimney repairs are necessary, the scaffold for doing the work may be easily made from ordinary lumber which is not too heavy in weight or too hard to work. With the device shown in the sketch, access to all four sides of chimney is possible.—Arthur N. Nelson, Kansas City, Mo.

How to Duplicate Patterns Quickly

Time is saved by cutting patterns with straight sides on table saw. A 2x4 is cut out as shown and clamped to fence so work will slide under. The fence is then adjusted so saw blade is flush with outer edge of 2x4. In use the pattern is simply tacked to the work and the latter run across the saw. The work must not extend more than a few inches all around the pattern so as not to interfere with fence.—Herbert E. Fey, New Braunfels, Texas.

How to Determine Rafter Cuts by Sighting

For the novice who is not familiar with the standard method of determining the pitch of roof rafters and how to cut them, the sight method shown in sketch will suffice.

Tack rafter marked D on end of building to be roofed. Set it to the pitch that is preferred. If the rafter is to conform to the pitch of some other building put D parallel to E. Plumb down on a center line. Draw line flush with siding. Level a line G about 1½ inch up.—M. J. Highland, Lansing, Ill.
Doors just COAST into place

With Stanley rolling or sliding DOOR HARDWARE

Doors coast quickly, quietly—at the touch of a hand—when equipped with Stanley Rolling or Sliding Door Hardware. Stanley Track is straight as a die—hangers are carried inside—fully protected from weather and dirt. Stanley Hangers have ball bearing swivels and roller bearing wheels. Two way adjusting nuts assure exact hanging. "Hold-Fast" Track Brackets keep tracks rigid—in perfect alignment at each suspension point.

For all doors up to 1000 lbs.

Easy to install, Stanley Track and Hangers are used extensively on all types of garages, barns, industrial and commercial buildings. Every possible combination of track bracket for double and triple door sets can be furnished. Any length of track needed can be assembled, curved pieces supplied in 90° turns, others to order. For carefree doors . . . lasting client satisfaction, install Stanley Rolling or Sliding Door Hardware.

THE STANLEY WORKS • NEW BRITAIN, CONNECTICUT

X2641 Track for doors up to 350 lbs. Hangers to match.

Y2641 Track for doors up to 700 lbs. Hangers to match.

W2641 Track for doors up to 1000 lbs. Hangers to match.
This is the kitchen of the home built by Weller Brothers for Mrs. Lloyd Gastian. Like so many other homemakers, she prefers an Electric Range, because it's so convenient and dependable.

During the past year, the Weller Brothers have built 20 custom-built houses, and nearly as many more on a speculative basis. The one shown at left includes, with its other electrical conveniences, an automatic Electric Range.

"Whenever possible, our homes include Electric Ranges along with other electrical equipment, under a package mortgage plan," says Mr. Weller. "We find sales much easier that way, and the customer is satisfied not only when he moves in, but remains that way for years."

Electric range cooking is a real selling feature, because it's clean, cool, economical and fully automatic.

Are you giving your home buyers what they want—automatic Electric Ranges?

"ELECTRIC RANGES keep customers sold," says builder

BOB WELLER of Battle Creek, Mich.

"EQUIP YOUR HOUSES WITH ELECTRIC RANGES"
PREPAREDATION gained in 1950. The Prefabricated Home Manufacturers Institute reports that the industry, association members and all others, shipped 55,000 homes as against 35,000 in 1949.

INSTITUTE members shipped 35,000 of the 55,000 total in 1950. That's an increase of 130 per cent over 1949.

TWO FIRMS alone accounted for nearly 18,000 of the 55,000 total for the past year. These are Ginnison Homes, Inc., with nearly 8,000 houses, and National Homes Corp. with an announced shipment of 9,857.

TWELVE COMPANIES shipped over 500 units, and six of these shipped more than 1,000.

THE TWO LEADING prefabricators in point of volume exceeded the total of the nation's leading site builder.

STARTS for all kinds of housing were estimated at 1,400,000 for 1950. If these represent finishes also, then prefabrication accounted for about four per cent of the total for the year. It is interesting to note that while total starts in 1950 exceeded total starts for 1949 by 36 per cent, shipments of prefabricated units chalked a gain of 60 per cent.

LEGISLATIVE COMMITTEE of Chicago Metropolitan Home Builders has recommended to the Board of Directors that a license law for home builders in Illinois be introduced into the General Assembly.

LAW WOULD PROVIDE that individuals and organizations in business on June 30, 1951 be granted licenses on submission of certain proof of integrity and experience without examination.

BILL ALSO REQUIRES each licensee to conduct business only under name on license, to keep certain records, and to give each customer or purchaser, on written request, a copy of any written agreement together with plans and specifications.

HOUSES WITH BASEMENTS, particularly in the east and middle west, traditionally have been provided with outside entrances. Since the war, many if not most designs eliminate such an entrance.

ORDINARILY such an entrance is a door placed in an opening in the (Continued on page 61)
A brief, timely message to the Builders of America from the president of the Ludman Corporation.

Now, Ludman Corporation offers you patented Auto-Lok operation in an incomparable wood window. Produced from the finest, most carefully selected and treated wood available. Restrictions need not deprive your job of Auto-Lok performance. Auto-Lok Awning Windows in Wood are now ready to serve the builders of America at a time when window problems are most acute.

**WOOD or ALUMINUM, ONLY AUTO-LOK GIVES YOU ALL THESE ADVANTAGES:**

- "That Plus Factor" that makes for satisfied customers.
- Keeps out April Showers, lets air in!
- Patented "Delayed Action Opening" permits fully controlled ventilation.
- Cleaning the outside from the inside.
- Eliminates uncomfortable "cold spots" around windows.
- Sealed protection against all climatic extremes.
- Interchangeable inside screens and storm sash.
- Proven dependability of Auto-Lok's patented adjustment-free, precision-balanced hardware.

**LUDMAN CORPORATION**

P.O. Box 4541 Miami, Florida

**THE TIGHTEST CLOSING WINDOW EVER MADE**

Consult SWEET's and write for free folder, "What Is Important in a Window?" Address of nearest distributor will also be furnished: Just write to Dept. AB-4
foundation wall. The door is reached from the outside by concrete steps cast as a part of a concrete well. As a protection against snow and driving rain the well is enclosed with a sloping one- or two-door hatchway—wood or steel.

**SINCE THE WAR,** many small homes with full or partial basements have not been equipped with outside access to the basement. And many of them have the inside stairway to the basement located at or near the center of the house. That means tracking through some part of the house to get from the outside to the basement.

**REASONS** generally advanced for eliminating outside access to the basement are economy and appearance.

**FOR THE SAKE** of argument American Builder will take the stand that as to appearance a neatly constructed and well located outside hatchway does not detract from the appearance of the outside of the house. This is particularly true with the use of a recently introduced line of steel hatchways currently being produced by at least one manufacturer. They are attractive, quickly installed, and can add to rather than detract from appearance of the house.

**THE QUESTION** of cost is at least a debatable one. In the first place, there is a little concrete saved by leaving an opening for the door in the foundation wall. It is possible that this may be offset by the need for forming the door opening. Either way, the element is small.

**THERE CERTAINLY** is added cost in framing and pouring the well and the stairway, and both the door in the wall, and the hatchway represent added cost factors. The total cost of these items might be $100.

**ONE BUILDER** who has gone back to providing outside access to the basement in all of his houses believes that other factors reduce or possibly negate these added cost factors. Currently, he is working on a study to determine just what the difference is either way.

**HE BELIEVES** that with the well and stairway from the outside to the basement he saves many hours of labor, since, without the outside access, workmen, during construction, have to spend a lot of time climbing up and down a ladder inside the house.

(Continued on page 63)

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**THE ANSWER TO THE NATION'S NEED . . .**

**for fast industrial extension**

---

**Build Quicker with Quonsets**

Ideal for factories, warehouses, machine shops or storage buildings

For additions to your present plant—or for new plants—Quonsets mean fast completion, economy of materials, adaptability to any use. Also, when plants need expansion, you can add Quonset to Quonset, according to the need.

Made of N.A.X. high-tensile steel, Quonsets provide non-combustible construction and permanence far surpassing less modern buildings. They require little upkeep—are easily maintained. Let Quonsets serve you.

**GREAT LAKES STEEL CORPORATION**

Stran-Steel Division, Ecorse, Detroit 29, Michigan

---

**Expansion Completed**

Additional Quonsets, with extensions and connecting arches, provide Spartan Aircraft Co. with a total of 35,800 sq. ft. of floor area.

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**NATIONAL STEEL CORPORATION**

Are you looking for sewer pipe that will give a lifetime of trouble-free service? Bermico is the answer.

Bermico is root-proof and corrosion-proof. It's unaffected by extreme cold or intense heat. Its joints will stay tight even if the ground settles unevenly underneath. And it delivers a smooth, dependable, high-capacity water flow.

Handling Bermico makes the job easier and less costly. It weighs far less than any other type of pipe and its convenient 8-foot lengths store more safely with far less breakage. Easily laid, too. A few hammer blows and joints are tight. No joining compound is needed.

Each length of Bermico must measure up to strict and unvarying engineering standards. That's why millions of feet of Bermico are now giving efficient service in house-to-sewer connections, septic tank disposal and drainage systems.

Get the full story on Bermico. Write today to Dept. AB-4.
EDITORS’
Round Table

(Continued from page 61)

SINCE POURING the basement floor is one of the last operations, everything that has to be carried into the basement—heating plant, piping and fittings, electrical conduit and wiring, oil storage tanks where oil is used for heating, plastering material where basement ceiling is to be plastered, must be carried through some part of the ground floor then lowered at considerable time and expense through the opening in the floor that later will be provided with inside stairs to the basement.

ADDED TO THIS is the fact that workmen have to make countless trips up and down the temporary ladder to the basement.

SAYS THE BUILDER, “I am sure that when I get all of this time and labor loss, not to mention the hazard to the workmen, totaled up, I’ll find that the outside well and stairway actually save me money in construction.

WELL, we don’t know the answer. We await the study with a good deal of interest. If the builder is right, eliminating the outside access to the basement on a basis of economy will be discredited.

THE CONVENIENCE factor for the owner is hardly debatable. Basement furniture, garden tools and many other items can be deposited in or removed from the basement much easier by working from the outside than from the inside, especially where the inside basement stairs are near the middle of the house.

ANOTHER BUILDER pointed out a fire hazard with only an inside stairway to the basement. With basements today used for much of the recreational and hobby shop activities of the family, and with basements frequently containing inflammable material or decorations, a basement quickly could be a fatal fire trap for members of the family or their guests.

OPS late in February was reported to be in a dilemma about a markup order for building materials. Questions were whether to use percentage of dollars and cents markups; allow a markup on increases in costs; what base period to use; whether to use transportation costs in base for markup; what to do about vendors selling for less than fair-trade prices set by manufacturers.

“YEAH?”

“You bet! I’m putting Master No-Draft Sash Balances like this in every window. They give the windows smooth metal tracks to run on, and their counter-balancing springs make windows easy to raise and lower. Think what a selling point this gives me, Joe: windows that always work right ... windows with no ropes to break, no pulleys to rust. But that isn’t all! These Master No-Draft Sash Balances weatherstrip the windows, too. That means they keep out dust, dirt, wind and water ... and cold, besides. What’s more, they cost less to install, because they don’t need pulleys, cords, weights or box-frames. And MAN ... you ought to see how easy they are to put in!”

MASTER NO-DRAFT SASH BALANCES ARE PRECISION-MADE of the finest, highly-tempered non-corrosive metal. They can’t rust. Springs are correctly-tensioned to give perfect balance of the upper and lower sash ... and easy, fingertip operation. These sash balances are made in a factory that’s recognized by the industry as outstanding for its efficiency and the craftsmanship of its workers.

SMOOTH OPERATION IS ASSURED by Master No-Draft Sash Balances, because they automatically adjust for shrinkage and expansion in the wood. Runways are completely metal-covered and require no painting. (Of course, cross-members should be installed). Double contact prevents rattle when windows are open.

USED BY THE U.S. GOVERNMENT AND PROMINENT BUILDERS all over the country, Master No-Draft Sash Balances make windows neat and weathertight—and there’s nothing to cause trouble. You can forget maintenance!

See Our Catalog in Sweet’s

MASTER METAL STRIP SERVICE, INC. 1720 N. Kilbourne Avenue, Chicago 39, Illinois
Please send me, without obligation, complete information about Master No-Draft Sash Balances.

Name:

Address:

City Zone State

APRIL 1951
"Sure, Joe; it's a defense Speed-up! Washington found out

EVERYTHING HINGES ON HAGER!"
HOW TO CUT BUILDING COSTS
Save Time, Save Labor

Use BOSTITCH Self-feeding HAMMERS

ONE-HAND OPERATION... other hand free to place and hold material.

ONE-BLOW PERFORMANCE... no continued hammering, each blow drives a staple home.

ARM-LENGTH REACH permits greater coverage from one position, saves time, cuts down staging.

SAFE — SANITARY. No mashed fingers, no infected mouths.

H4 "4 TIMES AS FAST as hammer and nails," reports users of the heavy-duty Bostitch H4 Stapling Hammer. Dependable, too — shingles fastened with the Bostitch H4 have survived hurricanes.

Roofing contractors, builders, makers of pre-fab houses and others in the building field agree that these hammers achieve tremendous savings. Among the many uses of the H4 are: applying metal lath to studding — applying corrugated paper to studding for installation of blown-type rock wool — applying felt covering for built-up tar and gravel roofs — laying shingles on side walls or roofs.

The H4 drives 3/4" staples made from 1/16" wire — equivalent to two 4" nails of 1/16" wire.


Drives 1/4" and 5/8" staples. Model H2B 1/4 drives 1/8" staples. Both H2B models contain more than twenty improvements in design and construction to provide continuous, trouble-free operation. Plated for rust resistance.

Gummed staples for H4 and H2B are available when extra holding power is required.

SEND TODAY for complete information on how to cut your building costs with Bostitch. Mail reply card below for further details, free demonstration. No obligation.

BOSTITCH, 558 Mechanic St., Westerly, Rhode Island

Please send me literature and prices on:

- [ ] H4 Heavy-Duty Stapling Hammer
- [ ] H2B Medium-Duty Stapling Hammer
- [ ] T5 Automatic Tackers

- Also arrange a demonstration as soon as possible.

NAME _________________________________ TITLE _________________________________

FIRM _________________________________

STREET _________________________________

CITY _________________________________ ZONE _________________________________ STATE _________________________________

Trademark BOSTITCH, Registered U.S. Patent Office and Foreign Countries.
One Hand BOSTITCH T5 Tacker
Drives Staples Within 1/16" of Inside Corners
Saves Time, Saves Money

A great cost-cutting aid! Bostitch T5 Tacker replaces tacking and light nailing in many types of building operations. Just press the lever and drive the staple... exactly where you want it... tight places, inside corners, along edges.

The spring-driven T5 Tacker drives staples from 1/8" up to 9/16" long. Gummed staples, like cement coated nails, are available for extra holding power.

Users report up to 50% saving when using the T5 for such jobs as applying metal lath, cornerite, insulation, ceiling panels, screens. Comes in three models to take ten staple sizes of various sized wires and leg lengths.

Why not investigate the Bostitch T5 Automatic Tacker now? Fill in the reply card and mail today for complete information.

REINFORCING CORNER of wooden frame is fast and accurate with the Bostitch T5 Tacker. Drives staple right where worker wants it.

INSTALLING FABRIC WINDOW PANCES is easy for the T5 Tacker. No other Tacker can place staples closer into the rabbet.

INSTALLING CEILING TILE in half the time of old-style methods is another achievement of the Bostitch T5 Tacker. One-hand operation — no finger marks — no marred edges.

ATTACHING SCREEN TO FRAMES is another T5 Tacker building application that saves time, saves money. Faster, neater, more secure.

BOSTITCH AND FASTER fastens it better with wire

ALL TYPES OF MACHINES FOR APPLYING STAPLES
ALL TYPES OF STAPLES APPLIED BY MACHINES

BOSTITCH
558 Mechanic Street
Westerly, Rhode Island
INSULITE Interior Finishes

Insulite decorative products for interior walls and ceilings are made from the regular structural insulating boards. Thus one material combines insulating value with attractive pre-finished decoration. That's double-duty in one application! Both Lusterlite Tileboard and Durolite Plank have an excellent T&G joint for easy, fast and secure concealed fastening with nails or staples.

DUROPLITE ¾" PLANK AND INTERIOR BOARD - a textured surface board predecorated with an exceptionally serviceable finish. It has amazing resistance to scuffing and abrasion. It's easy to clean—easy to repaint. Colors—scientifically selected for popular appeal: ivory, pale green and variegated woodtone.


Interior Board — THickness: ¾". Sizes: 4' x 6', 7', 8', 9', 10' and 12". Square edges.

DUROPLITE ¼" PLANK — the same product as ¾" Durolite but ¼" thick. Designed especially for application directly to wall framing spaced 16" o.c. Special concealed fastening joint. Vertical beading to simulate alternate 6" and 10" plank widths when applied. Colors: ivory, pale green and light woodtone. Size: 16" x 8".

LUSTERLITE ½" TILEBOARD AND INTERIOR BOARD — a smooth surface, predecorated to offer high light reflection when used on either walls or ceilings. The finish is durable, is readily cleaned and may be repainted. Colors: white and light ivory.

Decorative Tileboard— Thickness: ½". Sizes: 12" x 12", 16" x 16" and 16" x 32". Concealed fastening joint on all sides.

Interior Board — Thickness: ½". Sizes: 4' x 6', 7', 8', 9', 10" and 12". Square edges.

WELVITE ½" INTERIOR BOARD — is factory painted. The ivory-white textured surface offers a general purpose type of finish backed by years of popular acceptance. Easy to repaint. Thickness: ½". Sizes: 4' x 6', 7', 8', 9', 10' and 12". Square edges.

SMOOTHITE ½" INTERIOR BOARD — coated on one side with a smooth, light cream utility finish. No additional decoration is required but Smoothlite may be painted if desired. Thickness: ½" and nominal ¾" wallboard. Sizes: 4' x 6', 7', 8', 9', 10' and 12". Square edges.

FIBERLITE ¼" AND 3/4" ACOUSTICAL TILEBOARD — a special product for low cost, efficient acoustical correction. Made entirely from strong wood fibers, the sound controlling efficiency of Fiberlite is carefully retained. An oil base paint is sprayed on to avoid sealing the surface pores. And the textured finish resembles trellis vine. Color: white. Thickness: ¼" and ¾". Sizes: 12" x 12"; 16" x 16"; 16" x 32". Beveled butt edge joint on all sides. All bevels are painted.

INSULITE Hardboard Products

REGULAR HARDBOARD — Heavy density board. Golden oak brown color. Thicknesses: ¼", ½"; Sizes: 4' x 5', 6', 7', 8', 9', 10', 12'. Also ½" and ¾" thicknesses on 4' x 12'.

TEMPERED HARDBOARD — Extra heavy density hardboard with an integral black color. Thicknesses: ½", ¾", 1¼", 2½"; Sizes: 4' x 5', 6', 7', 8', 9', 10', 12'.

LEATHERITE HARDBOARD — Simulates rich Spanish grain leather with a deep brown color. Thickness: ¾"; Sizes: 4' x 6', 8', 12'.

REVERSIBLE HARDBOARD — Medium heavy density board. Golden oak brown color. Thicknesses: ¾", 1¼", 2¼"; Sizes: 4' x 5', 8', 12'.

PANELITE — Extra heavy density board with 4" squared tile pattern. Natural burl walnut color. Thickness: 1¼"; Sizes: 4' x 8', 12'.

UNDERLAYMENT—Medium heavy density; smooth one surface to receive floor finish. Used over existing floors, wood sub-flours or Graylite Wallboard in new construction where it is covered with linoleum, asphalt tile or carpeting. Thickness: ¾"; Sizes: 3' x 4' and 4' x 4'.

INSULITE Insulating Wool

Made of Fiberglass®

Insulite Insulating Wool is feather-light and extremely resilient. It stays put, doesn’t disintegrate and will not burn or rot — no loss of original high insulating efficiency. Batt and roll blankets are manufactured of Fiberglass pre-formed insulation. The inch, medium and thick insulation is enclosed in a paper envelope; one side is asphalt coated for high vapor resistance, the other side is perforated vapor-permeable paper. The papers form a nailing flange at the edge on both long sides. The economy roll blanket has an open back with vapor barrier and nailing flange on one side only.

ROLL BLANKETS

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<tr>
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BATT BLANKETS

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<th>Thickness</th>
<th>Width</th>
<th>Length</th>
<th>Pkg per pkg.</th>
<th>Sq. Ft. per pkg.</th>
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<td>24&quot;</td>
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<td>15&quot;</td>
<td>24&quot;</td>
<td>20</td>
<td>60</td>
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</tbody>
</table>

UTILITY BATS manufactured of Fiberglass pre-formed insulation. No paper covering either side. 4° nom. thickness, 15" x 104°. Package of 27 pieces covers 30 sq. ft.

POURING WOOL is Fiberglass pre-formed insulation modified to small pellets for pouring or hand packing. Packaged in bags of approximately 30 lbs. Each covers approx. 20 sq. ft. at 4° thickness.

*T.M. Reg. U.S. Pat. off. Made by Owens-Corning Fiberglas Corp. Insulite, Graylite, Lok-Joint Lath and Bildrite are registered trade marks. (Insulite) signifies that Minnesota and Ontario Paper Company is the source of the product.
120 Reasons why RUBEROID dealers are better served

One of the Ruberoid factory sales representatives shown on this map is located close to you. He’s ready to supply you with all the information, service and sales aids you need to help you build business and profits with Ruberoid Asphalt and Asbestos Roofing and Siding products.

Your Ruberoid salesman can help you boost business with such sales leaders as Ruberoid TITE-ONS, the original interlocking, wind-defying shingles... Ruberoid STONEWALL Board, one of the most universal building materials ever made, Asbestos-Cement Siding and a hundred other Ruberoid products.

Besides product leadership, Ruberoid offers you the support of a powerful advertising campaign in such magazines as Time, Good Housekeeping, Better Homes and Gardens, Country Gentlemen, Successful Farming, Farm Journal, Cappers', etc... and, in addition, Ruberoid is first in the roofing and asbestos siding fields with the Good Housekeeping Seal of Approval, for extra sales support.

Your Ruberoid salesman can offer you prompt, efficient service from one of Ruberoid’s eleven modern plants strategically located. For a bigger and better roofing and siding year, call your Ruberoid salesman now!
SKIL Saw—Model 77
7½" blade. Base adjustments: 0" to 2½" vertical depth of cut. 0° to 45° bevel adjustment. 1½" depth of cut at 45°. Handles scientifically placed for either one hand or two hand operation in any position. Overall length: 17¼"; weight: 15¼ lbs.

SKIL Saw—Model 825
8½" blade. Base adjustments: 0" to 2½" vertical depth of cut. 0° to 45° bevel adjustment. 2½" depth of cut at 45°. Withstands hard use in gang cutting. Overall length: 18"; weight: 17¼ lbs.

SKIL Saw—Model 127
12" blade. Base adjustments: 2½" to 4½" vertical depth of cut. 0° to 45° bevel adjustment. 3½" depth of cut at 45°. Most powerful and fastest cutting electric hand saw ever made. Overall length: 22"; weight: 34 lbs.
More than 63 acres of plywood! More than 776 miles of lumber! With this amount of lumber to cut, you just don’t risk any substitute for SKIL Saw precision and dependability.

Here 39 SKIL Saws were used; cutting deck forms, sheathing, shore posts, beams, headers, strong-backs, strips—hundreds of varied jobs requiring trouble-free performance, sure handling, portability, and power to keep the job moving ahead on schedule.

Few projects can compare in size to this 40 million dollar housing project—but large or small, you’ll find SKIL Saws will save hours of time and work. There’s a SKIL Saw to fit your job—10 models—each one perfectly balanced for easy handling, power-packed for accurate, fast performance on an almost unlimited variety of building materials. Call your nearby SKIL Distributor today for an on-the-job SKIL Saw demonstration.

SKIL Saws are job-proved for construction work, provide high-torque performance on an almost unlimited variety of building materials. With suitable blades, SKIL Saws cut or score wood, metal, stone, concrete and composition materials. Your SKIL Distributor will make recommendations for the right saw with the right blades for every job.

SKIL Products are made exclusively by SKILSAW, Inc.
5033 Elston Avenue, Chicago 30, Ill.
Branches in principal cities
In Canada: Skiltools, Ltd., 66 Portland Street, Toronto, Ont.
Everything but the

in Joe Lenny’s

Yet he was able to offer his houses—each equipped with General Electric Kitchen-Laundry—for only $9500

Builder J. P. Lenny of Runnemedi, N. J. had a strong conviction about selling houses.

He felt that it was most important to identify his “Cinderella” houses with quality.

And, he felt that the best and surest way to identify his houses with quality was to install kitchen and laundry equipment that housewives know is the finest obtainable.

So he contracted to equip every one of his "Cinderella" homes with a General Electric Kitchen-Laundry, and was still able to offer it for only $9500 under “Packaged Mortgage” terms.

Result: He sold out the entire first section of 55 homes one week end!

In the pictures on these pages you see Mr. Lenny talking with Mrs. Marie Breen of 156 Patricia Lane, who purchased one of his "Cinderella" houses last year. Her enthusiastic comments are typical of those of her neighbors.


Mrs. Breen says: "We’re so delighted with all our wonderful G-E appliances, and our friends are envious! I’m constantly amazed how many hours these G-E appliances save me, and it’s still hard for me to believe that they cost so little under the terms of our mortgage ... less than five dollars a month extra!"
glass slipper
"Cinderella" home!

"It's wonderful to stack dirty dishes in my G-E Dishwasher after guests have left late at night—and go right to bed!" says Mrs. Breen, "In the morning they're sparkling-clean, ready for service again!"

"How do I like my G-E Range? It's the finest range I ever owned. The temperature is so very even... and I never have a lopsided cake any more! Now my gravies, puddings and other baked foods come out just right. This G-E Range heats up so fast, too!"

"My G-E Clothes Washer saves me so much time, too. My rayon blouses and slips come out damp-dry... and I iron them immediately. I have two children and my G-E Clothes Washer is in service every day of the week!"

"I'm sure happy there's a General Electric Kitchen-Laundry in my home! So many of my friends who have become home owners recently, tell me they wish their new house had included all of this fine General Electric equipment."

You can put your confidence in—

GENERAL ELECTRIC
Your Market for G-E TEXTOLITE*  
Plastics Surfacing is Wide Open

Sell it for...Kitchen work surfaces • Sink tops • Bar surfaces • Restaurant booths • Dinette tables • Cocktail tables • Desk tops • Utility tables

Sales Appeal! Your customers won’t be hard to convince when you show them G-E Textolite is as pretty as it is practical. There’s some real sales ammunition in these features.

1. Beautiful and Easy on the Eyes. A variety of patterns and solid colors to harmonize with any decorative scheme. Special finish reduces glare, is restful to eyes.
2. Easy to Clean and Maintain. The fresh sparkle of G-E Textolite requires no maintenance. No sanding, polishing or refinishing needed. Smooth, lustrous surfacing wipes clean easily with a damp cloth.
4. Heat-Resistant. Not easily charred, blistered, or discolored by heat. Special cigarette-proof grade is also available.
5. Stain-Proof. Foods, acids, household chemicals and strong discolorants will not stain a Textolite surface.

Profits To You . . . Your clients know General Electric. They have faith in its products.

General Electric makes Textolite — a quality plastic surfacing material — a beauty with brawn. It’s tops for tops wherever you need it. Available in a wide variety of solid colors and patterns to carry out every decorative scheme.

G-E Textolite is distributed through a nationwide Roddiscraft warehouse organization.

Here you have the perfect combination — a quality product that your clients know and accept, available for prompt delivery wherever you are.

NOW AVAILABLE AT RODDISCRAFT WAREHOUSES, TEXTOLITE BONDED TO PLYWOOD

Now you can help your customers skip one difficult fabrication step by selling them G-E Textolite bonded-to-plywood panels. Increase your sales to hobbyists and do-it-yourself home owners.

G-E Textolite bonded-to-plywood panels in stock sizes, patterns and colors are available on short notice from your nearest Roddiscraft warehouse — ready for quick and easy installation.

G-E Textolite bonded-to-plywood panels are processed for Roddiscraft by leading fabricators in each warehouse community solely for the convenience of dealers. All workmanship is of highest quality. Call or write your Roddiscraft warehouse today for more information about these profit items.

STOCK SIZES: (7/8” thick) 24 x 96—30 x 96—36 x 96—48 x 96

Other sizes available on special order

*Textolite plastics surfacing is made by General Electric Company and distributed by Roddiscraft. 1/16” thick sheets available in stock sizes, patterns and colors for immediate delivery. Warehouses in principal cities.

Your nearest Roddiscraft warehouse will show you samples of G-E Textolite. A descriptive folder illustrating the many attractive patterns and solid colors is yours for the asking.

BORN IN WINSTON-SALEM
—RAISED IN GARY, INDIANA!

The closets pictured in green in the floor plan are Mengel Wall Closets—
built in Winston-Salem . . . installed in Gary, Indiana. They were shipped
to the job in complete, ready-to-assemble packages and were installed in less
than three hours—all six of them!

WHAT WERE THE ADVANTAGES FOR THE BUILDER?*
1. He saved time, money, labor and materials.
2. He eliminated expensive stud-construction closets entirely—greatly
   reduced the amount of interior wall construction.
3. He provided more storage space, without reducing "living space."
4. He provided better storage, without increasing costs.
5. He provided closets with modern sliding-doors—easier to use . . .
   requiring no "swinging space" . . . and presenting beautiful flush-wall
   appearance.

These advantages are basic—for small homes and large ones . . . for all
construction, in fact, which requires "clothes closets"!

Write, wire or telephone today for the whole Mengel-Wall-Closet story!

*Paul E. Schleicher, Gary, Indiana.

MENGEL WOOD WALL CLOSETS ARE COMPLETE
CLOSETS, EQUIPPED WITH SHELVES, CLOTHES
RODS, DRAWERS, SLIDING DOORS. NOTHING
EXTRA TO BUY. COMPLETE UNITS SHIPPED K.D.
. . . CAN BE ERECTED IN HALF AN HOUR OR
LESS! NATURAL BIRCH OR PRIME-COATED FACES.

SEE OUR CATALOG IN "SWEET'S"—
ARCHITECTS—5c        BUILDERS—2b
m                     m

Wall Closets
MENGEL
Closet Fronts

APRIL 1951
Better for structural work

Duraplastic portland cement has proved advantageous for all types of structural concrete. Because of its air-entraining feature, Duraplastic requires less mixing water for a given slump. Its increased plasticity aids proper placement and improves surface appearance. (Picture, right, shows typical Duraplastic structural job.)

Makes more durable concrete

Water gain and segregation are minimized, resulting in durable concrete fortified against the effects of weather exposure. For more than a decade, Duraplastic has made better concrete for countless structural jobs at no extra cost. That is why an increasing number of engineers and contractors rely on its improved performance and extra durability in all types of work.

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 descriptive booklet, write Universal Atlas Cement Company (United States Steel Corporation Subsidiary), 100 Park Avenue, New York 17, N. Y.

**“Duraplastic” is the registered trade mark of the air-entraining portland cement manufactured by Universal Atlas Cement Company.
fine Oregon Douglas fir

plus

fine plywood mills

plus

fine people

equals

APMI

ASSOCIATED
PLYWOOD MILLS, INC.

GENERAL OFFICES
EUGENE, OREGON

The Douglas fir that grows in Oregon's rain belt is the finest on the face of the earth. That's why we use it.
The mills in which we make our plywood are models of efficiency in the industry.
The people who work with us are skilled, interested, productive—with pride in their jobs.

From these ingredients of materials, machines and men comes APMI plywood; exterior and interior panels that carry double marks of quality—the DFPA grademark and our own trademark.

Your inquiries are welcomed at our general offices, or at APMI sales warehouses.
IRMOO AOT O/FPED GALVANIZED

PRIME WINDOW
(VERTICAL SLIDE)

FACTORY-PAINTED, COMPLETELY ASSEMBLED
. . . READY TO INSTALL

COMES COMPLETE WITH METAL OR WOOD CASING (SURROUND)

DOUBLE GLASS, SCREEN & WEATHERSTRIPPING IN ONE UNIT. (INSULATING SASH OPTIONAL)

A QUALITY PRODUCT COMPETITIVE WITH LOWEST-PRICED UNITS

Cost . . . rusting . . . corrosion . . . field labor . . . maintenance — these are the window problems you must constantly seek to solve.

Thorough investigation will convince you that no other window so completely answers all of these problems and offers so many advantages, to you and your customers, as the remarkable new RUSCO PRIME WINDOW. Call your local Rusco Prime Window distributor or mail coupon for full information.

The F. C. RUSSELL Co.
CLEVELAND 1, OHIO

Manufacturers of famous Rusco Armco Metal Combination Windows, Combination Doors, Porch Enclosures, Awnings and Jalousies.

THE F. C. RUSSELL COMPANY
Department AB-41, Cleveland 1, Ohio

Gentlemen: Please send me catalog of informative data and specifications on Rusco Prime Windows.

Name:
Company:
Address:
City:

Title:

State:

Zone:
...Supplying Forest Products for 56 Years

**Douglas Fir Plywood**

The QUALITY of the Simpson Plywood, manufactured in the center of the Douglas Fir country, is known throughout the major construction areas. All Simpson Douglas Fir Plywood is trademarked and carries DFPA grademarks.

**Douglas Fir and Hemlock Doors**

Simpson Fir Doors, manufactured from mature Douglas Fir, are available in all areas in all FOI grades, all specifications and all designs including the Simpson Flush Door and the increasingly popular Simpson Western Hemlock Door.

**Western Lumber**

From our forests and mills all grades and sizes of old-growth green Douglas Fir and Western Hemlock lumber are available especially to the water-borne markets on the Atlantic and Gulf Coasts. Redwood lumber is now available in limited quantities and specifications from our California operations.

**Acoustical Tile**

Simpson Acoustical Tile is available through authorized acoustical contractors, and Simpson NoiseMaster Acoustical Tile through regular distributors and dealers. These fine acoustical products are preferred because of high sound absorption and Hollokore drilled perforations.

**Insulating Board Products**

We conserve timber by converting mill left-overs into Insulating Board Products including Interior Finish Board, Plank and Tileboard, Sheathing and Lath, Roof and Cold Storage Insulation, and Acoustical Tile.

**SIMPSON LOGGING COMPANY**

PLANTS at Shelton and McCloud, Washington, and Klamath, California

SALES DIVISION, 1065 Stuart Bldg., Seattle 1, Washington

SALES OFFICES: San Francisco, Los Angeles, New York, Fargo, Chicago, St. Louis, Shreveport

The SURE Way to Buy Quality—Buy **Simpson**
“I hear the word ‘economy’ more and more these days as I show prospects through my houses. Prospective home owners want economy to begin with and economy to live with.

“That’s why I point out the oak flooring in my houses the first chance I get. Prospects recognize oak as a symbol of economy, quality and beauty—it makes my selling job easier.

“Builders and home owners know that oak is the most economical flooring. Its lifetime durability and ease of maintenance spells economy to every prospective home owner.

“Of course, I know that 85% of all prospective home owners want oak flooring in their next homes. In fact, I insist that all of my houses have oak flooring.” National Oak Flooring Manufacturers’ Association, Sterick Building, Memphis 3, Tennessee.

No other feature helps sell a house faster than a good oak floor.
VIKON METAL TILE
Light in Weight
Economical
Durable

PROCESS • VIKON tiles are stamped from sheets of zinc plate and chemically treated steel or chemically treated aluminum. The durable synthetic enamel is mechanically applied and then hardened by baking in scientifically controlled ovens.

INSTALLATION • VIKON tiles are equally convenient and economical to install in new or remodelling projects—modest in weight (steel 20 oz. to sq. ft., aluminum 14 oz. to sq. ft., including mastic), no extra supports required, little or no moving of fixtures, the original plastered wall can be used. VIKON tiles can be bent for corners, or cut or lapped to fit special needs. When tiles are properly cemented in place, they become as rigid as the wall and will not warp, loosen or bulge.

ADAPTABLE • VIKON tiles are adaptable to wall and ceiling installations. The finish will not crack, chip or craze; is highly resistant to the effect of heat and ordinary household chemicals; is fire-resistant, waterproof, and seal against insects...VIKON is tile efficiency at its best, excellent both for new homes and remodelling existing homes and apartments.

MAINTENANCE • VIKON tiles are quickly and easily cleaned with VIKON cream wax to restore their original luster and beauty—even after years of service.

VIKON tiles are generally approved by the F.H.A. and may be seen in various governmental and civilian installations (addresses on request).

27 FADE-RESISTANT DECORATOR'S COLORS (solids, hammereded and mottled effects) allow unlimited selection. VIKON tiles of natural polished plain and embossed stainless steel are also available.

Write for contract specifications.

<table>
<thead>
<tr>
<th>ELEMENTS</th>
<th>STEEL</th>
<th>ALUMINUM</th>
<th>STAINLESS STEEL</th>
<th>MASTIC</th>
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<tbody>
<tr>
<td>Raw metal</td>
<td>Cold rolled</td>
<td>38 Full hard</td>
<td>18-8 Alloy</td>
<td>Linseed oil, lead, whiting</td>
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<td>.020”</td>
<td>.0149”</td>
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<td>Tile cavity</td>
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<td>1-1.3 mills</td>
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<td>Other types are available</td>
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<tr>
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<th>Chair Rail</th>
<th>Single Curve Chair Rail</th>
<th>Inside Corner Bead 1 x 12</th>
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<td></td>
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<td>2½ x 8½</td>
<td>2 x 8½</td>
<td>1½ x 12</td>
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<td></td>
<td>6 x 6</td>
<td>Border Strip</td>
<td>Double Curve Chair Rail</td>
<td>Outside Corner Bead 1 x 12</td>
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<td></td>
<td></td>
<td>¾ x 8½</td>
<td>1½ x 8½</td>
<td>Cove Bases 4½ x 4—6 x 3½</td>
</tr>
</tbody>
</table>

Write for contract specifications.
ALL-AMERICAN COUNTER-TOP SINK. One-piece construction of porcelain enameled cast iron—in white and eight Crane colors. Two 8-inch deep basins, 17" x 15½". Four-inch high back. Chromium-plated trim includes Dial-ese controls, swinging mixing spout, retractable hose spray. Overall size: 38" x 22". Consult your Crane Branch or Crane Wholesaler.
Harbor's Dependable Products
—Made Better to Serve Better!

SUPER-Harbor

THE ORIGINAL EXTERIOR-TYPE DOUGLAS FIR PLYWOOD

For years the preferred panel for all outdoor and marine use,
SUPER-Harbor exceeds Commercial Specifications in four
important respects: 1. Heartwood only is used throughout;
2. Core veneers are precision jointed to minimize voids; 3. Inner
plys are B grade, with defects repaired
to produce a "solid" panel face to back;
4. After hot-pressing, panels are
tempered to restore proper moisture
content. The result is a uniform, extra-
strong Exterior panel of double
dependability — the accepted standard
for superior performance.

Quality which goes beyond accepted
standards has always marked the manu-
facture of Harbor Plywood products.
This extra quality—the result of exacting
requirements in material, work-
manship and process control—insures
performance satisfaction all along the
line. Dealer...specifier...builder...
user—all rely on Harbor trade-names.
For these names mean dependable
products, made better to serve better.

Harborite

PLASTIC-FACED
PLYWOOD

Durable, rugged SUPER-Harbor Exterior-type panels—with tough, hard,
smooth faces of resin-impregnated plastic
fiber permanently fused to the plywood
core— that's Harborite. It brings you all
the strength and structural values of
exterior plywood, plus the appearance
values, check-free qualities and extra
durability of a superior plastic overlay.
Harborite is a construction, industrial
and utility panel for siding, soffits, cabi-
net work, signs, toys...for siding and
lining railroad cars, trucks, trailers, etc.

Harborite

PLYCRETE

Specifically produced for high-quality
concrete form work, Harborite plastic-
faced PLYCRETE panels produce the
ultimate in smooth, blanch-free con-
crete surfaces—and give multiple re-use
for long-life economy. Factory edged,
rounded and oiled.

Harborite

GIANT PANELS

Giant panels of Harborite plastic-faced
plywood are manufactured to order for
special jobs requiring the advantages of an
"extra-wide" overlay panel. Harbot's
1 to 12 scarf ratio produces a superior
joint. Standard overlay weight is 60/80.
Additional plastic facing on order.

Harbor

INTERIOR-TYPE PLYWOOD

A quality moisture-resistant panel in all
standard industry appearance grades—
for interior wall paneling, cabinets,
shelving, surfacing, built-ins, indoor
furniture, display and interior indus-
trial applications.

Harbor

PLYCRETE

The original concrete form panel—pre-
ferred for 20 years on concrete form
jobs when limited re-use will write off
the cost.
Manufactured from genuine red cedar, these durable processed shakes are factory-stained in a wide variety of popular colors.

Economical, easy-to-apply Creo-Dipt Zephyrs provide the perfect answer to the modern demand for shingle-sided homes.

Exclusive Zephyr Double Wall construction — utilizing an underwall of Creo-Dipt Insulation Backing Board — offers the added sales appeal of greater home comfort and important fuel savings.

For quicker sales at higher prices, sidewall your homes with popular Creo-Dipt Double Wall Zephyr Shakes.

Mail the coupon for complete information.
Every Plastic advantage at a moderate cost!

- **Vinylite Colors**: FLor-Ever features the clean, lucid colors typical of plastics—whiter whites; blacker blacks; luscious reds, greens, blues and yellows, with marbelized mixtures. There are, today, 21 FLor-Ever colors. A set of samples is freely available to every accredited architect, designer or builder.

- **Tiles and rolls (plus feature strips)**: FLor-Ever is available by the YARD (in six widths: standard 6-foot, plus 42”, 36”, 30”, 24” and 9”) and in 9” x 9” TILES, and in 1” feature STRIPS. Thus your designing scope is unlimited. Furthermore, FLor-Ever is also an ideal sink or counter top and is made in the right widths for such use. You can now design with all major horizontals matching perfectly.

- **Non-Porous—cuts cleaning care**: FLor-Ever is NON-POUROUS—which means that soil cannot grip into the surface and therefore is removed with far less effort.

- **Grease-proof, alkali-proof, water-proof**: No animal, vegetable or mineral oil, grease or fat can ever stain, soften or in any other way damage FLor-Ever. The harshest soaps, cleaners and detergents will not affect it.

- **Stain-and-spot-resistant**: FLor-Ever is almost completely inert and stable chemically—cannot be stained, discolored nor in any other way affected by household acids, chlorides, bleaches and other attacking agents normally encountered.

- **Outwears most other floor coverings**: FLor-Ever is amazingly resistant to abrasion. For instance, it will outwear floor coverings 150% as thick and the colors cannot be worn off because they are IN the Vinylite clear through to the Permo-Seal back.

- **Priced for popular budgets**: Though luxurious in appearance and performance, FLor-Ever is not a premium floor. Its installed cost is comparable to that of most popular high quality floor coverings. Investigate.

If you are a practicing architect or designer, an active builder, or otherwise concerned with specifying floor coverings, we shall gladly have delivered to you full descriptive and technical material plus a complete set of samples, without obligating you in any way—and we know this material will help you do your job more efficiently and profitably. Mail the coupon.

Manufactured by one of America’s leading floor covering manufacturers:
DELAWARE FLOOR PRODUCTS, INC., Established 1930
Plants: Wilmington, Del. Manufacturers of FLor-Ever, Kolorflor, Durain.
*The quality group of door manufacturers is comprised of mills inspected regularly by the Fir Door Institute inspection service. This service is a check on quality completely independent of individual mill supervision. The doors produced by these manufacturers carry FDI grademarks:

- Acme Door Corporation
  Hoquiam, Wash.
- Buffelen Manufacturing Company
  Tacoma, Wash.
- Cruver Door Company
  Anacortes, Wash.
- Klamath Door Company
  Klamath Falls, Ore.
- M and M Wood Working Company
  Portland, Ore.
- E. A. Nord Co., Inc.
  Everett, Wash.
- Puget Sound Manufacturing Co.
  Tacoma, Wash.
- Robinson Plywood & Timber Co.
  Everett, Wash.
- Simpson Logging Company
  Seattle, Wash.
- Vancouver Door Company
  Montesano, Wash.
- The Wheeler & Osgeod Company
  Tacoma, Wash.

A Wide Selection

...Plus 5 Quality Grades for Every Building Need

Small cottage or stately mansion...office, hotel or commercial building...there's a quality-manufactured* Douglas Fir door for every conceivable building requirement.

FDI-Inspired doors are produced in 36 interior door designs, 21 entrance door designs, several garage door designs...in a wide range of styles, sizes and grades. Architect-designed for beauty...precision engineered for perfect alignment...perfect balance...perfect performance—doors bearing the FDI hallmark of quality are manufactured and inspected in strict accord with rigid Department of Commerce standards.

Small wonder six out ten doors specified for America's residences are Douglas Fir doors.

Demand these FDI official stamps on every Douglas Fir, Western Hemlock, or Sitka Spruce door you buy. These FDI grade-marks certify that doors so marked meet quality Commercial Standards (CS75-48 or CS91-41)—and have been officially inspected by the Fir Door Institute. At buyer's request, doors marked by FDI stamps will be covered by notarized Certificate of Inspection.

Fir Door Institute
Tacoma 2, Washington
As SURE as the Wall it Tiles...

PITTSBURGH
INTERLOCK
PLASTIC WALL TILE

Accepted by the U.S. Dept. of Commerce, Bureau of Standards

"Interlock" is your sure certification for a job well done... in '51. With its 22 most modern colors, nationally advertised to millions of consumers, Pittsburgh Interlock Plastic Wall Tile has become the greatest wall covering demanded by contractors, dealers and architects. The newest patented interlocking and bevel edge makes installation more simple than ever. Try "Interlock" on your next tile job and you'll see why it is as sure as the wall it tiles.

JONES & BROWN, Inc.
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APRIL 1951
**Look to Long Bell for “SINGLE SOURCE Supply”**

**QUALITY WOOD PRODUCTS**
From Long-Bell Douglas Fir and Ponderosa Pine factories
- quality Frames, Industrial Cut Stock, Sash & Doors,
- Glazed Sash Box Shook ...
- Kitchen Cabinets ...
- Un-
- Painted Furniture ...
- Prefabricated Building Stock ...
- varied Products.

**OAK FLOORING**
**PONDEROSA PINE**
**PLYWOOD**
**TREATED PRODUCTS**
... Woods treated with creosote and standard salt preservatives, from Long-Bell Wood Preserving Plants.

Supplied by Long-Bell’s 14 modern mills and factories, the Long-Bell Lumber distribution system is specifically designed to give you maximum service on your purchases of lumber and lumber products.

By ordering more of your requirements from a single convenient source you can save time, money and trouble. You can look to Long-Bell for your lumber requirements in Douglas Fir, West Coast Hemlock, Southern Pine, Ponderosa Pine, White Fir and Southern Hardwoods.

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Established 1875
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DIVISIONAL SALES OFFICES
EASTERN DIVISION • Kansas City, Mo.
WESTERN DIVISION • Longview, Wash.
SEE IT!

—in the 1951 Sweet's Architectural File and Sweet's File For Builders

No progressive architect or builder can afford to be without this important new publication on modern 'trends in automatic heating equipment, now brought to you by Timken Silent Automatic.

Make it your business today to see this informative 12-page Timken Silent Automatic catalog in Sweet's. Entirely new and liberally illustrated, this colorful booklet supplies complete detailed information on the advance-designed Timken Silent Automatic line of quality-built heating equipment.

For your convenience, this important piece of heating literature is also available in reprint form. Write for your free copy.

CHECK THESE IMPORTANT TIMKEN SILENT AUTOMATIC ADVANTAGES:

COMPACT DESIGN — Close attention to every detail of design engineering holds required floor area to a minimum. All the finest modern features are combined in a complete line of ultra-compact units ideal for small homes.

QUIET OPERATION — The truly exceptional quietness of the famous Wall-Flame Burner—a sound level so low it can scarcely be heard—has proved its value in hundreds of thousands of installations, especially next to living quarters.

EFFICIENT PERFORMANCE — For many years Timken Silent Automatic oil-fired equipment has produced fuel oil savings of 25% or more. Now modern design has also made Timken Silent Automatic gas-fired equipment outstanding for economy in its field.

COMPETITIVE PRICE — Timken Silent Automatic heating equipment is priced to compete with other makes of comparable quality—or even less than comparable quality. Best proof is its widespread installation in the most strictly budgeted housing projects.

FACTORY ASSEMBLY — Every feasible assembly operation, including all essential wiring and piping, is completed before each Timken Silent Automatic unit is shipped from the factory. Installation is greatly simplified and speeded by "unitized" construction.

93 MODELS OF FINE HEATING EQUIPMENT FOR OIL, GAS AND COAL

PLANTS AT: DETROIT AND JACKSON, MICH. • OSHKOSH, WIS. • UTICA, N. Y. • ASHTABULA AND KENTON, OHIO • NEW CASTLE, PA.

APRIL 1951
ZONE 1—Kitchen, Utility Room, and Servants' Quarters.
ZONE 2—Living Room, Den, Dining Room, and Game Room.
ZONE 3—Bedroom Wing.

ZONE 1—Kitchen, Utility Room, and Servants' Quarters.
ZONE 2—Living Room, Den, Dining Room, and Game Room.
ZONE 3—Bedroom Wing.

Any hot water heating plant may be zoned easily and inexpensively with Thrush Flow Control System, to supply as many zones as are needed from a single boiler. These zones may be in the same house or in adjacent buildings, often greatly reducing equipment cost because the one boiler replaces many. Only a Circulator, with Relay Transformer, Flow Control Valve, and a Radiant Heat Control are added for each additional zone... simple units which give dependable and individual comfort control in each zone. Thrush Water Heater eliminates the need for separate domestic water supply as the same heating boiler automatically provides plenty of hot water for kitchen, laundry and bath summer and winter. If you are not familiar with Thrush Flow Control System and heating specialties, see our catalog in Sweet's or write Dept.G-4.

H. A. THRUSH and CO.
PERU, INDIANA

THRUSH forced circulating
FLOW CONTROL HOT WATER HEAT
MICARTA® HELPS MAKE SALES

- and now your regular carpenters can install new pre-bonded panels

Westinghouse Micarta is the glamorous high-pressure plastic surface for sink and kitchen counter tops and in playrooms or bathrooms. The beautiful colors, the smooth gleaming surfaces, the interesting patterns—they all add so much to a room.

The advantages of Westinghouse Micarta will fascinate your prospects. You can dare them to nick, dent, chip or scratch Micarta with dishes, cutlery, pots or pans. Dare them to stain Micarta—even with iodine, grease, nail polish remover, alcohol, fruit juices, boiling water! And tell them Micarta is cigarette proof!

-Made of 1/16" Micarta bonded to 3/4" waterproof Weldwood plywood.
-They are made in four sizes so they cut with virtually no waste in almost every case.
-Anyone can saw, plane, trim, drill and install these Panels.

Send for test sample and data including installation details

MICARTA® is made by WESTINGHOUSE
and sold in decorative grades only by UNITED STATES PLYWOOD CORPORATION and U. S.-MENGEL PLYWOODS, INC.

APRIL 1951
CROSS SECTION SHOWS SECRET OF ROLY-DOOR RIGIDITY and LIGHT WEIGHT

Because the cold forming of metal increases its strength, each section of the four-sectional Roly-Door is a single panel, cold roll-formed into a pattern to combine maximum rigidity with minimum weight. By using the deep hot-section and the permanently set triple beads, a firm, self-supporting unit is obtained. This panel is then fused by electric resistance welding to the sturdy U-channel which runs the full length of each end. Then, in the field, each panel section is permanently secured to the next by means of a simple, strong spring steel clip, and is interlocked for its entire length to provide a smooth-acting weathertight joint.

WRITE FOR YOUR FREE GUIDE!
A note on your stationery will bring you your free guide to the selection of residential garage doors—and the phone number of your nearest Roly-Door distributor.

What's between you... and your car?

Are you (and the homes you build) happy about your garage doors? Are you "that way" about them?

Are they four-sectional? All steel? Overhead? Do they cost less to buy—to install? Will they last a house-time?

Is there minimum field assembly? Is everything that can be predetermined fixed to the door at the factory? Is every door individually packaged in a single carton—complete with all necessary parts?

Is it factory prime coated and infra-red baked? Is its operation finger-tip—"touch and go"? Is it quiet, safe, weatherproof?

IS IT? IT IS! Then it's the sensational New MORRISON Roly-Door!

Roly-Door DIVISION
MORRISON STEEL PRODUCTS, INC.
649 AMHERST ST. • BUFFALO 7, N.Y.
ALL FLUSH DOORS ARE NOT ALIKE!

There is only one

Thomason

FLUSH DOOR

(All-Wood Throughout)

This flush door, with its unique all-wood core construction, has been specified by architects and contractors for new homes, churches, schools, hospitals, apartments, hotels and public buildings in all sections of the country.

Go to your THOMASON distributor and ask him to show you a cut-away of the THOMASON Flush Door. See for yourself how expertly it is made . . . see how extra strong it is, yet light in weight. Don’t be satisfied with anything less than the best when the best doesn’t cost any more than the ordinary.

AVAILABLE WITH THESE FACE VENEERS

You can choose from Mahogany, Walnut, Oak or Birch. The THOMASON Flush Door also comes faced with natural Gum that provides a satin-smooth surface for staining any color desired.

ALSO MADE FOR EXTERIOR USE

You can order the exterior door either plain or with any one of the three standard light opening patterns. Or you may have the THOMASON Flush Door with a solid all-wood core, faced with your choice of several fine veneers.

Don’t delay!

If you do not know him, write us today for the name and address of your nearest distributor.

SOLD ONLY THROUGH DISTRIBUTORS
MANUFACTURED BY

THOMASON
PLYWOOD CORPORATION
FAYETTEVILLE • NORTH CAROLINA

A P R I L  1 9 5 1
Show the woman prospect how R-O-W Windows can be REMOVED for washing or painting both sides indoors by pushing each sash to the left against spring pressure.

Then tell her about the recent window-washing time test that proved an R-O-W Window may be washed, both sides, in 2 minutes as against 6½ minutes for the ordinary window.

For the name of your nearest distributor and the facts on R-O-W’s "Window-Washing Time Test"— fill out the coupon at right.

All R-O-W sash may be removed and painted at one time and in one location. Sash may be covered and stored away from frames to reduce breakage costs. Removable sash reduce reglazing and other maintenance expenses.

Free Paint Lock in this Amazing Way: Press exposed metal sash channels (at left) and sash in against spring pressure, paint lock is broken. A whole house takes just a few seconds.

For All Residential Units...

**R-O-W Removable WOOD Windows**

**Help You...**

**SELL THE HOME**

**SAVE COSTS**

**R-O-W Removable WOOD WINDOWS**

World's Largest Selling Wood Window

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For All Residential Units...

**R-O-W Removable WOOD Windows**

**Help You...**

**SELL THE HOME**

**SAVE COSTS**

**R-O-W Removable WOOD WINDOWS**

World's Largest Selling Wood Window
 Builders who use Weyerhaeuser 4-Square End-Matched Lumber find it one of their most versatile and profitable building items. It reduces costs and waste . . . promotes stronger construction . . . and solves the width and length problem.

4-Square End-Matched Lumber is precision manufactured with the ends and edges tongued and grooved. End-Matched locks together at the ends and edges and builds up into any width or length, to form smooth, tight, solid panels of any desired size.

Since the inter-locking tongue and groove permits secure joining anywhere in the course, it is not necessary to break joints over studs, joists or rafters. Trimming for length is unnecessary. Nailing time is reduced and end splitting avoided, since double nailing is not required.

When End-Matched is trimmed at the end of a run, the rest of the piece is used to start the next course. Material waste is practically eliminated.

Weyerhaeuser 4-Square End-Matched Lumber is available in various grades and species for sheathing, sub-flooring, siding, finish flooring, ceiling and form work. See your 4-Square Dealer . . . try End-Matched Lumber on your next job.

Build for GREATER PROFIT with SPECIAL 4-SQUARE LUMBER PRODUCTS
How to cut maintenance

**Overhead**

Best bet for industrial and commercial heating installations is the unit heater you can specify on the basis of least maintenance. That's where your client looks for long-range economy and lasting satisfaction.

Tell him of the trouble-free operation of Bryant Gas Unit Heaters . . . how their specifically designed unit heater controls eliminate failures . . . how proper heat exchanger design prevents burnouts and squeezes a maximum of heat from every dollar's worth of fuel . . . how simple, time-saving installation of these Bryants meets his needs for comfort heating that's quick, automatic and without waste.

And, once installed, he can count on these Bryant Unit Heaters for fewer service calls . . . less trouble overhead. These advantages mean savings for him . . . no headaches for you.

For a more complete story, contact the Bryant Distributor nearest you or write direct. Bryant Heater Division, Dept. 81, Affiliated Gas Equipment, Inc., 17825 St. Clair Ave., Cleveland 10, O.
Progressive builders are registering unusual interest in West Coast Hemlock Flooring . . . because it helps them two ways. It helps them to deliver greater flooring value . . . it helps them to more firmly establish their building reputation.

West Coast Hemlock Flooring is the softwood flooring that “hardens with age”. It is End-Matched with a hardwood pattern. It is extremely durable.

Hemlock sands and finishes beautifully. It takes a lustrous high polish or a soft dull tone. Since it is End-Matched . . . tongued and grooved at ends and edges . . . it lays up quickly and tightly.

West Coast Hemlock Flooring is another special Weyerhaeuser 4-Square Lumber Product that brings extra values to homes, stores and public buildings.

It will pay you to talk to your 4-Square Lumber Dealer about West Coast Hemlock Flooring and the other items in the Special Line of 4-Square Lumber Products.
HARDWOOD FLOORING

With these Features:

1. Simple to install direct on steel, concrete, any type subflooring. No special tools or skills needed. Integral cross-grain-reinforced tongues prevent splitting when blind nailed.

2. You also install Higgins Blocks quickly. No "rights" or "lefts" to slow you down. Pick any block and it fits.

3. Completely finished at factory; final on-the-job labor eliminated—every block a gem of beauty just as it comes.

4. Each block precision cut to exact 9" x 9" net face; no dimensional loss allowance needed for tongues and grooves when you order—another big saving!

Higgins Bonded Hardwood Block Flooring will not warp, buckle, cup, or crack—it's water-repellent, termite-proof, rot-proof—highly resistant to scuffing, scratching, and soiling—costs less laid down than any top-quality flooring—easy and economical to maintain.

JOIN THE FAMILY OF SUCCESSFUL HIGGINS DEALERS—

Mail this Coupon for Sample Block and Literature

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New Orleans, Louisiana

Gentlemen: Please send sample of Higgins Bonded Hardwood Flooring block, together with detailed literature.

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Build Defense Homes

You can stay in business—even if government loan curbs, rising costs and material shortages have limited your conventional market. The nation needs low cost housing, especially in critical industrial areas.

You can fill defense housing needs, immediately, profitably, by building the new 1951 P & H factory-engineered homes. Your community gets permanent housing quickly...saves materials, manpower. You enjoy controlled costs, assured profits.

Whether you now build 5 homes or 500, you can get volume sales, project savings, minimum risk, prompt delivery, financing by following the P & H Builder Profit Plan.

You can sell quality homes priced for every volume market—selected from the complete P & H line—floor areas from 672 to 960 square feet...two bedrooms or three, full basement or utility, left hand plans or right, "end placement" plans for narrow lots.

This advertisement pictures only one of the 60 elevations—all reversible—in the complete P & H line. Your projects gain infinite individuality, avoid "row house monotony," with such P & H special features as gable and hip roofs, gable and hip porches, yard-wide eaves, trellises, jib supports, window boxes, classic panels, shutters and door designs.

Government and financial agencies recognize the enduring quality and lasting value of P & H homes—planned and priced to meet all current housing regulations, national and local. P & H volume sales, easy financing, assure you steady profits in today's uncertain home building market.

FINANCING AVAILABLE—When local financial resources are limited, you can get either construction loans or long term mortgages through facilities of Harnischfeger Corporation's service subsidiary, Builders Acceptance Company.

Write today for details of the P & H Builder Profit Plan. Ask for free booklet, "How to Win on the 1951 Home Front."

P & H
Harnischfeger Corporation

Houses Division

44 Spring Street • Port Washington, Wisconsin

APRIL 1951
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NATURAL COLOR
MORTAR JOINT

is the Last Word in
Insulated Brick Siding

Another improved
Flintkote Product that
stresses quality at low cost!

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Building Materials

...the extra years of service cost no more!

The FLINTKOTE COMPANY, Building Materials Division,
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Yes, any builder can reduce costs with modular design

Modular design is simply a practical method of coordinating building plans and materials on a four-inch unit of measurement—called a "module." Widely acclaimed as the most important development in the building industry today, modular design offers you many cost-cutting advantages.

**how modular design speeds construction**
Modular-size building materials fit together without costly cutting and fitting on the site—save waste time and excessive labor costs.

**how modular design reduces waste**
Modular design eliminates much of the waste of expensive building materials, since modular-size units are put together without trimming.

**how modular design simplifies your purchasing**
One national standard for wood window sizes now replaces the ten or more regional standards. Jobbers and dealers can carry a better assortment of standard stock items, and it's easier for you to obtain the sizes you need.

**how modular design helps you meet competition**
Modular design enables you to give the owner greater value for his money, whether you're building small homes or large commercial or industrial structures.

See your lumber dealer for additional information on modular design. Or mail the coupon for our free folder.

These five popular wood window designs are all readily available in the 25 most widely used sizes. Any one of the designs will fit into the same size window opening—without wasteful cutting and trimming.

NATIONAL WOODWORK MANUFACTURERS ASSOCIATION • 332 South Michigan Avenue, Chicago 4, Illinois
Present restrictions on new home building need not restrict your own opportunity for profitable roofing business.

Consider these facts:

1. According to best estimates a total of 800,000 new housing units will be built in 1951. This, itself, is a pretty good-sized market in any year, yet...

2. It represents only a part of the total roofing market in prospect for this year.

3. The BIGGER part—much BIGGER part—will be reroofing, maintenance and repair.

Yes, people are going to need new roofs on their houses... and people are going to have money to buy them! Money that might otherwise be spent for hard-to-get consumer goods is available for home-improvements and repairs.

You can claim your share of this ripe market by selling and applying Barrett Asphalt Shingles. The Barrett line includes not only a wide variety of "conventional" shingles but also top-flight, exclusive design, lock-type shingles. Barrett Shingles are approved by Underwriters' Laboratories, and meet every requirement for superior reroofing at moderate cost—values your competition just can't beat.

Don't put it off—get in touch with Barrett today! Let your Barrett representative give you full information as to products, prices, deliveries, advertising and promotion backing that really help you sell.

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VERSIBOND Has Everything!

VERSIBOND is a "natural" for builders and installers! Its easier installation - by contact pressure - reduces costs. It is easy to cut to size - easy to bend to form concave backs of sink tops and other decorative effects. It can be shaped, routed, drilled, countersunk and counterbored. Cut edges are easily filed, planed, or sandpapered to desired smoothness. What about "owner benefits"? VERSIBOND offers the owner all the advantages of the highest quality decorative plastic laminate surfacing materials PLUS cigarette-proof quality at no extra charge! A full range of popular color-patterns gives the customer freedom of selection to harmonize with any decorative plan. VERSIBOND is resistant to wear, stains, heat, light, and boiling water. (VERSIBOND exceeds "NEMA" tests for those qualities.) For full-color, descriptive folder about VERSIBOND, write...
The Ohio Rubber Company, VERSIBOND DIVISION, 100 Ben-Hur Ave., Willoughby, Ohio.
THE BUILDING ESTIMATOR'S REFERENCE BOOK

One of the most important happenings in the practical building book field during the past twelve months was the publication of the new, completely revised edition of Frank R. Walker's THE BUILDING ESTIMATOR'S REFERENCE BOOK. As thousands of builders and contractors already know, this handy guide and handbook has been rendering valuable estimating service for a great many years, since 1915 to be exact, and is as useful today in its eleventh edition as it was in its first edition thirty-six years ago.

During that time the book has grown to be a good-sized volume containing 1750 pages and hundreds of illustrations, diagrams and estimating tables. What is most noteworthy about the new edition, however, is that Mr. Walker, having waited five years after the end of World War II to make this revision, has included all the material and labor price changes that occurred in that interval. Now with the Korean War and the defense production program on our hands it is impossible to say what will happen to costs and prices in the future. Even so, THE BUILDING ESTIMATOR'S REFERENCE BOOK in its new edition is still far and away the best estimating volume on the market.

Because this work provides basic estimating know-how and covers every type of building material together with the cost of labor appropriate to its use the book can be employed by builders, contractors, estimators and architects in figuring costs on practically any job from the largest to the smallest, from fitting acoustical tile in a skyscraper to installing weatherstripping in a four-room house.

As an added feature, with each copy of THE BUILDING ESTIMATOR'S REFERENCE BOOK that is sold, the publisher gives away his excellent VEST-POCKET ESTIMATOR that is sold, separately, contains 220 pages of ready reference estimating information, diagrams and statistics, details of window details, interior and exterior finish, together with descriptions of woods, millwork, roofing, painting and estimating. For instance, in the carpentry and millwork section is found framing diagrams and statistics, details of window details, interior and exterior finish, together with descriptions of woods, glazed, and trim. All of this information is naturally presented in its briefest form, but even so the book is surprisingly complete. More to the point, a pocket-size book should be a compact volume if for no other reason than ease in carrying it around.

BUILDING TRADES HANDBOOK
International Textbook Company. 366 pages, 150 illustrations, 50 tables. 3 1/2 x 5 1/2. $1.75.

Another reference book that we believe can be helpful to builders, but in quite a different way from the estimating book above, is the pocket-sized BUILDING TRADES HANDBOOK. Into its 366 small-size pages is packed a wealth of concise building data, formulas and illustrations on mathematics, drawing, design, masonry, carpentry, millwork, roofing, painting and estimating. For instance, in the carpentry and millwork section is found framing diagrams and statistics, details of window details, interior and exterior finish, together with descriptions of woods, glazed, and trim. All of this information is naturally presented in its briefest form, but even so the book is surprisingly complete. More to the point, a pocket-size book should be a compact volume if for no other reason than ease in carrying it around.

ESTIMATING

1. THE BUILDING ESTIMATOR'S REFERENCE BOOK and Vest Pocket Estimator (not sold separately). By Frank R. Walker. Contains latest estimating and cost data on everything that goes into house construction. Most complete compilation of estimating and cost data available. $15.00.

2. SIMPLIFIED CARPENTRY ESTIMATING. By J. W. Wilson and Clell M. Rogers. Everything needed to "take-off" a bill of materials from set of plans and specifications for a frame house—with many helpful quick-reference tables and short-cut methods that simplify the work. $3.50.

3. THE BUILDING TRADES HANDBOOK. Ready reference on building subjects—mathematics, architectural drawing, structural design, materials and methods. $1.75.

4. CONTRACTOR'S MATERIAL LIST. A 10-column take-off form for complete listing of materials and labor costs. $1.00.

5. SPECIFICATIONS. Full set at detailed house specifications (and item index), with spaces for inserting the pertinent description data. $2.50.

CARPENTRY AND BUILDING


7. HOUSE CARPENTRY AND JOINERY. By Nelson L. Burbank. Every step of carpentry in and around a house. clearly explained and illustrated. Covers every job from foundation forms to interior trim. $3.90.


9. FRAMING, SHEATHING AND INSULATION. Easy-to-use illustrated guide of proper ways to do house framing, sheathing and insulation jobs. Good self-teacher. $3.50.

10. INTERIOR AND EXTERIOR TRIM. Practical how-to instruction book for all basic carpentry steps in interior and exterior trim work $3.50.

THE STEEL SQUARE

11. STEEL SQUARE POCKET BOOK. By Dwight L. Stoddard. Illustrated and worked-out problems of lay out common rafters, hipped, octagon, hexagonal and circular roofs, roofs of uneven pitch, and curved roofs. $1.25.

12. STEEL SQUARE. By Gilbert Townsend. This how-to-do-it steel square instruction book provides fundamentals plus step-by-step house construction problems solved by proper steel square use. $2.25.


14. STAIR BUILDING. By Gilbert Townsend. Fully illustrated explanation of every problem in design and construction of stairs. $2.50.
BOOK ORDER SERVICE

PLAN BOOKS
15. AMERICA'S BEST SMALL HOUSES. Exterior and interior views. Floor plan sketches, material specifications and descriptions of 40 new low-cost homes. $3.95.
16. SUNSET WESTERN RANCH HOUSES. Authoritative book on the California ranch house, with thorough pictorial descriptions and ground floor and site drawings. $3.00.
17. DUPLEX AND APARTMENT HOUSES. By J. W. Lindstrom. Floor plan sketches and brief descriptions of 35 duplexes, 11 4-apartment buildings, and 5 larger ones ranging from 6 to 12 apartments. Cubic footage given. $1.00.
18. BLUEPRINT PLANS. Contains 12 complete blueprints of modern small homes designed by leading architects. Also descriptions and floor plans of 9 other houses, 7 garages, and sketches of built-in equipment. $1.00.
19. PREMIER BOOK OF GARAGE PLANS. Full-scale working blueprints of 9 one and two-car garages. Not new, but only book supplying plans. $.50.

HEATING AND PLUMBING
21. HOW TO DESIGN AND INSTALL PLUMBING. By A. J. Matthias, Jr. Every step in the design and installation of the plumbing system, to fulfill requirements indicated in blueprints and specifications, explained and illustrated. $3.50.
22. STANDARD PLUMBING DETAILS. By Louis J. Day. Excellent 119 full-page detail plates covering every phase of best modern plumbing practice. No text. $7.00.

PAINTING AND DECORATING
23. PRICE GUIDE FOR PAINTERS AND DECORATORS. Tables covering practically every type of work done by the painter and decorator, with suggested prices based on various wage scales. $1.25.
24. PAINTING AND DECORATING CRAFTSMAN'S MANUAL. Sponsored by the Painting and Decorating Contractors of America. $2.00.

BRICKWORK AND MASONRY
25. THE ART OF BRICKLAYING. By J. Edgar Hay. Basic bricklaying job instruction, many illustrations, glossary, special scaffolding and cement block chapters. $4.00.
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29. WESTINGHOUSE HOME WIRING HANDBOOK. By A. Carl Brodahl. A guide for planning the wiring of moderate-priced homes, with emphasis on safety, effectiveness and efficiency. $1.00.

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30. HOME BUILDERS MANUAL FOR CONTRACTORS. Provides convenient data and check lists to follow all operations connected with construction of a home. Laminated binder permits additions of special material pertaining to project being constructed. $5.00.
31. PRACTICAL ACCOUNTING AND COST KEEPING FOR CONTRACTORS. Complete instructions and examples showing proper methods of keeping time and compiling costs on all classes of construction work. $3.50.
32. BOOK OF SUCCESSFUL FIREPLACES. Best available book on how to construct indoor and outdoor fireplaces. $5.50.
33. LUMBER DATA. Lefax Data Sheets. Handy pocket-sized handbook containing all kinds of important data having to do with lumber and timber. $1.00.
34. HOW TO EXPAND AND IMPROVE YOUR HOME. By Lee Frankl. An excellent home remodeling guide written for the homeowner but invaluable for builders and building supply dealers. $5.95.

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APRIL 1951
Beautiful wood construction gives depth of shadowing to these Windowalls. Long & Thorsoy, Inc., Architects
BRIGHT WALLS of Andersen Casement and Picture Window Units endow this home with all the spaciousness of its country hilltop site.

WINDOWWALLS admit plenty of fresh air and sunshine along with the view, yet they seal out unpleasant weather like a wall. Efficient both as wall and window, they are the most satisfactory answer to the demand for large window areas.

See your local millwork dealer or write us for details and further information. Detail Catalog of Andersen WINDOWWALLS is in Sweet’s Builders’ File.
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Prize-Winning Designs
For Plywood Built-Ins
From NAHB-FORUM Competition

JUST PUBLISHED! A portfolio of designs awarded top honors by a jury of nationally-known architects in the Special Awards Competition for Plywood Built-In Features conducted within the $57,000 NAHB-ARCHITECTURAL FORUM House Design Competition. Contains reproduction of all prize-winning designs for built-ins chosen from the 2,727 competition entries. Designs include plywood storage walls, denizable closets, breakfast bar partitions and many others. This idea-starting portfolio is a "must have" for every architect, designer and builder interested in adding convenience, livability and extra sales-appeal to today's homes. Mail coupon today!

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IMPORTANT TO BUILDERS
be sure your new equipment
is built to last!

Strategic materials are fast being earmarked for defense. It means fewer new machines, more dependence upon the machines you have. Definitely, when you buy any machine today, buy for durability as well as efficiency. It may have to serve a long time!

Concrete Mixers—Sturdiest of small tillers is the Jaeger 3½-S with patented V-bottom drum. Fast to hitch, tow and spot, fast loading and discharging. And rugged—heavy semi-steel drum bowl and ring gear, Timken bearings on drum shaft and wheels, solid steel drum lip, tough Wisconsin AKN engine, oil-bath transmission, are typical. Then, Jaeger 6-S, 11-S and 16-S Mixers, with power loading skips and drums that give famous Jaeger criss-cross mixing. Their drums have heavy, integrally welded, machined steel tracks that ride on chilled-iron car-wheel type rollers—each roller with 2 Timken bearings. Engines are big enough to do their jobs easily and economically, big Twin-Disc clutches ease sudden loads on engines and transmissions. Structural steel frames and excellent stability mean minimum vibration and wear. All are described in Catalog M-10.


Jaeger "New Standard" Compressors—Deliver more air—75 cfm instead of 60, 125 cfm instead of 105—keep tools working at steady full pressure. Tools hit harder and faster, do 30% to 40% more work. Get the full story. Write for Catalog JC-1.


THE JAEGER MACHINE COMPANY
521 Dublin Ave., Columbus 16, Ohio • Distributors in 130 Cities of the U.S. and Canada
A NEW PLASTIC FINISH FOR ARMSTRONG'S De Luxe MONOWALL

After 10 years of research, a new finish known as "M-67" has been perfected for use on Armstrong's De Luxe Monowall®. It makes Monowall more lustrous and far more durable than ever before—will make it easier than ever to sell.

What is M-67?
M-67 is an entirely new kind of plastic finish with extremely high gloss, durability, and beauty. Unlike paint, lacquer, and ordinary "baked-on" finishes, M-67 is hardened by a special manufacturing process that requires absolute precision in timing and temperature control. M-67 is almost as smooth as plate glass. This new finish has been subjected to rigorous laboratory tests, along with 16 other brands of panelboard—tests for gloss, fading, resistance to solvents, moisture, stains, abrasion, temperature changes, and many more (see photos at right). Almost every condition of normal and abnormal use was simulated in these tests. Armstrong's De Luxe Monowall rated higher than any other material—much higher than the average for all 16 materials tested.

New production equipment
To produce M-67, entirely new plant equipment was required. Production of the new Monowall is now almost completely automatic, with precise controls carefully guarding quality at every step of the manufacturing process.

A new package
Packaging of the larger sizes of Armstrong's De Luxe Monowall has also been greatly improved. (See photo at right.) There are fewer panels per package, so you can buy in full cartons, saving time, handling cost, and service charges. Packages contain just enough material for the typical job. They're lighter in weight, easier to handle, and better protected against damage. Panels are banded together face-to-face with metal tape. Rigid steel channels protect the edges of the material. Outer panels are clearly labeled and trademarked for quick warehouse identification.

The new Armstrong's De Luxe Monowall offers you a great new profit opportunity. Get full information about it. Contact your Armstrong lumber dealer today or write directly to Armstrong Cork Company, 1604 Lincoln Street, Lancaster, Pennsylvania.
Gloss test. This Glossmeter registers the amount of light a surface will reflect. Test samples of panelboard are compared with the gloss of plate glass. Monowall's M-67 finish rates 93%. This high gloss means extra beauty and greater ease of cleaning.

Fadesometer test. 100 hours in this “sunlight” machine equals 12 years of direct exposure to the sun. The Fadesometer test is used to determine amount of color change. The samples of Armstrong's Monowall showed no visible change in color.

Impact abrasion test. Panelboard test samples are placed in revolving drums containing heavy metal slugs which continually beat against the finish of the samples. The new Monowall finish received the highest rating obtainable in this test.

Wet abrasion test. This “mechanical housewife” simulates many years of washing to show the effects of abrasive cleaning powders on panelboard finishes. The new M-67 plastic finish of Armstrong's Monowall was unexcelled in this practical scrubbing test.

Soap bath test. Simulates extreme conditions in tub, shower, and sink areas. Samples are immersed for long periods in an agitated solution of hot, soapy water, then dried and tested. Monowall's M-67 plastic finish again received the top rating.

Stain test. This test shows the resistance of panelboards to common household stains, such as ammonia, bacon grease, ink, and vinegar. Stain drops are dried for an hour, then cleaned off. Samples of the new Monowall resisted these and other stains.

Colors and designs. The new Monowall offers 27 different color and design combinations all styled by color experts to match the up-to-date decorating tastes of your customers. Monowall colors are carefully chosen for harmonious use together.

New Monowall package. Larger sizes are packed face-to-face with tissue dividers; panels are held firmly together with steel channels and metal bands. Packages contain only half as many pieces as before. Now you can buy and sell full packages.

Advertising helps. Now, the powerful new force of television is selling Monowall on Armstrong's Circle Theatre—NBC-TV. National magazine advertising, new displays, booklets, and other advertising helps are all behind the new Armstrong's Monowall.
For homes that are cool in summer...
cleaner and more healthful the year 'round

American-Standards now presents

*Both designed for use with existing forced warm air heating systems
two sensational new products

THE
MAGNE-FILTER
AIR CLEANER

Designed for easy installation in any winter or summer air conditioning system, the new Magne-filter Air Cleaner is a dry type electronic air filter that traps even the smallest dirt particles. Automatically cleaning the air by electrical attraction, the Magne-filter effectively removes pollen, air-borne bacteria, dust, and smoke. The Magne-filter is designed to be installed in the return duct of the air conditioning system, and can be installed on its side in limited space applications.

Here is the newest in summer air conditioning for small and medium homes. The new Mayfair Summer Air Conditioner connects to the duct work of existing forced warm air heating systems. Handily controlled by a switch, it mechanically cools and dehumidifies the air. And because it has a hermetically sealed, factory-tested cooling system, the Mayfair is as simple in operation as a modern refrigerator! When installed with an American-Standard warm air heating unit, the Mayfair provides year 'round residential air conditioning at its best.

For free literature on these two new products, contact the American-Standard sales office serving you or write to American Radiator & Standard Sanitary Corporation, P. O. Box 1226, Pittsburgh 30, Pa.

AMERICAN-Standard
First in heating . . . first in plumbing

Serving home and industry: AMERICAN-STANDARD • AMERICAN BLOWER • CHURCH SEATS • DETROIT LUBRICATOR • KEWANEE BOILERS • ROSS HEATER • TONAWANDA IRON

APRIL 1951 113
Here's the Sales hit of '51

NEW

BIRD Narrow Shake Insulating Siding

IMPORTANT!

F.H.A. ACCEPTED FOR NEW CONSTRUCTION! Here's a whole new market for you!

These distinctive features spell extra profits and increased sales for you:

★ Perfectly proportioned... Bird 11" Shake is handsome and authentic.

★ Bird Narrow Shake Insulating Siding is F.H.A. accepted for new construction!

★ Over-Lap method of application gives added insulation!

★ Choice of several attractive and suitable colors.

★ Ask your distributor, Bird salesman, or write us for details. Bird & Son, Inc., Dept. AB-4, East Walpole, Massachusetts.

East Walpole
Massachusetts

New York, New York
Chicago, Illinois
LIFETIME DURABILITY—Steel Sheets, milled to uniform specifications, are welded together into a one-piece door leaf—with no bolts, screws, rivets or stitches to become loose. Grooved steel sheets welded to a deep steel frame form a rigid "box" unit—the kind of structure used for strength in bridges. Heavy, diagonal steel braces welded to a sturdy frame prevent sagging and weaving. Strand Doors stay plumb and square, operate easily, for a lifetime. Steel stands up under shipping and handling—and won't warp, shrink, rot or splinter.

Strand Garage Doors are galvannealed—galvanized with a heavy zinc coat for lasting rust protection, oven-baked to provide a clinging base for paint to match the garage. No priming coat is needed.

QUicker INSTALLATION—Dependable springs and complete hardware including bolts, screws, handle, strong lock and 2 keys come in a single handy package (plus track in the case of the receding door). Everything comes ready to install; nothing more to buy. Hardware serves as installation template on jambs, saving much time. Instruction sheet comes with door—handy man with simple tools can install.

BIGGER VALUE!—Strand's lower first cost results from standardization on four models—and big volume production concentrated in one plant. Order Strand Doors now from your dealer, or mail the coupon if you need more information.

STRAND GARAGE DOOR DIVISION
Detroit Steel Products Company
Dept. AB-4 2242 E. Grand Blvd.
Detroit 11, Michigan
Please rush detailed description of Strand all-steel Garage Doors for 9' x 7', 8' x 7', and 16' x 7' garage openings.
I am a

☐ Builder ☐ Dealer ☐ Prospective Owner ☐ Other

Home
Address
City State
ABOUT MANPOWER!

With today's shift of emphasis from civilian to defense needs, the manpower factor becomes increasingly important in home construction. Even though your construction crews may be cut in half, you can build Gunnison Homes in half the time, without the headaches and uncertainties of conventional building! Gunnison's standardized modular construction plan is designed for simplicity, ease and speed in erection. Skilled labor required and total man-hours at the building site are cut to an absolute minimum!

For further information, write Dept. A-12,
Gunnison Homes, Inc., New Albany, Ind.
Notice how
Pittsburgh
Steeltex
builds a veneer
wall into a
single solid
unit

You'll find that replacing standard sheathing with Pittsburgh Steeltex will give you the basic advantages of masonry veneer construction without including its disadvantages. The strong welded steel mesh bites into the continuous mortar bond behind the brick or stone veneer—thus providing greater mutual resistance against later settling and distortion. Furthermore, fire resistance is considerably increased due to the elimination of flue action normally found between masonry and sheathing. For further good reasons to specify Steeltex, see our catalog in Sweer's or write for our catalog D.S. 132, Dept. AB, Pittsburgh Steel Products Company, Grant Building, Pittsburgh 30, Pa.
California State Capitol Annex — Swinerton and Walberg, Contractors. (Right) Milcor Steel Studs in place, ready for utility piping and wiring. (below) Piping installed — quickly and easily because of pre-determined location through 6" openings in Milcor Steel Studs.

Milcor Steel Studs Speed Construction

Contractors partition 8¾ acres of floor space in record time to help meet 376-day schedule

Despite the unique design features of the Capitol Annex building (all assembly rooms are designed as theaters) the design features of Milcor Steel Studs enabled the contractor to meet his tight completion schedule.

Milcor Steel Studs offer these construction advantages:

✓ They are the backbone of the complete Milcor firesafe construction system.
✓ Walls of Milcor studs can be erected safely and economically to varying heights.
✓ All utility piping and wiring can be installed immediately after studs are set in place without expensive cutting and fitting — other trades can work at the same time.
✓ Milcor studs are quickly cut to length on job — practically no clean-up expense afterwards.
✓ They are firesafe — 1 to 2½ hour fire-rating; resist shock of earthquakes and explosions, too.
✓ They eliminate the principal causes of plaster cracking — cannot warp, swell, or split.

Their speed and simplicity of erection plus their light weight and strength makes Milcor Steel Studs a favorite with builders. Write for complete information.

INLAND STEEL PRODUCTS COMPANY
Formerly Milcor Steel Company
4025 West Burnham Street • Milwaukee 1, Wisconsin
Baltimore 24, Md. • Buffalo 11, N. Y. • Chicago 9, Ill. • Cincinnati 25, Ohio
Cleveland 14, Ohio • Detroit 2, Mich. • Kansas City 8, Mo. • Los Angeles 58, Calif.
New York 22, N. Y. • Rochester 9, N. Y. • St. Louis 10, Mo.

118
HERE'S THE ONE SURE WAY TO

prepare any gypsum wallboard for any spirit-thinned paint, enamel or wallpaper

Why take chances and then hope for the best? Now— you can prepare gypsum wallboard interiors for oil stipple, enamels, any other spirit-thinned paints, or wallpaper—and help insure fine decorating jobs. Just use SHEETROCK Sealer, it's . . .

BETTER . . . SURER . . . 6 WAYS!
1. Lays face paper nap
2. Seals off impurities
3. Easy and ready to use
4. Controls suction
5. Highly pigmented
6. Provides "tooth"

TRY IT FREE!

United States Gypsum Company
300 West Adams Street, Dept. 144-B, Chicago 6, Illinois
I'm anxious to try SHEETROCK Sealer. Please send FREE quart can right away!

Name
Address
Occupation
Firm
City __________ State ______

United States Gypsum
For Building - For Industry
Paints - Primers - Spackling Putty - Patching Plasters - Textures

APRIL 1951
AMERICA'S NUMBER 1 BUILDINGS USE

More than 10,000 YALE locks and door closers have been on duty in this famous building for 21 years. NOW...

Chrysler selects

New Chrysler Building East
Reinhard, Hofmeister & Wulquist, N. Y., Architects
Turner Construction Co., N. Y., Gen'l Contractor
Elmer T. Hebert, Inc., N. Y., Hardware Supplier
Yale builders' hardware wins the specification on another important job—the new Chrysler Building East!

But only after passing the toughest test of all—actual service (21 years of it)—in the original Chrysler Building, one of America's biggest and busiest.

During this "trial" more than 10,000 Yale locksets and door closers demonstrated again and again the qualities that make Yale famous—paid such steady dividends in convenience, security and maintenance-free operation that the choice of Yale for the new Chrysler Building East was almost automatic.

Here's real evidence that Yale builders' hardware produces long-run satisfaction—satisfaction that you can easily specify. Let your Yale hardware distributor or consultant help you on the next building you plan. For specific information on any hardware problem, just write us, Dept. S-44 at the address below.

**A FULL-TIME "DOORMAN" AT EVERY DOOR!**

For a beautiful, modern building; beautiful, modern door closers—the new, streamlined Yale Compact Door Closers. Modern in engineering as well as appearance. Quick, quiet, and firm in action. Easily reversible, installed in minutes. Built for a lifetime of efficient service with practically no upkeep.

**THE SIGN OF A FINE BUILDING**

Yale 8454. Gives excellent security for doors opening inward or outward because of small latch which deadlocks latchbolt. Bronze front and bolts. Annealed gray iron case. Key changes practically unlimited.
Build Right with
QUALITY PRODUCTS TO HELP YOU

Cut your Costs with INSULITE

1. BUILDRITE SHEATHING—the leading wall sheathing for frame construction. Used in combination with wood siding, shingles, stucco or brick veneer. Economical—goes up fast; practically no waste; no building paper needed; with 4-foot widths no corner bracing required by FHA.

2. BILDRITE STRUCTURAL BOARDS

GRAYLITE LOK-JOINT LATH—a highly efficient plaster base that combines plus features of insulation and sound deadening—also a thorough vapor barrier when Sealed Lok-Joint Lath is used. Made from genuine asphalt-treated Graylite board, this is the only plaster base with the famous “Lok-Joint” that provides a firm, even base with no snap-back under trowel pressure.

SHINGLE-BACKER—provides a firm, even undercourse for shingled sidewalls. Faster and easier to apply, Shingle-Backer adds new beauty at the shadow line. Made from waterproofed Graylite for dependable durability. Length: 8'; Two widths: 15½" for 16" shingles; 18½" for 18" shingles.

INSULITE DIVISION © MINNESOTA AND ONTARIO PAPER COMPANY
MINNEAPOLIS 2, MINNESOTA
BUILDERS PREFER

INSULITE® 2 to 1

over the next leading brand of insulating sheathing

WHEN a building materials product is preferred by a majority of contractors, that means something. But when a recent survey showed Chicago contractors preferring INSULITE BILDRITE SHEATHING 2 to 1 over the next leading brand of insulating sheathing — and as many contractors preferred BILDRITE as all other brands of insulating sheathing combined — that means product leadership!

Listen to what these Chicago builders had to say: "BILDRITE stands up best" . . . "BILDRITE is the toughest of them all" . . . "More rigid" . . . "Best for structural and insulation qualities." And remember, you don't need corner bracing with 4' BILDRITE.

BIG PROFITS FOR BUILDERS!

And Chicago is no exception . . . INSULITE's tremendous acceptance everywhere, is bringing greater profits to builders throughout the country. If you're not already using BILDRITE SHEATHING, see your INSULITE dealer and try it on your next job . . . Find out for yourself why BILDRITE is the best insulating sheathing . . . how it will increase your profits by saving you money, time and labor . . . why it is the product-leader in its field.

See Sweet's File; for Builders — 25¢/in
If you query a housewife about her kitchen, here’s one thing she’ll tell you:

"It must be a pleasant place to work."

And, right off, she’ll say it must be cool—torrid temperatures will not be tolerated in her “workshop.”

So, give her a kitchen that’s as cool as a cucumber. Use Ceco Steel Casements, specially engineered, with ventilators that literally reach out and scoop in stirring fresh air... that provide magic circulation... clear out cooking odors... bathing the inside with cooling, cooling breezes... a welcome, welcome relief.

She’ll like the added view she gets through these handsome window creations. She’ll be ever so grateful because they won’t stick or warp—are easy to wash—add beauty to a room in which she spends so much time.

And remember, when you build with Ceco Casements, you know you’ve used the very best... you’re sure of economy too. Send for free booklet detailing window designs for the kitchen and every room in the house.
Place your homes in the Deluxe Class with AllianceWare in gleaming white or decorators' colors

- A beautiful bathroom like this with an AllianceWare tub and an AllianceWare wall-hung, shelf-back lavatory places even the most modest home in a class with the finest.

You can plan such bathrooms when you select AllianceWare. AllianceWare comes in color as well as white — color that is stainproof and as easy to clean as a china dish — color that has a lifetime of beauty in its smooth lustrous surface.

AllianceWare is not as expensive as you might think, because AllianceWare is made from heavy gauge steel instead of cast iron. The modern methods of manufacturing AllianceWare produce a superior product with more efficient use of materials, resulting in more moderate manufacturing costs and greater value. AllianceWare in color is only 10% more than white. Most colored fixtures cost much more. With AllianceWare, you select the brass goods of your choice. And there is only one quality of AllianceWare — the finest we know how to produce.

Your plumbing contractor can give you complete details of AllianceWare. Or, write us.

ALLIANCEWARE, INC. • Alliance, Ohio
Bathtubs • Lavatories • Sinks
**IN THE HOME**

1. Interior walls and ceilings—Standard or Tempered Presdwood, Panelwood.
2. Storage cabinets—Standard Presdwood ends and backs—Tempered Presdwood doors.
4. Snack bar top—Tempered or Black Tempered Presdwood.
5. Kitchen, bathroom and laundry walls—Temprtile, Tempered Presdwood.
7. Recreation room walls and counter fronts—Leatherwood, Standard or Tempered Presdwood.

**IN COMMERCIAL BUILDINGS**

1. Interior walls and ceilings—Standard or Tempered Presdwood, Panelwood.
2. Counter fronts—Tempered or Black Tempered Presdwood, Leatherwood.
3. Counter and table tops—Tempered or Black Tempered Presdwood, Leatherwood.
5. Displays—Standard or Tempered Presdwood, Leatherwood.
6. Fittings booths—Leatherwood, Standard or Tempered Presdwood, Panelwood.
7. Marquees—Tempered Presdwood.

**IN THE FACTORY**

1. Aisle runners and mats—Tempered Presdwood.
2. Bench and table tops—Tempered Presdwood.
5. Pallets and trays—Tempered Presdwood.
6. Tote trucks—Tempered Presdwood.
7. Partitions—Standard or Tempered Presdwood, Panelwood.
8. Washroom walls—Temprtile, Tempered Presdwood.

---

**MASONITE CORPORATION**

"Masonite" signifies that Masonite Corporation is the source of the product. "Presdwood," "Temprtile," "Panelwood" are Registered Trade-Marks.

There are 19 types and thicknesses of Masonite Hardboards for a thousand uses.

FREE! This handy revolving dial shows you exactly what types and thicknesses of Masonite hardboards to use for various kinds of construction. Send for one today!

Masonite Corporation
P. O. Box 777
Chicago 90, Illinois

APRIL 1951
The trend is toward MEDUSA CEMENTS

For Water-Repellent Construction

Concrete, Masonry, Stucco inside or outside

Concrete Floors

The Finest Mortar Work

For Finest Stucco, Terrazzo, White Concrete

Sidewalks, Driveways and Roads

Concrete, Masonry, Stucco inside or outside

MEDUSA PORTLAND CEMENT COMPANY

1000 Midland Bldg., Cleveland 15, Ohio
1844 Oliver Bldg., Pittsburgh 22, Pa.
228 N. LaSalle St., Chicago 1, Ill.
1309 Toledo Trust Bldg., Toledo, Ohio
135 W. Wells St., Milwaukee 3, Wis.
230 Park Avenue, New York 17, N.Y.
25 N. George St., York, Pa.
FREE BOOKLET OF 13 PRIZE WINNING HOUSE AND KITCHEN PLANS!

Every architect and builder will want to see these ingenious, efficient, low-cost ideas awarded top honors by The Technical Jury of the NAHB-FORUM House Design Competition.

This booklet is sure to spark new ideas for you... combine with ideas you've had for smarter living, better design... point up economies in space and materials.

Here are the finest in a tremendous field of entries, in the judgment of a highly qualified jury... combined in a single, file-size brochure for your convenience by Youngstown Kitchens—and offered to you free! Clever integration of kitchen, utility, eating and living areas; intelligent use of durable steel kitchen equipment; blending of textures—woods, white-enamed steel, windows, textiles; every factor in good kitchen planning for new home or old is ingeniously reflected in these prize-winning plans. Send for your copy now!

CONGRATULATIONS

to the NAHB-FORUM House Design Competition (Kitchen Planning) winners whose excellent plans are included in this brochure:

FIRST PRIZE: James M. Chase
SECOND PRIZE: Fred C. Nagel
THIRD PRIZE: Lawrence G. Evanson
FOURTH PRIZE: Guy G. Reichenstein, Arthur Hinden.

HONORABLE MENTIONS:
J. P. Lippert - Eric R. Bankert
Ching C. Cheng - Edward D. Durt
George Matsumoto - Kazumi Adachi
Dike Nagano - Robert W. Blachok
Lucille B. Rapert - Roland H. Lane

MULLINS MANUFACTURING CORPORATION * WARREN, OHIO
World's Largest Makers of Steel Kitchens

NO COST OR OBLIGATION

Send Coupon for FREE Booklet NOW!

Youngstown Kitchens
Mullins Manufacturing Corporation
Dept. AB-451, Warren, Ohio

Gentlemen: Please send me free collection of 13 prize-winning house and kitchen plans, without cost or obligation.

NAME ____________________
FIRM ____________________
ADDRESS ____________________
CITY ______________ ZONE ______________ STATE ______________

APRIL 1951

129
With an Oliver "HG" Crawler Tractor and Imp Dozer . . . the smallest crawler tractor-dozer unit . . . you get right in on the "ground floor" of any building job. You can clear the ground before excavation. You can backfill foundations sooner because the lightweight of the "HG" will not crack green concrete. And your operating costs are right "down to the ground," too, because the "HG" can be easily transported from job to job in a light trailer with a light truck. Your savings in hauling costs over larger tractors, to say nothing of fuel savings, will almost pay for an "HG" in a short time.

In fact, with an "HG" Imp Dozer, you're in on almost all of the job. It does a real job of leveling and landscaping. Its exceptional maneuverability lets you get into places you can't reach with a larger unit . . . you can even level garage floors. You can level and landscape right up to the edges of houses and drives. Remember, too, "HG" crawler traction lets you operate in any kind of ground condition . . . do the job faster . . . get more jobs per year.

For all the facts, see your Oliver Industrial Distributor or write The Oliver Corporation, Industrial Division, 19300 Euclid Avenue, Cleveland 17, Ohio.
Why BUILD CHIMNEYS
THE SLOW HARD WAY
when you can
CUT COSTS with
SAVE TIME

Van-Packer
PACKAGED CHIMNEY

Why hire somebody to build chimneys the expensive, old-fashioned way when you can install Van-Packer yourself—saving time and money. And, your buyer gets a more efficient, longer-lasting chimney.

- You install Van-Packer at exact moment it suits you best
- Each package contains complete supplies—nothing else to buy
- Finish chimney installation in 3 hours or less
- Cut chimney cost from 20% to 50%—eliminate waiting and cleanup mess
- Accepted by FHA and national codes
- Proved fire-safe and efficient by Underwriters' Laboratories

HOW DO I ORDER—For exact quotation, take the H-L measurements shown in chimney diagram at left. State quantity of chimneys needed.

WHERE DO I BUY IT—See your lumber dealer, heating contractor or write direct to address below. You can count on prompt delivery.

Van-Packer CORPORATION
136 SOUTH CLARK STREET
CHICAGO 3, ILLINOIS
Eye appeal for prospects with sharp pencils

Houses that "look like more than they cost" are a feather in the cap of any builder. And when good looks and economy are backed up by real durability, you're offering a value that can't be beat.

To do just that, more and more builders are using the Keystone System of Stucco Application. Architects are specifying it. Buyers recognize it as a real sales feature. Let us send you the facts, in the new 44-page "Keystone System" booklet today. Write Keystone Steel & Wire Company, Peoria 7, Illinois.
LONG SHAFT MOTOR MOUNTING
FINGER-TIP CONTROL — 90° STOP
DIRECT DRIVE — DUST
BLOWER — SAFETY LOCK SWITCH
ALL BALL BEARINGS — BALL BEARING
DUST COLLECTOR — SELECT GEAR
DRIVE — ACCURATE CENTERING
DEVICE — EASY BELT REMOVAL
ARMATURE — "SLING SHOT
DRIVER — POWERFUL BLOW — NO
RECOIL — EASY INSPECTION — ALL
BALL BEARINGS — SHOCK-TESTED MOTORS
OVERSIZE SEALER'S SCREWS
BRIDGED ARMATURE SUPPORT
DIE CAST HOUSINGS

Only Thor "Silver Line" Tools Offer So MANY Electric Tools Features
**Carrying Case Furnished With Silver Line Saws.**

**SPECIFICATIONS**

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*Furnished standard without carrying case which is available as extra charge equipment. All Silver Line Saws are equipped with one combination blade, 10-feet of 3-conductor cable with 2-prong plug and grounding wire, blade nut wrench, lubricant and steel carrying case.*
EASIEST OPERATING MACHINE OF ITS KIND in the field today, with abundant power for surfacing all types of wood, metal and stone. Cuts quick and clean, without pressure or lifting. Weight and balance properly proportioned to belt width, length and speed—tool needs merely to be guided along the work!

Depth of Cut, 2-1/32"

Silver Line "8"

Depth of Cut, 2 1/4"

Silver Line "10"

Depth of Cut, 3 1/4"

Silver Line "12"

Depth of Cut, 4-7/16"

EXTRA EFFICIENCY THROUGH SUPERIOR HEAT CONTROL

Ingeniously designed aluminum fins conduct heat to flat housing surfaces, where it is radiated away. Strong air currents set up by belt motion blow heat out through open side of belt housing and at the same time cool radiating fins and surfaces. Belts stand up longer, cut cleaner, faster!

- QUICK-ACTING BELT RELEASE makes belt changing a snap. Belt is backed by asbestos cork-filled sheet over hardened steel plate.
- ACCURATE TRACKING DEVICE centers belt on rollers for maximum service. Special device keeps belt from cutting inside housing wall.
- EXCLUSIVE Thor-design power tool motor, triple-insulated, statically and dynamically balanced for long, trouble-free service.

EXCLUSIVE all-spur-gear drive minimizes friction losses, delivers as much as 20% extra power to the belt!

BALL BEARINGS THROUGHOUT, including oversize bearings widely separated for maximum support of rollers. Grease sealed.

"ONE-PIECE" heavy section aluminum housing, fully reinforced, keeps moving parts in permanent alignment.
FROM STAR DRILLING to knocking out a brick wall . . . from driving expansion plugs to notching heavy timbers . . . there are dozens of jobs for the THOR ELECTRIC HAMMER.

SHOCK-PROOF RUBBER YOKE drives the piston . . . no metal connection . . . no shock to gears, motor or operator!

FEATURES A MORE POWERFUL BLOW than any hammer of comparable size and capacity. Weighs only 14 pounds . . . measures only 13½” long . . . and has a capacity in concrete up to a 1½” Star Drill. Built for Heavy Duty Service.

27 MODELS in the ¼” size alone! Speeds from 500 to 5000 R.P.M. Pistol grip, switch handle and end grip styles.

For long, trouble-free service . . . well designed, solidly built, ball bearings . . . quality in every detail from precision ground moving parts to polished die-cast aluminum housings.

A HANDBAND OF POWER! Other sizes from 5/16” to 1⅜” in standard duty, heavy duty and extra heavy duty capacities.

IMPACT WRENCHES - SCREWDRIVERS - NUT SETTERS DISC SANDERS - POLISHERS - BENCH GRINDERS

WRITE FOR FREE CATALOG No. 39
Essick “Big Boy” Model 62B Side Discharge Concrete Mixer. Also available in Model 62C End Discharge; both models mix a two-barrow batch.

Regardless of how you are now mixing concrete—by hand or half-sack mixer—the Essick “Big Boy” can save you a surprising amount of job time and labor costs.

Four specially designed steel blades shovel material the full length of the elongated steel bowl, resulting in a fast, thorough mix.

Heavy duty engine, air cooled, Timken bearings, equipped with rotary magneto and impulse coupling for easy starting.

Low center of gravity, cantilever springs and industrial pneumatic-tired wheels assure safe, easy trailing.

YOU CAN DEPEND ON ESSICK EQUIPMENT
—PROVED IN USE FOR 28 YEARS!

Conventional 3½-S half-sack concrete mixers make only a barrow and a half per batch, but an Essick “Big Boy” mixes two full barrows of concrete each time! Workmen can deliver two full wheelbarrow loads in the same time it takes to haul the fractional 1½ barrow batch. Therefore, mixing concrete in 3½-S half-sack mixers can cost you hundreds of dollars in lost labor time!

Contractors everywhere who now use the “Big Boy” praise its two-barrow batch capacity and find that this unit actually makes up to 50% more concrete per day than half-sack mixers.

Essick mixer Model 350 mixes a one-barrow batch.
Model 93 mixes a three-barrow batch.


Mixing bowl fits over extra strong steel king pin and rests on adjustable Timken bearings.

Adjustable Timken roller bearings support jack shaft.

Mail coupon today for more information about Essick Concrete Mixers that will save you job time and labor costs.

TO: ESSICK MANUFACTURING COMPANY, DEPT. A8-4
1950 Santa Fe Avenue, Los Angeles 21, Calif.

Please send me more details about your Concrete Mixers that will save you job time and labor costs.

I am interested in a machine that mixes a one barrow batch. two barrow batch. three barrow batch.

I am also interested in other Essick equipment... (PLEASE NAME)

NAME
COMPANY
ADDRESS
CITY
STATE

Essick Manufacturing Co.
Los Angeles 21, California
Sales & Service—Coast to Coast
There are two sides to any guarantee. The words you read ... and the resources that back them up. From this point of view consider the Paine Rezo Door — a door made and sold on the basis of satisfactory service, without reservations.

This unconditional guarantee has been time-tried and time-tested by more than 4,000,000 installations ... a demand originating from architects and contractors so persistent and so repetitive that the world's largest mill work plants are now fully occupied producing Rezo doors exclusively.

When your plans call for Paine Rezo doors, you're looking forward to a positive future. See SWEET'S catalog — or write for an illustrated data bulletin.

Manufactured by the

PAINE LUMBER CO., LTD. Oshkosh
Wisconsin

ESTABLISHED 1853
A typical home in Levittown, N.Y.,
low-cost housing development.

15,000 HOMES LIKE THIS
equipped with B & G Hydro-Flo HEATING

This small dwelling is a typical unit in a group of 15,000 low-cost homes. Pipe coils in the floor, circulated with hot water by a B & G Booster Pump give occupants the unparalleled comfort of modern radiant panel heating.

B & G Hydro-Flo Heating is known the country over for its outstanding advantages... controlled radiant warmth... fuel economy... year 'round hot water. This forced hot water system permits a choice of baseboards, radiators, convectors or completely concealed radiant panels. Whatever your selection, you'll have the finest in automatically controlled heating.

A fuel saver
B & G Hydro-Flo Heating matches the heat supply to the weather—never wastes fuel by overheating the house. This accurate control is especially important in fall and spring, when only a little heat is needed. All through the heating season, indoor temperature is maintained constantly at the comfort level.

No job too big or too small
Hundreds of thousands of B & G Hydro-Flo Systems are in operation today. You'll find them in small homes, apartments, commercial and industrial buildings, providing the same comfort and economical operation regardless of size.

Send for this booklet
The whole story of B & G Hydro-Flo Heating is told in this completely illustrated, 4-color booklet. Send for your copy—read it before selecting the heating system for your next job.
Home buyers are demanding reinforced concrete foundations, floors, driveways and sidewalks, as insurance against disfiguring and cracking. That is why so many building contractors are using American Welded Wire Fabric for concrete reinforcement.

Closely and accurately spaced, the many high tensile strength steel members of American Welded Wire Fabric strengthen the concrete slab. They minimize the effect of crack-causing stresses and strains due to unequal loading caused by settling of the ground.

American Welded Wire Fabric, the world's most widely used reinforcement for concrete, has proved to be definitely superior to other types of reinforcement during years of practical use and in sample slabs tested to destruction.

American Welded Wire Fabric is easily handled, quickly laid. Reduce costs—build more sales pull into every dwelling — use U·S·S American Welded Wire Fabric.

Every type of concrete construction needs

AMERICAN WELDED WIRE FABRIC reinforcement

AMERICAN STEEL & WIRE COMPANY, GENERAL OFFICES: CLEVELAND, OHIO
COLUMBIA STEEL COMPANY, SAN FRANCISCO, PACIFIC COAST DISTRIBUTORS
TENNESSEE COAL, IRON & RAILROAD COMPANY, BIRMINGHAM
SOUTHERN DISTRIBUTORS
UNITED STATES STEEL EXPORT COMPANY, NEW YORK
Double Bulls-Eye!

Two Popular NATIONAL LOCK Hardware Items That Exactly Meet Your Market Requirements

No. N61-380
National Tutch Latch is a substantially-built, easily-applied latch for use on wood cabinets. Completely concealed from exterior view, it opens door automatically at the simple touch of finger, wrist, arm, elbow or knee. Slam door shut or close it gently... Tutch Latch holds securely, provides positive latching action. Envelope packaged for your convenience in handling.

They’re Available! They’re Profitable! Get Them from Your Regular Supplier

No. N61-336 Rubber Roller Catch
Inexpensive, yet remarkably effective in operation. Fills the bill perfectly in a wide range of applications. Quiet. Flexible. Has free-wheeling rubber rollers. Sturdily built to last. Rust resistant finish. Strike has marker prongs to simplify installation. Careful inspection proves this to be the finest rubber roller catch on the market. It’s envelope packaged.

NATIONAL LOCK COMPANY
Rockford, Illinois - Merchant Sales Division
Distinctive Hardware... All from 1 source

APRIL 1951
DELCO-HEAT Units
give home buyers the value, dependability
and features they want

Check the specifications of these outstanding General Motors products!

"GA" series Gas-fired Conditioners. These forced warm air furnaces feature
multi-section heat transfer systems, with
electrically welded Multi-Rad radiators
that completely enclose the flames of
double ribbon-type burners...insuring
the extraction of maximum heat from
the fuel. Delco Rigidframe motors on
blowers. AGA-approved for all gases
and for high altitude installations.

<table>
<thead>
<tr>
<th>Model (Available with either 12 or 16 gauge heat exchangers)</th>
<th>Dimensions</th>
<th>Blower</th>
<th>AGA-Approved Ratings Btu per Hour (in thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA 63, GA 90, GA 120, GA 150, GA 210</td>
<td>Height: 26in, Width: 26in, Depth: 26in</td>
<td>RPM: 550, CFM Max: 550</td>
<td>Input: 62.5, Output: 60</td>
</tr>
</tbody>
</table>

"S" series Steel Oil-fired Boilers. Here are the perfect units for radiant
heating systems in small homes—and
for conventional steam and hot water
systems, too. Have famous Delco-Heat
pressure atomizing burner, powered by
Rigidframe motor. Provide year-round
hot water for household use. Available
in both deluxe and round-jacket models.
Also larger capacity, cast iron boilers.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Oil Burner</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Btu per Hour Output</td>
<td>E.D.R.</td>
<td>Round Jacket Height: 26in, Width: 26in, Depth: 26in</td>
</tr>
<tr>
<td>264,000</td>
<td>348</td>
<td>49</td>
</tr>
</tbody>
</table>

"OPC" series Oil-fired Conditioners. Value priced! Blower-filter unit may be mounted beneath or behind furnace. For basement, utility room or alcove installations. Features Delco-Heat pressure atomizing burner and Rigidframe motors. Deluxe model, with matching furnace and blower units, also available.

New homes sell better when they're equipped with Delco-Heat!

Delco-Heat manufactures a complete line of
domestic home heating products—for all fuels,
all heating systems, and all sizes of homes.
And our engineering and sales departments
will be glad to serve you in any way possible.
Also manufacturers of electric water systems
for domestic water supply. For information
about Delco-Heat products, write to Delco
Appliance Division, Dept. AB-24, General
Motors Corporation, Rochester 1, New York.
5 NEW FEATURES

**DeWALT**

1. **DOUBLE ROW grease-sealed-for-life BEARINGS**
   Double row bearings on carriage head mean more rigidity—and greater ease of operation.

2. **4 MOTOR CAPACITIES**
   Available in 2 H.P. and 3 H.P. single phase
   3 H.P. and 5 H.P. three phase

3. **TOTALLY-ENCLOSED FAN-COOLEO MOTOR**
   At no greater cost than open motors.

4. **2 ARM LENGTHS**
   You can cross-cut 1" stock in 16" and 24" widths, and rip a maximum of 36".

5. **LOW DEAD RISE 12% DEEPER CUT**
   Flat surface on bottom of motor permits greater use of cutting tool. You can use 14" saw blade and get 4½" cut.

Introduced a few months ago, this new DeWalt "Builder's Bench" has been a hit everywhere! Today—with the building market changing so rapidly—this popular, all-purpose DeWalt will be even more of a success.

It's the ideal machine to have on the job...no matter what type of building you do...whether you're building a single structure or a thousand.

You may already be planning changes in your building business...from commercial building...mass defense...military housing...stock the-cast metal housing...special wood structures, etc...

Make sure you know all the things DeWalt can do...it's helping you build better, faster and at less cost.

See the DeWalt...and other DeWals at your dealer's.

DeWalt models are available from 2½ to 7½ H.P.

Send the coupon for full information.

---

DE WALT, INC., Dept. AB-4, Fountain Avenue, Lancaster, Pa.

Please send me literature and complete specifications on the new DE WALT GR and GW.

Name:

Address:

City: State:
The hard use inflicted on plumbing fixtures in busy washrooms makes it important to weigh with extra care the factors of quality, price and maintenance. Case lavatories, urinals and water closets are constructed for this type of service. Molded of fine vitreous china, they are unsurpassed in durable surface luster and resistance to acids and discoloration. Fittings designed for these fixtures add to their long service life. Available with chair carriers. Please consult your Case distributor—listed in most Classified Telephone Directories—or write W. A. Case & Son Mfg. Co., 33 Main Street, Buffalo 3, N. Y. Founded 1853.
The growing popularity of DORFLO has created a widespread demand for a packaged unit which would simplify installation on the job. In response to this demand we now offer the new DORFLO READY-UNIT which accomplishes everything builders have been asking for—

**Dorfla** brings you **RECESSED DOORS** the Modern way

Dorfla gives you a combination of features never before obtainable with recessed doors. Just check your floor plans with the advantages of Dorfla in mind. You’re sure to find many situations where these Dorfla features will prove indispensable—

- It comes onto the job as an assembled wall section—with all hardware mounted on!
- It makes installation on the job easier... faster... more economical... and absolutely fool-proof!
- Complete assembly in just a few minutes—and the section is ready to be placed in rough wall opening.

For literature and further information concerning DORFLO or where it can be purchased, write to DORFLO MANUFACTURING CORPORATION 1904 First Avenue Hibbing, Minnesota

APRIL 1951
Select BILT-WELL

Yes ... select Bilt-Well Products! It's your greatest assurance of accuracy and dependability. Bilt-Well Products provide real beauty, splendid convenience and extra comfort in the home. Bilt-Well has an outstanding reputation built on more than three-quarters of a century of leadership in the manufacture of fine woodwork. Bilt-Well offers you a complete line of building woodwork, everything from Basement Windows to Attic Louvers.

CARR, ADAMS & COLLIER CO.
Dubuque, Iowa
BECAUSE.....
they give Homebuilders complete satisfaction.

BECAUSE.....
both Carpenters and Builders find installation simple, easy, and rapid.

BECAUSE.....
extra care has gone into making these products Better to Serve Longer.

BECAUSE.....
you can take pride in pointing to these products in your jobs.

Products

1 Made of kiln-dried Ponderosa Pine.
2 Accurately and skillfully made.
3 Sanded to a satin smooth surface.
4 Completely machined K. D. semi-assembled.
5 Carton packaged, in rare exceptions bundled.
6 Appropriate adaptations for all popular type homes.

Just look at these BILT-WELL features!

CARR-DOR GARAGE DOORS
Opens with the touch of a finger slides snugly overhead out of the way.

BASEMENT WINDOWS

CLOSTITE CASEMENTS

MANTELS

THE FAMOUS BILT-WELL LINE:

 Mantels & Telephone Cabinets - Multiple-Use & Linen Cabinets - Stair Parts - Nu-Style Cabinets - Superior Unit Wood Windows - Exterior & Interior Doors - Entrance & Shutters - Close-tite Casements - Carr-dor Garage Doors - Basement Unit Windows - Louvers & Gable Sash - Breakfast Nooks - Combination Doors - Screens & Storm Sash - Corner (China) Cabinets - Glider Cabinets - Irving Board Cabinets

BILT-WELL WOOD WORK
The proved engineering principle of the arch has stood for centuries as one of man's most beautiful and useful creations. This is why HASKO ARCH-KOR DOORS, utilizing the strength of the arch, and only the finest of materials and craftsmanship in their construction, have been of similar value in building and upholding the wholesalers' and retailers' reputations as suppliers of quality materials. Because there is always a demand for quality, HASKO DOORS have risen to a position of top leadership in their field... another proof of their worthiness of your endorsement and use. Ask your supplier for HASKO DOORS. Write for complete information.

HASKELITE MANUFACTURING CORP., Grand Rapids 2, Mich.


Hasko ARCH-KOR and SOLID-KOR Flush Doors are available faced with birch, mahogany, oak, maple, walnut, and gum.

One of the world's largest manufacturers of plywood, metal clad plywood, and other laminated materials for use in industrial and consumer products.
VENTO STEEL CASEMENT WINDOWS

Extension type hinges for ease in cleaning. Gracefully designed Roto or Lever type operators and locking handles, as specified, allowing ventilator adjustment without screen removal. Positive cam action locking handle insures double contact weathertight seal around perimeter of the ventilator. Steel fins are designed for anchorage of casements into masonry, block and some brick veneer-frame walls.

VENTO "CHAMPION" BASEMENT WINDOWS

Effortless operation gives any of three ventilation openings, or sash removal. Double contact with leak-proof watershed sill stops wind and rain. Sturdy 14 gauge frame, electrically welded throughout. Fins welded to jambs for easy installation in block or poured concrete walls. Available in three standard sizes, putty or puttyless glazing.

VENTO "THRIFTY" BASEMENT WINDOWS

A real economy window especially designed to meet the requirements of lower cost housing. An attractive window of sturdy construction, smooth operation, two position ventilation and easy sash removal. Fin flanges at jambs for quick installation. Available in three sizes, putty type only.

VENTO "CHAMPION" UTILITY WINDOWS

Fully welded construction. Ventilator tilts in at top for normal ventilation and protection against drafts and rain. Each sash furnished with a positive cam action lock. Rigid and weathertight, Vento Utility Windows are especially suitable for a wide range of small commercial buildings, stores, warehouses, small factory buildings, garages and service stations. Vento "Champion" Barn Windows are similar to the Utility types but with the addition of side draft shields.
HOW TO INSTALL Thermopane

...in a low-cost window wall

Here is a simple way to construct an insulated window wall. Dressed dimensional lumber is used to double as structural members and as frames for Thermopane® units. This method cuts material costs and man-hours to rock bottom. Many builders have found it a way to offer the benefits of an insulated window wall in even low-cost homes. See details below. For more complete information on this method mail the coupon.

---

**Thermopane**

Look for the name on the seal between the panes

---

For better vision specify Thermopane made with polished plate glass

---

American Builder
INSULATING GLASS...

...in a simple wood frame

Thermopane presents no difficult installation problems. However, it differs from single glazing methods in several important ways, such as depth and width of rabbet, use of setting blocks, etc. The details shown here may prove helpful in planning simple wood frames for picture windows and window walls with Thermopane units 1" thick. For units ½" thick make suitable allowance. For more complete information, mail the coupon.

1. Make a simple frame of dressed lumber, preferably redwood, ponderosa pine, sugar pine, cypress or fir. Use 2 x 6’s for sides and top, and 2 x 8’s for sills. Rout out sill for drip and siding grooves; also, plane a bevel on outer portion of top surface of sill for water drainage. Inside dimensions of frame should be 1½" larger than size of Thermopane unit to be installed.

2. Nail on a spacer strip ½" thick x ½" wide (lattice strips may be suitable) around the inside of the frame to form an opening in which the Thermopane will be glazed. Heads of nails must not protrude.

3. Simple frame is placed in opening. Make sure that frame is square and plumb, that sill member is flat and level. A: Center of opening. B: Points midway from center to outer corners where setting blocks are placed.

4. Section shows how Thermopane rests on setting blocks and is cushioned by 1¼" bed (A) of glazing compound on each surface of the glass.

5. Section, left, shows how stool can be used as backstop for the Thermopane unit. To the right is an alternate method.

6. Same section as illustration at far left but backstop does not double as stool. Plain trim covers joint of sill at interior wall.
THESE Superior Features

MIRROR-SMOOTH, HI-BAKED ENAMEL SURFACE. COMES IN 18 BEAUTIFUL COLORS - 4 MODERN DESIGNS.

FOR WALLS, CEILINGS, FLAT OR CURVED SURFACES, ARCHES, RECESSES.

BEAUTY PERMANENCE ECONOMY ALL COMBINED IN ONE

EASY TO CLEAN — A DAMP CLOTH QUICKLY RESTORES ORIGINAL LUSTRE AND NEWNESS.

EASY TO INSTALL. ONCE APPLIED IT NEVER NEEDS RE-PAINTING OR RE-FINISHING.

WILL HELP YOU SELL MORE Miracle Walls by TYLAC

Wherever it is installed Miracle Walls by TYLAC builds greater satisfaction for your customers — more good will and more profits for you.

There is a wide need for TYLAC — in homes, stores, offices, schools, hotels, hospitals and public buildings of every kind — for new construction or modernization. Its sparkling hi-baked plastic enamel pre-finish offers a practical beauty, a permanence and utmost economy of installation and upkeep — that appeals to every taste, in every market — large or small.

Tylac helps you make "extra profit" sales, such as: Tylac Super Cement, Tylac Touch-up, Tylac Calk, Tylac Wax Base Polish, and other products. Why not join the ranks of prosperous TYLAC dealers — for more satisfaction — for greater Sales and more Profits.

Write today for our new liberal Sales Plan, our many Advertising and Dealer Helps, Displays—prices and discounts.

TYLAC COMPANY MONTICELLO, ILLINOIS
PIONEERS IN THE PREFINISHED WALL PANEL INDUSTRY
Plywood Means Profits
When You Sell Roddiscraft

FOUR ESSENTIALS . . . BASIC TO PLYWOOD PROFITS

1. Big Markets! Wherever wood is used, Roddiscraft Plywood is recognized as a material combining strength, utility, beauty and economy. In residences, apartment houses, schools, hospitals, commercial buildings and institutions, the demand is big . . . and growing every day.

2. Top Quality Plywood! Real Sales Features! The best demands no shortcuts. There are no shortcuts in Roddiscraft manufacture. All materials are carefully processed — bonded with the best adhesives in hot plate presses — sanded to satin smoothness — and carefully stored under proper conditions. You can depend on Roddiscraft quality.

Then, too, your customers will like this. The first cost is practically the last cost with Roddiscraft Plywood. Figures obtained from well known building authorities indicate that over a period of ten years or less, based on using 1/4" plywood, the average cost of a paneling job will be no more than that of an ordinary plaster job using paper or paint finishes requiring constant maintenance. Beyond that period, the negligible amount of maintenance needed to preserve a panelled wall results in real savings to the building owner.

3. Wide Variety to Suit Every Customer! Roddiscraft warehouses carry complete stocks to meet your needs. Call on yours for * Douglas Fir * Birch * Maple * Gum * Pine * Cupboard Door Stock * Oak * Mahogany * Walnut * Prima Vera * Blonde Limba * Avodire * Chen Chen.

Other woods available from the mill on special order.

4. Available When You Want It! A nationwide warehouse service makes delivery of Roddiscraft Plywood fast and reliable. For prices and prompt service get in touch with your nearest Roddiscraft warehouse.

Roddiscraft
RODDIS PLYWOOD CORPORATION
MARSHFIELD, WISCONSIN

NATIONWIDE Roddiscraft WAREHOUSE SERVICE
Cambridge 39, Mass. . . . 279 Vose St
Charlotte 6, N. C. . . . 123 E. 27th St
Chicago 22, Ill. . . . 3945 W. 41st St
Cincinnati 2, Ohio . . . 457 E. Sixth St
Dallas 10, Texas . . . 2807 Meddil St
Detroit 14, Mich. . . . 11151 E. Jefferson St
Houston 19, Texas . . . 2403 Sabin Rd
Kansas City 3, Kan. . . 35 Southwest Blvd
Los Angeles 58, Calif. . . 2620 E. Vernon Ave
Louisville 10, Ky. . . 1201 S. 15th St
Marshfield, Wis. . . 115 S. Polkette St
Milwaukee 9, Wis. . . 4601 W. Shore St
New York 35, N. Y. . . 920 E. 44th St
Pittsburgh 19, Pa. . . 1101 March St
Philadelphia 34, Pa. . . 9349 & Tioga St
St. Louis 16, Mo. . . 2344 Morganford Rd
San Antonio 7, Texas . . 727 N. Cherry St
San Francisco 34, Calif. . . 345 Williams Ave
New Hyde Park, L. I., N. Y. . . 3200A. & S. 18th St

APRIL 1951
For jobs that stay sold... bring you

THIS OPEN-VISION drug store in Montreal, Canada, is an excellent example of what can be achieved in store modernization with Pittsburgh Products. Merchants know that a store like this stops more passers-by, impels them to enter, increases sales. They know, too, that Pittsburgh Glass Products are leaders in the store modernization field. In your locality there are undoubtedly scores of prospects for store remodeling work. Make sure you use Pittsburgh Products. The complete line, the wide range of designs possible with Pittco Store Front Metal, and the installation knowledge and experience of Pittsburgh's artisans combine to give your customers the best possible jobs. Architect: Elia Vincelli, Montreal, Canada; Contractor: O. Langlois, Montreal.

WITH READY-BUILT Carrara Structural Glass Panels, the high quality, enduring beauty, permanence and ease of cleaning inherent in this wall material are available to low-cost homes. These panels were developed for use in bathroom recesses and for stove backs in the kitchen. Prefabricated units, assembled at the factory, their installation is quick and easy. There's no cutting on the job and this reduces your labor costs substantially. Like fine Plate Glass, Carrara is mechanically ground and polished to a flawless, brilliant surface. It won't stain, fade or discolor with age. It doesn't absorb odors. It's not affected by grease, grime, grit, acids, water and pencil marks. And Carrara Glass is available in ten attractive colors.
more business...

Pittsburgh Glass can help you!

A GOOD MIRROR is indispensable in the bathroom. And in any room in the home, wall mirrors add charm and sparkle, increase the apparent size of the room. When you include Pittsburgh Mirrors in your homes, or in remodeling plans, you impress your customers with the fact that they are getting plus value for their money. Pittsburgh Mirrors are available in types and styles for every structural and decorative need. They are made from genuine Pittsburgh Plate Glass, offering superior reflectivity. Tourists Hotel, Allentown, Pa. Architects: Malcolm Groser Duncan and W. Lee Moore, Scarsdale, N. Y. Contractor: Straight Construction Corp., New York City.

USE TWINDOW, Pittsburgh's window with built-in insulation, in your homes. Recommend it to homeowners who plan on remodeling. The demand for large, insulated windows is increasing. And Twindow is the ideal unit for this work. It's a completely prefabricated window, consisting of two or more panes of Pittsburgh Polished Plate Glass, with a hermetically-sealed air space between. The entire assembly is enclosed in a stainless steel frame which makes handling and installation safe and simple. Twindow reduces heat loss through windows, minimizes downdrafts, adds to inside home comfort the year around. Under normal conditions, Twindow reduces the tendency for condensation to form. The cutaway view below shows the construction of a Twindow unit with two panes of Plate Glass. Architect: Ray Stuermer, Chicago, Ill.

Build it better with Pittsburgh Glass

See the complete listing and descriptions of Pittsburgh Plate Glass Company products in Sweet's Catalog Files.

PAINTS - GLASS - CHEMICALS - BRUSHES - PLASTICS

PITTSBURGH PLATE GLASS COMPANY

APRIL 1951
Things to Look For When Buying A Radial Power Saw

Long Productive Life

Long, trouble-free service from your radial power saw lowers its cost per day of operation. Comet saws...designed to be trouble-free, last longer and have lower maintenance cost than any other saw. Comets cost less to operate...make more profit for you.

COMPLETELY WEATHERPROOF

Comet Saws will not rust! All exposed parts are chrome or cadmium plated or covered with heavy enamel.

RUGGED CONSTRUCTION

All Comets are built of tough materials—designed for rough use in the field. Semi-steel castings and moving parts of hardened steel provide maximum rigidity, strength and accuracy. Radial arm rides on eight completely enclosed permanently lubricated ball bearing rollers. Precision milled bearing tracks assure free, easy operation.

EXTRA CAPACITY MOTORS

Comet Saw motors are rated to provide 100% overload capacity. Available in 1 to 10 h.p. with speeds from 1200 to 3800 r.p.m.—ample power for any job.

Other Features That Make Comet Saws Your Best Buy

Comet controls are grouped within easy reach of operator to save time and increase production. Fully retracting radial arm keeps work always in plain view. Heavy oiled felt wipers permanently seal radial arm bearings from dirt damage. All exposed power cables are protected by flexible metal conduit. Exclusive safety return spring greatly increases saw production—cuts operator fatigue to a minimum—acts also as safety stop and helps return saw to starting position.

With all these advantages, Comet saws cost no more than others. They do more work and last longer. They are your best buy! Over 50 different combinations to fit your requirements. See your building machinery dealer or write for further information.

THERE'S A COMET SAW DESIGNED FOR YOU

THE JUNIOR
Up to 1/4 h.p., cuts 4" deep, 16" wide, rips material 25" wide.

THE COMET CLIPPER
Up to 5 h.p., cuts 4-1/2" deep, 16" wide, rips material 29" wide.

THE COMET SENIOR
Up to 7-1/2 h.p., cuts 6" deep, 22" wide, rips material 48" wide.

THE SENIOR 8"
Cut off Saw—up to 10 h.p., cuts 8" by 10" timbers.

THE TIMBER CUTTER
Up to 10 h.p., cuts 16" by 16" timbers.

SEND COUPON FOR MORE INFORMATION

CONSOLIDATED MACHINERY & SUPPLY CO., LTD.
2031 SANTA FE AVENUE - LOS ANGELES 21, CALIFORNIA

156 American Builder
How to Catch an Eye
(and/or) a Sale

Whether you’re designing a house for an individual owner—or building houses to sell—a sure way to catch a prospective owner’s approving eye is to use Curtis Woodwork. More plainly than in words, Curtis Woodwork says: “This is a quality house built for a lifetime of comfortable, happy living.” Yet Curtis’ large production of Architectural Woodwork enables you to get this effect at very reasonable cost. For instance—

A Curtis entrance design which recalls many doorways to be found in the New England area. The entablature with its bowed face, dentil course, and pilaster beading, all contribute to the beauty of an entrance that is suitable for most any type home. Curtis Entrance C-1750 —Door C-1040.

Formal and dignified is this very beautiful Curtis cabinet—often used in pairs as here. It is made for corner use only and is shipped completely assembled. This is Design C-6505. Curtis makes cabinets in all styles and sizes and priced to meet every budget.

This Curtis mantel fits gracefully into a traditional or modern interior. It is pictured here in a beautiful Ranch Style home. Curtis mantels, like all Curtis Woodwork, are made with the skilled craftsmanship used for fine furniture. This is Curtis Design C-6035 —one of several styles.

Curtis Companies Service Bureau
AB-4W Curtis Building
Clinton, Iowa
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708 Apartments—708 Kelvinators! Soon to tower over Philadelphia’s beautiful Rittenhouse Square, the new Rittenhouse Savoy (left) and Rittenhouse Claridge (right) will offer “new concepts in modern living.” Both projects will feature panoramic windows, year ’round air conditioning, sound-proofed cork hallways, autotronic controlled elevators. There will be a Kelvinator refrigerator for each of the Claridge’s 482 apartments, a Kelvinator for each of the Savoy’s 226 apartments. Co-sponsors are Kevy K. Kaiserman and Matthew H. McCloskey. Architects are Samuel I. Oshiver, J. Raymond Knopf and J. Ethan Fieldstein. Builder, McCloskey & Company, Inc.

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Refrigerators, Ranges, Freezers, Water Heaters, Air Driers... Electric, of course!

Kevy K. Kaiserman
President of Claremont Corp. and Plaza Square Corp.
Unify Purpose

When Regulation X was issued the Housing and Home Finance Agency announced a goal of 800,000 to 850,000 housing unit starts for 1951. It was assumed by the industry that the goal announced by HHFA represented a government policy for housing. The same assumption undoubtedly was made by HHFA. But up to March 1 prohibitions on the use of various metal items for housing, and large demands on plywood production for military purposes, indicated that military authorities and probably other departments of government did not feel themselves bound to the announced goal for housing.

First, the copper order, later relaxed with respect to tubing, posed a problem to the manufacturers of builders' hardware. No one apparently knew what could be done about producing enough hardware to supply 800,000 units. In the closing months of 1950 military authorities began to exercise their rights under the declarations of intent which had been signed by plywood producers. This bound the producers to supply up to 50 per cent of production for military requirements. By the end of December, 24 per cent of plywood production was going to the military, and there was reason to believe that the percentage would increase.

Late in February the aluminum order was issued. This prohibited the use of aluminum after June 30 for windows, storm sash and in heating, ventilating and air conditioning ducts. It is true that no one of these three requirements can stop building. But it is also true that each of them presents a serious problem to many builders, and with other orders reported to be contemplated, can cut building starts to much less than the announced goal. In the case of aluminum and builders' hardware critical unemployment can result at a time when high earnings are essential to meet the increased tax load.

HHFA's Regulation X and announced goal for housing starts, NPA's restriction orders on the use of materials, military's requisitioning of plywood and Treasury's demand for higher income and other taxes, indicate that only HHFA has an interest in 800,000 to 850,000 housing starts for the year, that only Treasury is interested in having incomes to tax, and that NPA and the military establishment are interested only in military requirements. Certainly each is entitled to its own primary interest, but not in the fulfillment of that interest at the expense of the other three.

It is time for unification of purpose if the national economy is to be preserved while adequate national defense is being provided. Without such unification the economy will not survive and there will be nothing left to defend. It is also time that industry was given a voice in the drafting of prohibitions, such as aluminum. Fabricators of aluminum building products are convinced that the base used for the restriction is wrong, that the order is not necessary, and that it will result in a surplus of raw aluminum by mid-year, and no fabricators left to use it. Housing should have a priority next to food, and all government departments should be so advised.
Living Quality of Modern Proved by

Freedom expressed in the use of space and design in lumber dealer's latest home is the result of satisfaction obtained from his first venture in modern planning and living.

AN APPRECIATION of the design quality, comfort, and economy of the flat roof house was impressed upon Clarence A. Thompson, Champaign, Ill., when he built his first home of this type a number of years ago. In planning his new home, Thompson again chose the advanced styling, incorporating features of the original model together with a group of interest-adding refinements.

The new home, designed by Simon and Rettberg, architects, who were recently on the staff of the Small Homes Council, University of Illinois, re-introduces a number of the principles and features of the first house (September 1947 American Builder). These include vertical wall louvres and access panels for room ventilation, the omission of exterior wall sheathing, use of baseboard heating, drywall construction and plywood veneer for wall surfacing. An interesting fact is the increase in square foot costs, from $8 in 1947...
Experience

when the first house was built, to $12 in 1949 when the present house was completed. The house was built on a cost plus basis by B. B. Bunn & Son, Champaign, Ill., for a total cost of $45,000.

In building and living in two houses of similar types Thompson had a splendid opportunity to compare the relative merits of some of the features of the first house. The concrete slab floor of the old was changed to crawl space under wood joists in the new. The primary reasons for the change were site conditions and the fact that the open area would allow easy access to heating pipes in case of maintenance. This lumber dealer has assured himself that exterior sheathing in the wall construction is unnecessary. The exterior finish of 3/4-inch Weldtex plywood is glued, nailed and butted directly on the 2 x 4 studs. This is a stress-skin principle that is satisfactory and economical. This method is used only where penetrating oil stains are used for the finish.

A feature of the house is the extension of the front living room wall to include the clearstory windows. The raising of the center unit breaks the continuous level of the roof line and increases the height of the living room. The extension of the roof over-
LIVING ROOM is given added height through use of sloping ceiling. Fireplace is of Indiana limestone.

DINING ROOM is part of all-purpose room.

hang to form a covered passage between garage and house is primarily an architectural feature that forms an interesting geometrical pattern. Overhang is supported by a grouping of 2 x 8 wood posts.

A feature of the plan which contains approximately 2500 square feet including a two car garage is the combination dining room and recreation area. Three bedrooms, two baths, kitchen, storage and laundry complete the plan arrangement.

Materials used in the Thompson home include Anderson wood sash; Johns-Manville rockwool insulation; Sisalkraft aluminum vapor barrier; Schlage hardware; J-M built-up roofing; Thermopane and Twindow glass; Bruce oak block flooring; Kentile floors; Crane Co. plumbing fixtures; Morgan Co. wood cabinets; Nu-Tone kitchen fan; Janitrol gas-fired boiler, Taco water heater.
BATHROOM has double lavatory arrangement with continuous counter for children's use.

KITCHEN with battery of windows on north wall provides excellent light for work, meals.

BOYS' BEDROOM is divided by double storage wardrobes with built-in desks on each side.

HINGED WOOD PANELS used with exterior louvres ventilate rooms with sealed windows.
ONE of five different exterior treatments of a single basic split level plan—dark colored shingle siding with white trim

Five Elevations—One Split-Level Plan

Good variety in exterior was achieved by judicious selection and use of combinations of different exterior materials along with careful choice of trim and color treatments

VERTICAL siding was used on the house at the left. At the right is a combination of brick veneer and vertical siding
The careful selection and effective use of a good variety of exterior finishes with a single basic split-level house plan enabled Bradford W. Stiles to offer five distinctive elevations of a single model home in his Rollingwood community development at West Hills, Long Island. In addition to his combinations of siding, shingles, vertical siding and brick veneer, his variation in colors for roofs and trim as well as the body of the houses, permitted still more distinction in the individual homes.

The three bedroom units, located on one-third acre plots, are priced between $14,000 and $15,000. This includes a fully equipped kitchen with natural wood cabinets, breakfast bar, gas range, refrigerator, combination washer and dishwasher, and a 10-inch exhaust fan. The partial basement, which comprises the first level, includes the garage and an additional room suitable as a children's play area, workshop or hobby room. The crawl space under the second level has a concrete floor and is suitable for storage use.

Standard treatment in the living room includes a beamed ceiling, wood burning fireplace, built-in bookshelves and cabinet, two large 12-paneled studio windows and a Dutch door leading to an 8 x 10 flagstone terrace at the rear of the house. The small bedroom is paneled in pine with a built-in bunk. Floors in the living room, dining room and bedrooms are oak. Walls and ceilings are insulated with mineral wool. The heating system is forced warm air with an oil-fired furnace.

Stiles claims that in using the split-level plan, he can convert a maximum amount of space in the house to livable, usable area at less cost. At the top level, there is a short
stairway to a large attic storage area, making it easily accessible for regular use. By avoiding monotony with a variety of distinctive exteriors, the framing and interior layouts on every house could be uniform, thus achieving economies in time required for cutting and assembling the materials.

For those prospective home purchasers who wanted larger, more elaborate homes, Stiles planned and erected a new conception of the split-level house, combining modern and colonial characteristics in its design. This model, which was offered at $25,500, has five levels with six steps between levels. The lowest basement level, approximately two-thirds of which is below grade level, includes garage, heating unit, and space for a hobby shop or basement playroom. A half flight of stairs leads to the living-dining level, which includes a 32-foot long living and dining area with built-in bookcases and wood burning fireplace, a large center hall with coat closet and guest closet, a pass-through service bar to the kitchen and the kitchen itself, equipped with an electric dishwasher, clothes-washer, range, refrigerator and exhaust fan.

The third separate level has two large bedrooms with a bath. Closets have sliding doors in these bedrooms. Two more bedrooms and a bath with a shower stall are on the fourth level, which also includes a large storage area back of the knee wall. A fifth level, not shown on the plan, can be used as a large multi-purpose room, adaptable as a children's playroom, sitting room, television room or additional bedroom. There is still another level which can be used as attic storage space. These houses are also set on one-third-acre plots in the wooded development.

The EXTERIOR of this large, four-bedroom split level house conceals the fact that it has rooms at five different levels.

The FIRST FLOOR PLAN shows the large center hall which gives privacy as well as easy access to second-level rooms.

The SECOND FLOOR PLAN illustrates the large attic storage area and the various rooms and layouts.
ADOBE—one of the oldest and simplest of building materials—has far more than a historical interest for Lloyd G. Clark of Studio City, Calif. Clark has been specializing in adobe construction for five years and is highly enthusiastic about its adaptability for current home building, predicting an excellent future for the ancient material.

Principal reason for growing popularity of adobe in Southern California, Clark said, is that it gives a distinctive, rustic appearance which cannot be duplicated with any other material. Other advantages cited: it gives perfect thermal insulation as well as insulation against sound; it is fireproof, waterproof, termite- and vermin-proof and earthquake resistant; and no maintenance is required; it is plentiful and will never be in critical supply; it is inexpensive in itself and, because architectural simplicity characterizes the structures it is used for, permits lower total costs.

Clark first became interested in the material through seeing some of the famous California Spanish missions. Hundreds of years old, their adobe walls are intact despite never having had paint or care of any kind. A little research on the product revealed that it has been extensively used throughout this country and Europe and that in Palestine there now stands an adobe wall reputedly built around 1000 B.C.

In planning his adobe homes, Clark works almost entirely with one architect, Maurice H. Robertson of Los
RAFTERS are nailed to wood plate (ordinarily a 2 x 6) bolted to top of the bond beam.

SAME MASONs who lay the blocks usually make them between construction jobs.

Angela, who has made an extensive study of the material. The two agree that in true adobe architecture the design is kept simple. Interior surfaces are usually left natural, or painted; plaster is seldom used. Interior trim is held to a minimum. Beamed ceilings of heavy timbers are popular. The material, traditionally identified with the Spanish architecture in the southwest, has proved well-suited for modern and ranch-type design.

Clark makes his own blocks in Van Nuys, Calif., where he has a big batch mixer and plenty of space for curing. Machine-made blocks are available but he feels they are too "precise" in appearance. Except for scientific determination of proportions of sand and clay and waterproofing with an asphalt emulsion they are made in much the same way the Indians made them centuries ago.

Standard blocks are 16 inches long, 8 inches wide and 4 inches high. Special sizes are made for sills, trim, etc. Ideal soil for making the blocks is 70 per cent sand, 30 per cent clay. Clark does preliminary field testing himself, but before accepting soil has conclusive laboratory checks made by the Standard Oil Co. of California. His crew of four men can produce about 1,000 blocks a day; one man tends the mixer, two handle the wheelbarrow and the other packs the forms.

Made of cold rolled steel, the forms cost about $10 each. Only two are needed for each size of block since they are removed as soon as the mix has been packed into them. The mix has the consistency needed to retain the general shape of the form but develops a little bulge or "slump" which has come to be recognized as characteristic of adobe.
Clark likes to use adobe mortar because of its darker shade, but the Los Angeles code calls for cement mortar which is considered slightly stronger. Mortar joints can be rough, harmonizing with the blocks' appearance, or smooth when exterior painting is desired. Smoothing is sometimes done by rubbing cement into the joints after the blocks have been laid. A sealer coat of asphalt paint is used because of the asphalt emulsion in the blocks, but the final coats can be lead or oil paint. No waterproofing is needed.

Footings for the adobe buildings are of standard depth, but the width must conform to the width of the walls. Blocks are applied in two courses with grout joints between. Plumbing pipes and electrical conduit are carried in the grout joints. Strips of 1-inch 18-gauge reinforcing wire mesh about 12 inches wide are applied at intervals of two feet on the wall; and a reinforced concrete bond beam consolidates the whole structure. A channel for this beam is created by using narrow blocks on both sides of the opening.

Door jambs are set in place and propped up before block-laying is started. To each jamb is nailed a 1 x 4-inch fin which protrudes three inches between blocks, holding the jamb in place and also providing an air and moisture seal. Windows and switch boxes are set in place as the laying progresses.

When frame partitions are used, 10-inch foundation bolts with hooked ends are set into the grout between blocks and the partitions bolted to the walls. A wood plate for nailing rafters is bolted to the top of the bond beam. If cornice moldings are used they are nailed to the wood members at the ceiling.
Converting

Attics into Bedrooms

is becoming a bigger part of the business
of builders and dealers because of the
large number of growing families which
are occupying small homes erected
since the war with expansible attics

The large number of small homes with unfinished
attics or second floors built since the end of World War
I is developing an increasingly large volume of business
for builders and dealers. Young couples who purchased
these houses are rearing families, many with two, three or
more children. As the family expands, the need for addi-
tional sleeping and living areas makes it advisable and
sometimes necessary to complete the unfinished attic.

A trim bungalow in the suburbs of Minneapolis, Minn.,
offers a typical example of how a modest attic can be
converted into a useful room. The house was several
years old. When it was built, the builder had included de-
tails for future completion of the second floor, just as a
great many of his colleagues did in houses of this type all
over the nation. The house measures 26 x 30 feet over-
all and it had a roomy attic with hundreds of feet of usable
space. Also typical of so many small houses built since
the war, the attic stairway was already in and the sub-
flooring had been laid by the builder. The owner of this
home is a Navy veteran and his wife with a boy, a girl
and a newly-arrived baby.

Although every family has its individual requirements
and ideas on what should be done in expanding the attic
to satisfy the need for additional living space, this job was tailored for the household mentioned. As finally drawn, the plans included a bedroom, a children's play area, space for sewing and additional storage space.

Whenever attics are completed, they become a permanent part of the existing house and home owners should be discouraged from doing the job in a haphazard or temporary manner. If there is to be any plumbing, it should be installed according to existing codes with good quality materials. The same is true of heating and electrical installations. In many cases builders roughed in plumbing and stubbed heating ducts to the attic in expansible houses, thus making it easier for him or another builder to come in and have the balance of the work completed by qualified tradesmen.

In this particular house there is no plumbing on the second floor. Subflooring was in place and some of it had to be removed to install the heating ducts and wiring. The insulation previously placed above the first floor was left intact.

Although louvers had been installed in this house when it was built, it is imperative that when an attic is com-
pleted for living quarters and fully insulated that louvers of adequate size are in place. (See September 1950 American Builder, Page 94.) Good, efficient insulation on all sides and the ceiling of rooms built in an attic area is essential for year round comfort as well as heating economy. In this job, three-inch mineral wool blankets were installed with a stapling gun to hold the vapor barrier flanges to the studs until the wall board material could be applied.

Because economy was a factor in the completion of this attic job, as it is in the majority of similar cases, insulation board was chosen as the wall finish, except for the wainscoting and knee walls, where hardboard was used. A thin insulating board was used as backing for the hard board, so that when the two were applied, they equaled the thickness of the regular insulating board finish.

Where insulating board plank was applied vertically the walls were furred out with 1 x 3 strips, 16 inches on centers, to provide a firm surface for nailing.

Ceiling insulating board was applied in large sheets, 4 x 8 feet in size, and then scored every 32 inches with a special tool. The scoring not only adds to the attractiveness of the ceiling finish, but serves to conceal the joints. Lattice strips and moldings were applied to cover joints at ceiling, sloping wall and knee walls.

The fact that there was heavy insulation between the first and second floors, installed by the original builder, and because the family was attempting to hold total costs to a minimum on this job, the subflooring in the attic was sanded and finished so that it is satisfactory as a temporary floor. Plans call for finishing it eventually with rubber or asphalt tile.

The attic expansion job shown on these pages was selected by the Insulite Company for study as typical and a careful tabulation of all costs was made, with the exception of the carpenter-contractor labor. The other costs are as follows: Insulating Wool, 960 sq. ft., $48.00; Durolite Plank, 350 sq. ft., $34.00; Durolite Interior Board, 192 sq. ft., $13.50; Leatherite, 416 sq. ft., $62.40; Graylite wallboard, 352 sq. ft., $22.89; electrical wiring and fixtures, $35.00; heating ducts, $50.00; lumber, $80.00; hardware, $17.65; paint and sander, $18.00. Total, $381.44.
Planned for Maximum Lighting

New office building for architects incorporates latest innovations for maximum efficiency

In planning their new building, which is reasonably small and compact, and arranged primarily to accommodate their own activities, Mann and Company, architects, Hutchinson, Kansas, gave first consideration to the position of the large drafting room and the lighting of this and other rooms.

With the building placed on a north-facing lot, the drafting room was planned to spread across the entire front of the main structure. This in turn permitted an unusual fenestration with large windows extending to underside of open web steel joists. These windows are angled outward from the bottom to eliminate glare. A continuous planting box at the sill provides a decorative note.

The roof of the drafting room portion of the building, which has a sloping shed roof, extends above the roof of the adjoining rooms. A battery of directional glass block openings along the south wall of the drafting room is placed between the level of the two rooms. In this manner the drafting room is diffused with a soft controlled natural light on both sides.

Exterior masonry walls are 12 inches thick backed up with 8 inches of Haydite block. This block is exposed in the drafting, file and print rooms to take advantage of its acoustical properties. Surface of the block is painted a light color. U.S. Gypsum Pyrofil slabs are laid over the exposed open web steel joists to form the roof over the drafting room. Fiberglas insulation is placed between the slabs and the finished prepared roof.

The building is completely sealed with all Thermopane fixed units. A Carrier air conditioning system is located over the drafting room lavatory. This provides comfort for working in all kinds of weather. Heat, which is provided through a Bryant gas-fired boiler, is a combination of radiant coils in a slab supplemented with wall fin radiation and some standard cast iron radiators. Cost of the building was $45,000.
A Home for Two or More

A HOUSE PLANNED to be large enough to meet emergencies, yet small enough to be cozy, is a rare product. When this is accomplished, the house can be considered successful, both from the owner’s and builder’s standpoint.

This month’s Blueprint House, designed by Norman R. Johnson, architect, St. Paul, Minn., has the quality of being intimate and yet roomy. The three bedrooms are arranged in such a manner that if the family were small the bedroom adjoining the vestibule could substitute as a study, den or possibly, an office. The entrance door to this room is convenient to the vestibule while an opposite door gives direct access to the bathroom. No space is lost getting to the other bedrooms. A small service hall makes the bathroom available to all three rooms.

The fireplace positioned in the far corner of the living room is a happy arrangement. It makes a pleasant conversational area without intruding from the necessary traffic. Placement of the kitchen toward the front of the house is desirable. The entrance door then becomes just a short distance from the work area of this room. The two entrance doors to the garage, one front, one rear, make an efficient setup. Full basement completes an orderly arrangement.

The exterior follows the general trend in this type of house, except that points of interest on the street elevation are emphasized. These include the entrance with a moulded side frame; bathroom window with wood lattice screen acting as a shield; cutout blinds for main windows, and flower pot shelf at sill of corner bedroom window.

House contains 1117 square feet of living area, not including garage or basement. Garage contains 264 square feet.

Further information and complete ¼ inch scale blueprints available on this house from American Builder Plan Service, 30 Church Street, New York 7, N. Y.
Motor Court Construction—

Precast Slabs Permit 8-Foot Overhang

A pleasing, restful design, fire resistance, and savings in maintenance and insurance costs are highlights of Trails End Motor Court, St. Petersburg, Florida.

Among features of motor courts that appeal most to owners and to those who use them are fireproofing, sound-proofing, attractive exterior and interior appearance, and adequate domestic facilities.

These features, and others, were incorporated in the Trails End Motor Court in St. Petersburg, Florida, primarily through the use of a comparatively new building material for that area. The material, Flexicore prestressed concrete slabs, effectively enhanced the design through providing 8-foot overhangs. It increased fire-resistance of the structure to the tune of an $850 saving a year in fire and wind insurance.

Living rooms in the $175,000 motor court are 16 feet wide, and cantilevers on both sides are eight feet wide. A 32-foot continuous slab is required for the roof, and since this is more than the maximum length of Flexicore slabs, two 16-foot slabs were used. These are supported near their centers on the outside walls. A 12-inch space was left between the ends of the slabs in the center of the living room, where 12x10-inch steel reinforced beams were cast. Concrete, reinforced with 1/3-inch dowels, 2 feet O.C., was vibrated 18 inches into the Flexicore cores at the same time the beams were cast to form a solid roof structure.

Walker and Hank, contractors for the job, reported, “We were very well satisfied with installation of Flexicore. Although the installation was unusual with large cantilever overhangs and long slabs (up to 22 feet, 6 inches), Flexicore greatly expedited our job...”

In Trails End Court, 12,200 feet of Flexicore slabs were installed. Superimposed load requirements varied from 40 to 80 pounds per square foot. The built-up roof was insulated with up to 4 inches of vermiculite fill on top of the prestressed slabs and weatherproofed with tar and gravel. The ceiling of the structure was the exposed edge of the slabs, painted.

Though Flexicore slabs can and are used in many cases in warm air radiant panel heating, they were not in this case. Plumbing was installed in poured concrete floor and concrete block side walls. Vent stacks were installed through the Flexicore slabs. Electrical conduits were placed under the poured concrete slab floor, in the block side walls, and over and through the Flexicore before vermiculite concrete was poured.

Trails End Court, designed by...
Architect William B. Harvard of St. Petersburg, is one of the most attractive and desirable units of its kind on St. Peter-burg's Gulf Beaches. It has 21 units available for rent, ranging from 3-room apartments to overnight hotel accommodations. It is designed to give its patrons as many conveniences as possible, with a minimum amount of effort or disturbance to adjoining occupants.

The court is located directly on the Gulf frontage, with a wide private beach separating it from the water. The building has a 160-foot frontage, with two wings extending towards the Gulf. Parking facilities are conveniently provided at the rear of each unit. This area is near the cantilevered roof overhang, which provides shelter for a walkway that runs the full length of the rear of the wings.

The front of the Trails End units faces a large court and has an 8-foot-wide loggia, or open gallery, covered by the cantilevered roof construction. This extends the full length of the court. During inclement weather the cantilevered roof enables sheltered movement to any point in the project. Both the interior and exterior of the courts offer an appearance that attracts tourists and other clients. For

**BEAUTIFUL landscaping, proximity to beach, and wide overhangs of building make Trails End Court a restful, attractive place for tourists.**

**SLABS with prestressed steel reinforcement made 8-foot cantilevers possible. Finished ceiling is Flexicore. painted.**

**SINCE LIVING ROOMS are 16 feet wide and cantilevers on both sides are 8 feet wide, a 32-foot continuous slab is required in Trails End Court. Two 16-foot slabs, supported near their centers on outside walls, were used. In 12-inch space between ends of slabs in center of building, 12x10-inch reinforced beams were cast.**
sunny Florida, the wide overhang and open gallery offer practical appeal. Interiors of the rooms are handsomely decorated; are well planned, and functional.

Construction used in the courts should offer valuable ideas to builders who are planning or building homes of contemporary design, where overhangs are a prime consideration.

The Trails End Court was a profitable experiment for the architect, the builder, and for Owner William A. Weber. Weber was particularly impressed with the speed of construction achieved by using the prestressed slabs.

After the Court was completed, Weber wrote: "The Flexicore roof exceeded our expectations as to ease and speed of erection, and its finished appearance. Beauty, permanence, long-time economy, adaptability at competitive cost, give Flexicore a prominent place in modern design and construction."

The prestressed slabs were manufactured by W. R. Bonsal Co., Inc., Lilesville, North Carolina, and erected by the Florida Flexicore Co.
IF ANY BUILDER needs to be convinced of the practicality of including adequate wiring in a home, Theodore Kirkpatrick, of Los Gatos, California, should provide the clinching argument. He believes good home lighting, used as a sales feature, has potentialities that many builders are overlooking.

Last year, while Kirkpatrick was planning a model home for his 82-lot Blossom Hill Manor tract in Los Gatos, he wanted a sales feature that would draw people to the home and the tract. LeRoy H. Bennett of the Northern California Electrical Bureau suggested wiring as the feature. The idea was as sound as offering well planned kitchens, since the object of both adequate wiring and good kitchen planning is to provide greater home comforts and conveniences. Result of the Kirkpatrick-Bennett discussion was “Sunrise House,” appropriate name of the Blossom Hill Manor model home, replete with the latest ideas in wiring and lighting.

“Sunrise House” was opened to the public June 4. Within two months, more than 6,000 visitors went through it, the entire 82-lot tract was sold out, and Kirkpatrick, with assurance he knew what the people wanted, was planning another 82 houses—all to feature adequate wiring.

There was no magic formula in the Kirkpatrick approach to wiring. He merely wired the homes in such a way that the normal family needs for lighting could be fulfilled. He realized
Within 60 days, a model home with adequate wiring as a feature drew 6,000 visitors and helped sell an entire 82-lot tract

that the difference in lighting needs in a home and a factory, for example, is that the former needs light for reading, games, conversation, work, and dining; the latter, for work. The living room of Sunrise House offers general, over-all light for a conversation group provided by lights behind cornices at the top of window draperies. Recessed, concealed down lights in the ceiling, provide illumination for reading, work, or games. These are supplemented with numerous convenience outlets for floor or table lamps.

Kirkpatrick stated that the crowds were most enthusiastic about the engineered lighting, the electric kitchen, and the electric laundry. But Sunrise House had other significant features. The floor of the dining room, kitchen and breezeway is red clay tile in 12-inch squares. One entire wall of the dining room is brick with a brick fireplace and barbecue in the center, with a copper hood. A counter 6 feet wide by 2 feet deep between the kitchen and dining room serves as a breakfast bar where four to six may eat comfortably. An innovation here is the Owens-Illinois Rock Crystal glass panel which slides down when it is desirable to close the kitchen from dining room view, and up into the attic when the counter is in use. The panel is balanced by a 250-pound weight in the attic space, so it rolls up and down easily.

The kitchen has the new Hotpoint flat top or cabinet water heater, as well as the Hotpoint sink containing dishwasher, garbage disposal unit and Hotpoint steel cabinets. The counter top is Formica; there is a Pyne exhaust fan.

Blossom Hill Manor homes sold from $10,000 for two-bedroom models with 996 square feet to $14,000 for the three-bedroom homes with 1,200 or more square feet of floor space. There were seven floor plans and a great number of elevations. Some of the homes have flat roofs and in these the ceilings were beamed. Interiors are finished with Sheetrock, textured or papered, and combed plywood was frequently used for variation.
Radiant HEATING With Glass Wall Panels

Studies made on test houses and other structures equipped with electrical radiant glass panels are establishing a pattern for costs on this type of automatic heating.

The popular misconception that electrical heating for homes, offices and stores is too expensive to be economically feasible is being dispelled rapidly by the success and moderate operating costs of radiant glass heating panel installations. The Continental Radiant Glass Heating Corporation first offered its panels to the market in October 1948 and up to the present time more than 100,000 complete jobs have been installed in the United States. A number of competent and thorough studies have been made of several typical homes and small commercial structures heated with the glass panels.

The units consist of a quarter-inch thick 16x24-inch rectangular glass panel with an aluminum grid fused to the back of the glass. The glass used is 20 times stronger than ordinary glass and 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 aluminum grid raises the temperature of the 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 with a combination of convection and radiation. The heated glass panel, when warm, acts as a radiating surface. The panels have been tested and approved by FHA, the Electric Testing Laboratories and many leading electrical utility firms throughout the country. Even though the surface temperature of the glass at times approximates 300 degrees F., persons do not receive burns on contact because of the insulating qualities of the glass. Thermostats provide automatic operation to assure uniform temperatures at desired degrees.

In a house, for example, the panels are usually installed with separate controls for zones in the home, or for separate rooms. There are two basic types. One which is designed for recess into the wall and one which can be installed on the surface of a wall. The latter is used in completed structures during remodeling or modernization where

(Continued on page 208)
One Front Is Enough

By R. E. Saberson

"A vast destructive momentum is at work in the world today and sanity has yet to find a way to stop it." So we read. The sentence well describes our international situation. As a result we are deluged with floods of bad news that comes to us in the heavy headlines of the daily papers, the panicky predictions of critical columnists, and the breathless outpouring of radio commentators. We are inundated with sensationalism until we know not where to turn our heads. We seem to have forgotten that even good news can be news.

It isn't that we can't take it. Far be it from such! Actually we are so hell-bent on dishing out despair that we appear to have forgotten all about the good that lies dormant within us and without which we cannot succeed at any project we shall undertake... internationally, nationally, industrially or individually.

Imagine strange that a spirit of defeatism should grip the hearts of so many men and women who live in the richest nation on the face of the globe. Sure thing Washington is in pretty much of a mess. Small men came into power because most of us were so busy making and spending money that we didn't have the time to go to the polls and elect better men. But it should not be forgotten that great leaders invariably emerge from emergencies and there is nothing to indicate that history will not repeat itself.

**Forced Prosperity**

One trouble is, we have had too much forced-draft prosperity. It has reared its head high for the longest period in our history. Instead of something greatly to be desired it now is turning into a menacing phenomenon that is yet to take its full toll.

Prolonged, unprecedented prosperity is anything but a good condition. On the other hand, it weakens the muscles we need to keep us strong and fit for the hard tasks ahead.

Bob Zuppke, famed football mentor, once made the observation that the hardest thing any coach has to overcome is a long series of easy victories.

We have had our easy victories for so many years we find it difficult to believe we shall now have to really take off our coats and go to work. But that isn't all. Perhaps we may even have to give up temporarily the accumulation of more and more things and to invest our earnings in the perpetuation of a way of life we have enjoyed greatly and one that seems to be far more preferable to any other that has been known to mankind.

We talked much of our "problems" during the past several years when we couldn't get enough materials or manpower to build as many houses as we could have sold.

Such shortages really were not problems at all. True, they were annoying but actually they were blessings in disguise since they were the result of such a huge demand that we could sell houses at a profit as rapidly as we could build them.

**Spiritually Weak**

Now we are up against an entirely different situation and the question is how well are we equipped to meet it.

We might as well face the obvious fact that easy going prosperity has weakened our spiritual armor. We have succeeded right well from a materialistic standpoint and we have done things mechanically that no one ever dreamed could be done but we have not made comparable progress in the development of the finer emotions which will hold us together as a free people... friendliness, confidence, hopeful faith, zeal, loyalty and brotherly love. We have all but forgotten the fundamental concepts of "You treat me the way you'd like to have me treat you."

This doesn't mean that we must give up all the things we have earned by the sweat of our brows but that the time may be near at hand when we shall have to rekindle our flagging spirits. Defeatism has no place in the thoughts of any one who has enjoyed what America has given him.

Our enemies are surcharged with a fanatical zeal that surpasses any emotional upheaval in history. The only weapon that will defeat it is a stronger belief in a better cause... a solid front—not labor versus capital, or Democrats versus Republicans, or big business versus little business, or race against race, or sectarianism versus sectarianism. Survival as an end will not be achieved through the ability of any group to grab off one more round of wage increases or by any company striving to make another price advance.

It has not come home to us yet that wars cannot be won on distant battle fronts alone. What we do at home is of even greater importance. There are far too many of us who don't want to be bothered with an all-out mobilization program or a war. It would be much more pleasant for all parties concerned if we could have broken another home building record in 1951.

Or would it?

Actually we have never been able to keep right on going up indefinitely. Perhaps there had to be a leveling off. Booms turn into busts usually don't leave many pieces worth picking up.

Now we veer our course in another direction. We have (or should have) a different objective. The light construction industry has a new job. It must provide defense housing, farm buildings (food factories), military structures, essential industrial plants... and maintain existing structures so that replacement can be postponed as long as possible.

**Can Industry Do Job?**

How well is the industry equipped to do the job?

The answer, fortunately, was written in letters of gold during the post-war years when home construction records were smashed to smithereens, not by the blundering bureaucrats with taxpayers' hard earned dollars, but by hard-working, intelligent home builders who went ahead and did the job on their own know-how.

The five-year record of the home building industry ought to convince any bureaucrat that his efforts should be expended in other directions. Yet in the din of preparation for adequate protection for our way of life... our homes... our schools... and all our precious heritages, we are already beginning to hear more and more about public housing in one guise or another.

If we are to maintain our precious freedoms... if we are to generate a national spirit that will enable us to cope with the fanatical zeal of our enemies, we should not be called upon to protect our industrial way of life at home while fighting in some foreign clime to preserve it. One front is enough.
UNIT PLANNING

By the

Small Homes Council

University of Illinois

HOUSE PLANS which permit standardized construction practices and yet avoid the appearance of being “mass produced,” are now under development through a system referred to as unit planning by the University of Illinois Small Homes Council. Typical of the houses that can be developed from these units are the two at the right designed by National Plan Service, Chicago. National Plan Service has published a book including these two, and 26 other plans.

A large number of standardized house plans can be developed by integrating the four basic units—living-dining area, a work area, sleeping area, and a garage. Each unit is carefully planned within itself without regard to the rest of the house or exterior. For example, the bedrooms in the sleeping units have an acceptable relationship to the bathroom and the linen closet which are parts of the unit. The bedrooms are large enough to accommodate the usual pieces of furniture and have a pre-determined amount of storage space. Such a unit of bedrooms and bath can answer the needs of a dozen houses, no two of which need be alike. The only standardization is the rooms themselves.

Since other units are similarly designed, considerable variety in appearance and flexibility in room arrangement is offered in planning a house. This flexibility is essential because different families use a house in different ways. Moreover, flexibility in the structural design of a house and in the materials is also possible. In combining the units into a house plan, the builder has his choice of exterior materials, roof types, floor construction and materials, heating system, and extra elements, such as fireplaces, and outdoor terraces. The units are designed for one-story basementless houses; however, alternate schemes for the work area units have been developed to show basement stairways.

Each series of units provides a wide variety of room sizes. Minimum houses, as well as larger ones, can be built from the units. In order to insure the livability of the units and the houses developed from them, the sizes of the living-dining areas and the bedrooms were determined by studies which involved furniture, traffic lanes, and possible door and window locations. The work areas were designed in accordance with space and storage standards established through research at the University of Illinois.

This new method, which is the result of a project sponsored by the Lumber Dealers Research Council, was presented to the builders assembled at the sixth annual short course in residential construction, held at the University, January 17-18, 1951. House design and planning were the principal topics of discussion during the course. A poll among the builders during the fifth such course indicated the rising interest in design. The next most popular topic at the short course was land planning and subdivision development. These subjects were covered in detail by the Council staff and University members.

PORTIONS of a house, as shown in the four drawings at left, are subdivided into one room or a group of rooms and referred to as units. These units are modularly designed (planned on a four inch basic measurement) and can be grouped in many different combinations to form interesting plan patterns.
THE HOUSE at right, and plan below, show a grouping of typical units. In the living-dining space fireplace is substituted for closet.

ANOTHER example of planning with space units is shown at right with plan above and at right.
NEW PRODUCTS
Offered by Manufacturers

BUILT-IN TABLE, CHAIRS AB45121
In-wall table and bench unit is designed to accommodate numerous requests from school officials across the country. Features standard 13x8-foot tables, 25 inches high. Will seat 10 students on each side. Height of benches allow smaller children to rest their feet on the floor.

PLAN SERVICE DISPLAY AB45115
Counter display rack for home plan books published by Home Building Plan Service is designed especially for lumber dealers. Occupying a minimum amount of counter space, the attractive rack will hold 12 or more books. Display card attached to it briefly lists the publications in which Home Building Plan Service advertising is carried. Home Building Plan Service, Dept. AB, 2454 NE Sandy Blvd., Portland, Ore.

POWER WHEELBARROW AB45113
"Pow-R-Barrow" self-powered wheelbarrow will pull a full load up a 40 per cent grade. Compression acts as a brake on the downgrade. Speed on the level is a comfortable walking pace. Main advantage of the new machine is to eliminate most of the effort, rather than to materially speed up the operation. Air-cooled engine is mounted beneath bed and drives by friction on the tire tread, with simple controls all on the right handle.
S and S Vending Machine Co., Dept. AB, San Jose, Calif.

PORTABLE SCAFFOLDING AB45110
Portable scaffolding, built up from lengths of aluminum or steel tubing and quick-acting clamps, may be assembled with ordinary wrench. Unskilled workman can set them up for all kinds of construction and maintenance work. Basic parts are light but strong, easy to handle, easy to assemble and easily adaptable to any working conditions. In erecting a tube-and-clamp scaffold, the vertical tubes are set up and linked together at intervals with horizontal members. The horizontals are arranged both parallel and at right angles to the working surface, forming a box-like, rigid structure.
Safway Steel Products, Inc., Dept. AB, 6234 W. State St., Milwaukee 13, Wis.

FURNACE-SPACE HEATERS AB45120
OHSS gas-fired furnace requires less than 3 square feet of floor space, and serves as a vented wall heater as well as a space heater and utility furnace. Used as a furnace, heat may be delivered in any direction through ducts connected to front, sides, back, or top of cabinet. Installed as a space heater, the low resistance grilles furnish warm air circulation with minimum resistance. Compactness is due to the inclusion of efficient wedge tube heat exchanger. Built-in plenum chamber and draft diverter. Fully automatic controls. Approved by AGA as a vented wall heater and forced air furnace for use with natural, mixed, manufactured, LP, and LP-air gases. Ingersoll Products Div., Dept. AB, Borg-Warner Corp., 760 E. Vine St., Kalamazoo, Mich.

BATHROOM VENTILATOR AB45114
Equipped with a time-delay switch, the Trade-Wind Clipper bathroom ventilator will completely exhaust all odors, dampness and steam from shower or bath before automatically shutting itself off. The switch can be set for any period up to 30 minutes. Unit is installed in ceiling and vented to the outside. Four-inch blower wheel, driven by a 1.75 h.p. motor, delivers 100 CFM. Motor is located entirely outside the air stream, minimizing service problems. Trade-Wind Motorfans, Inc., Dept. AB, 5725 S. Main St., Los Angeles 37, Calif.

PACKAGED AIR CONDITIONER AB45108
New 11-ton packaged air conditioner is equipped with sealed radial compressor which operates at 3,500 r.p.m. Unit has cooling capacity of 132,000 B.T.U.'s. Compressor, directly connected to compressor motor, is cushioned mounted for quiet operation and sealed in a bath of oil for lifetime performance. Return air grille is equipped with cleanable type filters. "Maxifin" cooling coil is used to produce greater heat transfer per pound of weight, and combination condenser and receiver is equipped with coil-type spiral finned water passages. Airtemp Div., Chrysler Corp., Dayton, Ohio.

CARRY-IN FIREPLACE AB45104
The pre-built "Hearthplace," a carry-in fireplace, comes complete with chimney and can be installed in one day. Fire chamber and dome are steel, designed to be installed with one of the many Underwriters' approved prefabricated chimneys. Insulation is listed as standard by Underwriters' Laboratories to take up to 1,400 degrees F. For use in the living room, den, recreation room, they are available in either wall or corner models. Variety of finishes. Width in front, 40 inches; in back, 26 inches. LaSo Products Co., Dept. AB, Elkhart, Ind.

RESIDENTIAL LOCKSET AB45109
A new, light duty model of the Sargent Integralock, designed for residential entrances, is a mortise latchset with sealed, tamperproof case, offering the security of a deadbolt and a projecting shearpin in the knob. It requires an extremely small mortise. Design of knob and trim harmonize with modern decor. Features popular key-in-knob action, and is offered with either round or square escutcheon plates in four finishes. Excellent for apartments and housing developments as well as individual residences. Sargent and Company, Dept. AB, New Haven, Conn.

New products continued on page 192

AMERICAN BUILDER
ALL YOU COULD ASK FOR

in an overhead type door

Whatever you want in an overhead type door—for commercial, industrial or residential application—Ro-Way has it, and more!

BEAUTY—the eye-catching good looks of clean, simple lines that blend so well with any style architecture.

MATERIALS—selected west coast lumber, and heavy gauge steel hardware—all fabricated in Rowe's own plant. Hardware Parkerized and painted after fabrication.

CONSTRUCTION—none better! Mortise and tenon joints glued and steel doweled. Muntins, rails and stiles precision-squared. Sections rabbeted to assure weather-tight joints. Millwork both drum sanded and hand sanded.


MODELS—standard and special sizes and styles fit practically any need.

All you could ask for—and more, besides! Yours—with Ro-Way Overhead Type Doors. Specify Ro-Way and get what you want.

there's a Ro-Way for every Doorway!

Nationwide sales and installation service. See your classified telephone directory for names and addresses of Ro-Way distributors.

ROWE MANUFACTURING COMPANY • 782 Holton St., Galesburg, Illinois

APRIL 1951
New products continued on page 204

NEW PRODUCTS

(Continued from page 190)

SWEDISH HARDWARE AB45102

New 1961 Roper gas ranges are completely re-styled, and appear longer and lower. Features include new deluxe door handles of chrome, “silent-glide” drawers and broilers, Roper Allgard “center-simmer” top burners with keep-warm heat, newly designed oven racks for safe convenient usage and easier cleaning, and the addition of enameled storage drawers. “Signaal” indicates when baking oven has reached desired temperature. Sizes include 21, 36, 38, 40, and 58½ inches. Designed for all gases, including LP. Geo. D. Roper Corp., Dept. AB, Rockford, Ill.

GAS RANGES AB45107

Lightweight Kohler electric plants, for sale source of current or for portable and stand-by use, use gasoline for fuel and are powered by one-cylinder air-cooled engines. Light enough for easy carrying by hand or by light conveyance. Available with automatic or manual starting. Kohler Co., Dept. AB, Electric Plant Div., Kohler, Wis.

UNBREAKABLE MIRROR AB45103

Flexmir’s unbreakable non-glass mirror is available in silver, gold, pastels and many other colors. It can be cut into circles, squares, arcs and beveled forms. Will not steam up or cloud up in frost, and is shock resistant and light weight. High mair resistance. Flexmir, Inc., Dept. AB, 20-28 Broome St., Newark 3, N. J.

PORTABLE HEATING PLANT AB45119

Carpenters, plumbers, painters, or paperhangers will find the twin heater-salamanders and a tank of bottled gas a quick answer to their need. Equipment with portable units includes a gas tank, steel standard to hold burners, burners and all necessary connections and valves. Heads which help to hold the heat are also available. The Star Welding and Manufacturing Co., Dept. Y, 1056 E. 134th St., Cleveland 16, Ohio.

GAS FURNACE AB45114

Model 66 is a Superflex “Homogen-Air” gas furnace which warms the shoulder region as well as the ankle level. It has 3-stage fire and 2-speed blower and the blower is located at bannet where it is synchronized with the 3-stage fire to assure uniform distribution of warm air at all times. With an input of 150,000 B.T.U.’s per hour, it is ideal for average size homes or larger. Finished in Silver Spray baked enamel. For use with natural or manufactured gases. Perfection Stove Co., Dept. AB, 7609 Platt Ave., Cleveland 4, Ohio.

JALOUSIES AB45105

Easily installed Jalousies have slatted louvres which help air circulation between rooms. Available in black or china red, plain or trimmed in gold, with varied floral designs. Also available unpainted or with gray prime coat, enabling them to be matched with previous color schemes or wallpaper. Inglenook Craftsmen, Dept. 1, Box 26, Station O, Cincinnati 8, Ohio.

PAINT BRUSH BATH AB45106

Old paint brushes can be salvaged with Cabot’s brush cleaner. It restores hardened brushes for use and maintains freshness and vitality in new brushes. Non-caustic liquid solvent is ready to use out of container. Will not evaporate and can be used over and over again. Non-inflammable. For natural or nylon bristle brushes. Samuel Cabot, Inc., 1371 Oliver Bldg., Dept. AB, Boston 9, Mass.

SHINGLE DISPLAY BOARD AB45112

Smart, new shingle display board is being used by Philip Carey Mfg. Co., Dept. AB, Cincinnati 15, Ohio, to better display its recently introduced line of modern-colored asphalt shingles. Copy is lettered in forest green on a soft lemon-yellow background. Board is equipped with cardboard easel so that it may be used on counters, in windows or on walls. A board is available for all of the various colors in Carey’s asphalt shingle line.

INSERT NUMBERS AND MAIL COUPON FOR INFORMATION

American Builder, 79 W. Monroe Street, Chicago 3, Illinois

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When you address inquiries direct to manufacturers concerning a new product described here, please mention that you saw it described in American Builder
Sell the Superior Features of
Roddiscraft Flush Doors

Roddiscraft Solid Core Flush Doors
For office buildings, apartment houses, hospitals, schools, hotels, institutions

The Roddiscraft Solid-Core Assembly Is —

✓ Fire Resistant . . . Independent laboratories have proved Roddiscraft Doors easily exceed the 40-minute fire test.

✓ Sound Resistant . . . Roddiscraft Solid Core Doors develop an average sound transmission loss of only 30.9 decibels — a little less than specially constructed sound resistant doors.

✓ Resistant to Abuse . . . Roddiscraft construction welds core, crossbandings and face veneers into a single unit with the inherent strength of true plywood construction.

✓ Waterproof . . . Recommended for exterior as well as interior use. Phenolic resin glue provides two completely waterproof shields over the entire area of the door on each side of the core.

Roddiscraft Solid Core Doors Have Standard Thickness Face Veneers*. . . Better Because —

1. They resist checking.
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3. They take abuse better.

Roddiscraft construction utilizes 1/10" thick hardwood crossbandings . . . sure protection against core pattern showing through face veneers after finishing.

*R1/20" Thick for Most Woods.

APRIL 1951
NOW ... Sand Floors with MORE SPEED... MORE PROFIT!

Double your production with AMERICAN SUPER 8

On job after job—contractors report this new American Super 8 cuts twice as fast as a standard 8” machine! This greatly reduces time and costs...and increases the contractor’s profit!

The Super 8 is powered by a specially designed 2 H.P. motor...drum driven by vari-speed transmission...drum speed range from 1600 to 2800 r.p.m. assures greatest efficiency under varying conditions...drum speeds easily selected by "dialing" Drum Pulley...great range of drum pressures selected by variable control—52 lb. to 103 lb.—to meet all conditions in floors. Operates efficiently even with low voltage! Has double volume dust pick-up...low center of gravity...plus many more all-new Super Features! Send coupon for details.

SINCE 1903

AMERICAN FLOOR MACHINES

No. D-77 Garden Boxes

THREE garden box arrangements are shown on the opposite page. One is in connection with the front wall of a house. The other two are made a part of the fence and garden composition. All of these ideas are applicable in the development of the average home builder's landscape plans.

An interesting treatment of an otherwise plain wall surface is provided in the multi-level flower beds which are made an integral part of the house design. This is indicated at top of detail plate. Framing for boxes is of vertical and horizontal 2x4's, with the portion of vertical 2x4's that is imbedded in ground treated with creosote to prevent premature rot. Each level is provided with a separate metal-lined box.

One background of good landscape planning is an attractive fence around which feature motifs can be placed. The shadow boxes shown in the center of the detail plate provide a protected space for potted plants to lend color to the garden during the off seasons. The wood frame of the fence is covered with asbestos cement board. While the double-framing members of the fence in back of the shadow boxes present an effective pattern, they also serve as supports for boxes that are set at different distances from the corrugated asbestos cement board. Plywood for the back of boxes should be of the "weatherproof" variety. Additional interest may be given boxes by painting the frames in bright colors.

The feature at the bottom of the detail plate is primarily decorative. In the example shown the motif is an ancient piece of driftwood which rises from the corner of a raised bed filled with beach stones and shells. The fence in back is constructed differently on each side. On one side half inch plywood is secured to vertical framing; on the other wood slat boards are laid horizontally; 2x6 vertical and horizontal members placed in front of the raised bed form a seat. When garden features are painted it is suggested that colors used should be of the same shade as the sidewalks or trim of the house.

Let your suggestion pay you five dollars ($5.00) in cash. This sum is paid by the American Builder for each short cut or idea that is accepted for publication. Send all material to Architectural Editor, AMERICAN BUILDER, 79 W. Monroe St., Chicago 3, Ill.
NO. D-77 GARDEN BOXES

Elevation

Plan

Sec.

Elevation

Plan

Sections
Fiat Precast Receptors

(Regular black & white or special colored terrazzo)

...for Built-up Tile Showers

Save money and speed up the job by eliminating the difficult lead pan and tile floor

Details of suggested construction in building up a tile shower on a Fiat precast receptor. Metal lath and foundation plaster are brought down inside the rust-proofed metal flange. The tile setter starts directly with the wall construction without the delay involved in laying a tile floor and waiting for it to harden to a working surface.

Fiat precast terrazzo receptors are made of black and white marble chips and white cement, ground and polished. A rustproof galvanized reinforcing flange and a 2" brass drain fitting are cast integral with the receptor to form a strong, leakproof, slip-proof, non-absorbent floor for the shower.

The use of a precast receptor eliminates the easily damaged lead pan and the labor consuming job of laying a tile floor. It enables the contractor to complete the shower faster and produce a better job at a lower cost.

Fiat precast receptors reduce the danger of leaky cracks developing in the tile shower walls by providing a solid, rigid foundation that is not affected by shrinkage of supporting wood framing or settling of the building.

The attractive appearance of terrazzo makes a beautiful floor that is in perfect harmony with tile walls. Various colored terrazzo is available on special order, to blend with tile colors.

Your plumbing contractor can get quick delivery of a Fiat receptor as many plumbing wholesalers have Fiat receptors in stock. Standard square type sizes—32" x 32", 36" x 36", 40" x 40". Corner type—36" x 36", 40" x 40".

Section through pre-cast receptor showing brass drain and adaptation to 2" waste pipe and "P" trap. (Trap and pipe by others).

FIAT METAL MANUFACTURING COMPANY

Three complete plants
Long Island City 1, N.Y. Los Angeles 33, Calif.
9301 Belmont Ave., Chicago area, Franklin Park, Ill.
In Canada: The Porcelain and Metal Products, Ltd. Orillia, Ontario

No. G-18, Show Window Details

This window was designed to give the effect of a showcase in light scale yet permitting large department store type of display setups. It is the second of a series of details on show window construction.

To accomplish the sense of lightness this window was supported on a cantilevered steel framework and bronze legs, with a very light bronze frame set on this platform. The projecting display windows are supported on cantilevered construction consisting of double steel channels over steel angle struts, both of which have been spaced so that the precast concrete platforms fit between struts. This concrete platform is covered with a removable plywood floor to facilitate window dressing. The platform also has a 3-5/8-inch plywood show window back on wood furring strips.

A light trough also was cantilevered from the wall behind and covered with a fascia of bronze. This light trough avoids the usual valance treatment of a window whose soffit is below the ceiling, affording a floating source of light. It is decorative and at the same time it is functional.

The wall treatment behind the show window consists of a veneer of long narrow tiles glazed in antique gold on the pier and soft green penny rounds set in a backing of dark green cement plaster.

The lighting for the show window consists of fluorescents and recessed hi-hats in the light trough previously described.

The vestibule floor of the store front is terrazzo in ebony black marble chips with brass divider strips. The vestibule ceiling is painted plaster of a Morocco gray color which provides a soft background for the large white domes of indirect light and recessed downlights.

How to Make a Cement Float

The two-handled cement float shown in sketch above is very handy for working on small areas of concrete, such as porches, walks, etc. It eliminates the use of knee-boards.—J. G. Caldwell, San Mateo, Calif.
Designed for TODAY'S BUILDING NEEDS AND METHODS

NINE MODELS — Counterflows, Hi-Boys, Lo-Boys. Pressure oil, vaporizing oil, or gas-fired, using any common oil or gas, rated at 64,000 BTU and up at bonnet.

BEAUTIFUL — Gleaming white enamel finish, smart styling.

COMPACT — 22" x 22". U.L. Listed for reduced clearances. Top flue outlet for added compactness, neatness.

APPROVED — U.L. Listed for oil and gas, A.G.A. Approved for gas. Convertible at any time from oil to gas without loss in capacity.

PACKAGED — Fully assembled and fire-tested at factory. Fully wired including controls. All wiring and operating parts fully enclosed.

Write today for complete details and specifications.

CONCO ENGINEERING WORKS • DIVISION OF H. D. CONKEY & COMPANY, MENDEOTA, ILLINOIS

COUNTERFLOW

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<tr>
<td>Oil burner</td>
<td>5,000</td>
<td>5,000</td>
<td>NO. 2</td>
</tr>
<tr>
<td>Draft in breeching, water column</td>
<td>.320</td>
<td>.322</td>
<td></td>
</tr>
<tr>
<td>Output rating at burner, BTU/hr.</td>
<td>64,000</td>
<td>64,000</td>
<td></td>
</tr>
<tr>
<td>BLOWER</td>
<td>640</td>
<td>640</td>
<td></td>
</tr>
<tr>
<td>BLOWER C.F.M. @ 30&quot; A.P.</td>
<td>640</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CABINET</td>
<td>22&quot; x 22&quot; x 22&quot;</td>
<td>22&quot; x 22&quot; x 22&quot;</td>
<td></td>
</tr>
<tr>
<td>HEAT EXCHANGER</td>
<td>.016</td>
<td>.025</td>
<td></td>
</tr>
<tr>
<td>WEIGHTS</td>
<td>305 lbs.</td>
<td>300 lbs.</td>
<td>400</td>
</tr>
</tbody>
</table>

HI-BOY

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>PRESSURE OIL</th>
<th>VAPORIZING OIL</th>
<th>GAS-FIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BURNERS</td>
<td>70,000</td>
<td>70,000</td>
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<tr>
<td>BLOWER</td>
<td>750</td>
<td>750</td>
<td></td>
</tr>
<tr>
<td>BLOWER C.F.M. @ 30&quot; A.P.</td>
<td>750</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CABINET</td>
<td>22&quot; x 22&quot; x 22&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECHANICAL CLEAN-OUT CLEARANCE</td>
<td>5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEIGHTS</td>
<td>410 lbs.</td>
<td>400 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Specifications
We are so pleased with the results of our first National "Thrift House" open house at Glen Burnie, Maryland, that we want to give you the details.

Our three-bedroom "Thrift House" was open for inspection from 1:00 to 8:00 P.M., Saturday and Sunday, February 3rd and 4th, during these hours, more than 3,800 persons visited the house and thirty-eight sales were made, representing total business of over $320,000.

We have been in the building and development field for many years and are accustomed to crowds and sales, but we were genuinely astounded by the interest shown in National Homes. Prior to the showing, we thought that if 1,200 people visited the house and nine or ten sales were made, our venture would be a success.

Naturally, we are extremely gratified with the results. So much so, in fact, that we are going ahead immediately with plans to develop this entire tract. This year we hope to erect more than 450 National Homes.

Yours very truly,

W. S. Banks
President
Worthington’s Answer
To Your Toughest Pumping Problems...

The Simplest,
Sturdiest,
Most Efficient
Contractor’s Pump
Ever Built!

Impeller A and shaft seal B
— the only moving parts

Only two moving parts in a Worthington Blue Brute Self-Priming Centrifugal! And no ports, jets or valves to clog up. Instead, positive self-priming results from expert application of basic hydraulic principles — a Worthington specialty for over 100 years.

Materials are right — in the right places. Impeller and renewable wear plates are of special abrasive-resisting alloy . . . the dual shaft seal is fully enclosed and self-adjusting . . . the steel alloy casing defies rust, erosion and hard knocks . . . the air-cooled engine is easy-starting. So, with all trouble-making gadgets left out, this Blue Brute Portable has absolutely everything you want for fast, dependable pickup, plenty of reserve power — and next to no maintenance!

See your nearby Worthington Distributor for the A. G. C.-rated sizes, base-mounted or with steel or pneumartic-tired wheels.

WORTHINGTON

WORTHINGTON PUMP AND MACHINERY CORPORATION
Construction Equipment Sales Division
Dunellen, New Jersey
Distributors In All Principal Cities
IF IT'S A CONSTRUCTION JOB, IT'S A BLUE BRUTE JOB

Catalogs and
HOW-TO-DO-IT INFORMATION

903—ELECTRIC PALLET TRUCK—A 16-page booklet in color issued by the Towmotor Corp., 1226 E. 152 St., Cleveland 10, Ohio, illustrates and describes the operation, design, construction and other details of the Towmotor Model “W” Electric Pallet Truck, a combination of electrical and hydraulic mechanisms.

904—FURNACES AND BURNERS—Folder from Reliance Products Corp., Portland, Ore., gives data and drawings on outstanding features of Reliance automatic oil-fired warm air furnaces and burners for small homes.

905—REMOTE CONTROL GARAGE DOOR OPENER—Operation of Crane “300” automatic garage door opener with “Magic Circle” electronic device is illustrated in booklet issued by the H. W. Crane Co., 1443 W. Lake St., Chicago 7, III.

906—INSULATING MATERIAL—The Special Products Branch, Weyerhaeuser Timber Co., Longview, Wash., has published a new illustrated booklet on the properties and application of its new organic insulating material, Silvawool. All phases of the material’s use are shown.

907—GAS FURNACES—Features of Evenflo gas furnaces, along with specifications and installation methods, are shown in new booklet circulated by the Economy Gas Furnace Manufacturing Co., 10 S. La Salle St., Chicago 3, III.

908—CRAWLER TRACTORS—Two attractive 16-page catalogs on the New A-C crawler tractor have been issued by the Allis-Chalmers Tractor Division, Milwaukee 1, Wis. One describes the Model HD-9, weighing 18,500 pounds and developing 70.0 drawbar HP; the other covers the Model HD-15, which weighs 27,500 pounds and develops 102.0 HP at the drawbar.

909—HARDWARE—Catalog No. 12, recently published by the Sterling Hardware Manufacturing Co., 2345 W. Nelson St., Chicago 18, Ill., gives data, specifications and installation details of Sterling hardware for residential sliding doors, casement windows, storm sash and transoms.

910—PORTABLE TOOLS—Line of electric and pneumatic tools, including drills, saws, grinders, polishers, screw shooters and hammers, is presented by Milwaukee Electric Tool Corp., Milwaukee 8, Wis., in an attractive new Catalog No. G875.

911—POCKET HEAT CONTROL CALCULATOR—A new slide-rule guide to help heating contractors and service men to determine the proper thermostat control for radiant panel heating has been introduced by the Minneapolis-Honeywell Regulator Co., Minneapolis 8, Minn.

912—PLUMBING FIXTURES—Catalog “K” of the Milwaukee Flush Valve Co., 301 E. Reservoir Ave., Milwaukee, Wis., contains wide variety of the firm’s tub and shower, lavatory and other fixtures and accessories, including adjustable multi-purpose shower and tub fixtures.

913—PLASTIC WALL TILE—Hachmeister - Inc., Pittsburgh, Pa., has issued two brochures, one describing and illustrating the characteristics of Hako Coronet plastic wall tile and the other giving detailed instructions on application of the tile.

(Continued on page 202)
NOW! More proof of Fire-Chex superiority

FROM THE HOUSE OF CAREY —

Performance like this is another powerful reason why Carey Fire-Chex asbestos-plastic shingles should be your choice for roofing!

Here are the easy-to-see reasons! Remember—Fire-Chex is the only roofing that provides all these important advantages—

1. Amazing Wind-and-Weather Protection
   Fire-Chex are husky heavyweights . . . a whopping 325 lbs. per sq. They lie flat, stay put, even through hurricane winds.

2. Hail Won't Harm
   Fire-Chex Asbestos-Plastic Coating is so heavy that hail bounces off harmlessly.

3. Lasts Far, Far Longer
   Accelerated weather tests prove conclusively that Fire-Chex have a much longer life than ordinary shingles.

4. Highest Fire-Safety Rating
   Only Fire-Chex are rated Class A* by Underwriters' Laboratories, Inc. This is the highest Fire-Protective rating any roofing material can earn.

5. Exclusive New Solid Colors and Shadow Blends
   The crowning glory for any roof... Fire-Chex come in rich, solid colors and in exclusive shadow-blends to make roof designs which are copyrighted as "works of art."

*Without asbestos underlayment.

“In a recent hurricane that lashed this area of southeastern New York state, damage to roofs, both old and new, was heavy. However, on roofs where Carey Fire-Chex shingles were installed, we could not find even one shingle that had been loosened.”

Signed:

T. Niblo Creed

“Without asbestos underlayment.

Specify Carey Fire-Chex for lasting protection and beauty! For further information, see your Carey Dealer—or write for literature.

The Philip Carey Mfg. Co., Lockland, Cincinnati 15, Ohio
In Canada: The Philip Carey Co., Ltd., Montreal 25, P. Q.

FROM THE HOUSE OF CAREY — Bathroom Cabinets and Accessories • Ceremo Siding • Tri-Tone Asbestos Shingles
Fire-Chex Asbestos-Plastic Shingles • Rock Wool Insulation • Other Famous Products for Home, Farm and Industry.
If you haven't sold or used some of the two billion Nichols Rust-Proof Aluminum Nails that were made last year, you are losing a nice extra profit bonus and the opportunity of building more and better satisfied customers. Aluminum Nails are economical in many ways. For only an additional cost from $1.80 to $3.00 more than common nails, the elimination of countersinking and puttying (approved by the FHA) will give you an extra bonus from $25 to $40 per house. In addition, a longer paint-life is assured since aluminum nails will never cause unsightly rust streaks or stains on the surfaces to which they are applied. Your customers will like this protection against the frequent repainting of the exterior of their homes.

NOW CONVENIENTLY PACKAGED

"Never-Stain" Aluminum Nails in a wide range of types and sizes are now available in "packaged for the job" containers and in 50 lb. cartons. They are easy to stock — easy to handle. Save selling and inventory time. Aluminum Nails are etched for greater holding power. They are strong and easy to drive.

PACKAGED IN 12 DIFFERENT TYPES IN ALL POPULAR SIZES

Sinker and Casing Head Wood Siding Nails, Cedar Shake and Shingle Nails, Ashen and Insulated Siding Nails, Gypsum Lab Nails and Standard Shingling Nails. Also Roofing Nails with plain shank and screw grip, with or without neoprene washers. Write for complete descriptive circular of types and sizes.

NICHOLS WIRE & ALUMINUM CO.
GENERAL OFFICES - DAVENPORT, IOWA
Branches: Mason City, Ia • Battle Creek, Mich • North Scituate, Mass • Oxnard, Calif • Cincinnati, Ohio • Seattle, Wash

914—ACOUSTICAL TILE—An 8-page design data sheet describing Fiberglas textured and perforated acoustical tile has been published by the Owens-Corning Fiberglas Corp., Toledo, Ohio. It includes application methods by adhesive, mechanical suspension or clipping on wood furring strips.

915—ROOF TRUSSES—A number of different installations of American wood roof trusses are shown in a brochure issued by the American Roof Truss Co., 1030 E. 87th St., Chicago, Ill.

916—OVERHEAD-FRONT END SHOVEL—The Lodover, a new 1-yard combination overhead and front end shovel for International Harvester tractors is described in an 8-page illustrated catalog published by the Service Supply Corp., Philadelphia 32, Pa.

917—CARRIER INDEX—Carrier indexes for use by architects and specification writers in selecting and specifying the proper carriers and fittings to use with wall type plumbing fixtures have been published in booklet form by J. A. Zurn Manufacturing Co., Erie, Pa.

918—MOISTURE METER—The Tag Midget Moisture Meter, designed for quick determination of moisture content of wood, lumber, plaster and wood products, is described in a six-page booklet issued by the Tagliabue Instruments Division, Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

919—ALUMINUM PRODUCTION—A new booklet describing the production of aluminum pig by the Hall electrolytic reduction process at its Jones Mill, Ark, plant has been published by the Reynolds Metals Co., 2000 S. Ninth St., Louisville 1, Ky.

920—BALANCED WINDOW UNITS—is the title of an attractive 8-page booklet published by the Caldwell Manufacturing Co., Rochester 14, N. Y. The booklet describes the counterbalancing of double-hung windows with particular emphasis on pre-assembled unit windows.

SERVICE COUPON—CLIP and MAIL to CHICAGO

Readers Service Department (March, 1951)
American Builder
79 W. Monroe St., Chicago 3, Ill.

Please send me additional information on the following product items, or catalogs, listed in this department:

Numbers ____________________________
Name ______________________________
Street ______________________________
City ____________________________ State

OCCUPATION* ________________________

*Please note that occupation must be stated if full service is to be given.
SERVING THE HARDWARE TRADE FOR OVER 70 YEARS

Shown here are just a few of the profit-makers in the complete LOCKWOOD line of Builders' Hardware—designed to have the style and dependable security that people want. Priced to build sales for stock or contract requirements. Write for full information about these—and other—fast moving items in the LOCKWOOD LINE.

- Tubular Inside Set for Bath or Bedroom
  BERKELEY DESIGN

- Inside Set with Bit Key
  CHANBY DESIGN

- Cylinder Front Door Set
  MADISON DESIGN

- Reversible Hand
- Cylinder Screen and Storm door LOCK

- BARCLAY DESIGN
- SASH FASTENER
- WALL-TYPE DOOR STOP
- BAR SASH LIFT

- Cylinder Front Door Set
- BALL BEARING Door Closer

- SCREEN DOOR CLOSER
- NIGHT LATCH

Subject to any Government restrictions or limitations which may be imposed.

Lockwood
FITCHBURG HARDWARE MANUFACTURING COMPANY

MASSACHUSETTS

APRIL 1951
This 36-page book contains 50 beautiful interiors and fireplace designs. These photographs were selected from our National Photo Prize Contest. The book contains elevations, sections and plans for installation of three HEATFORM Models: A, C and S. It also shows proper location of fireplace for best heating results; how to heat adjacent rooms on first and second floor, and other valuable fireplace information you will want.

HEATFORM

- Model "A" is the standard HEATFORM used in homes throughout America for the past 30 years. Complete information on Model "A" and Superior Form Dampers is contained in:
  - 1950—Sweet's Architectural File, Section 26g-7
  - 1950—Sweet's Builder's File, Section 4-c-26
  - 1951—Sweet's Architectural File, Section 29-k-su
  - 1951—Sweet's Builder's File, Section 4-d-su
  - 1950-51—Western States A-E-C Catalog File

Model C and S are completely described in Book of HEATFORM Fireplace Designs.

SUPERIOR FORM DAMPER

- the Architects’ Friend — always building good fireplaces without your personal supervision. It saves in labor time — no forms to build, no bricks to cut, no throat to plaster. Cracking of masonry is eliminated by use of rock wool and detached lintel bar. It is constructed of heavy steel for lifetime service.

SUPERIOR FIREPLACE CO.

Pioneer manufacturers of heat circulating fireplaces and Form Dampers. Nationally advertised to millions of potential users. Sold through leading building supply dealers everywhere.

NEW PRODUCTS

(Continued from page 192)

ACOUSTICAL TILE CEMENT A845118

“Sur-Stik,” new resin-based cement for applying acoustical tile, fibre board, wallboard, gypsum and similar composition sheeting, remains pliable to give and take with expansion and contraction of bonded materials. The cement is said to provide superior adhesive qualities for use on wood, metal, glass, cement and plaster. Unaffected by moisture absorption encountered with mast tile and wallboards. Easy to use direct from container. The J. W. McGuire & Co., 3400 Theurer Court, Cleveland 9, Ohio.

LINOLEUM UNDERLAYMENT A845122

One-quarter inch Temboard in short sizes is designed for underlayment to receive linoleum, asphalt tile, and other resilient floor coverings. It is available in 4x3-foot and 4-foot sizes with the back planed to eliminate screen marks and to insure uniform thickness. The short sizes prevent buckling from expansion and contraction with changes in relative humidity. Temboard is easily nailed and readily conforms to irregularities in the subflooring. Armstrong Cork Co., Dept. AB, 964 Concord St., Lancaster, Pa.

WATER SOFTENER A845101

The “Softmaster” water softener regenerates by push of a button which may be located anywhere in the house. Automatic by pass permits water to be drawn at any outlet during regeneration for any emergency. Soft water can ever enter the house lines. Salt is added to brine tank or three times a year. Water level in brine tank is accurately controlled by two feeler electrodes which prevent salt from creeping up sides of tank. Plugs into any 110-volt outlet. Selection of three sizes and two Zeolites. The F. E. Myers & Bros. Co., Dept. AB, Ashland, Ohio.

Portland Home Show May 12

Dates of the Portland, Ore., 1951 Home Show are May 12-20, the Portland Home Builders Association, sponsors, have announced. The place is the 11-acre Pacific International Exposition building.
The adjustment bar on the bottom of every TENSION-tite screen also serves as a GUIDE BAR, or template, showing precisely where to place the five screws for easy, perfect fit.

**COST LESS THAN ORDINARY SCREENS**

TENSION-tite screens offer attractive savings on both original cost and installation.

**INSTALLED WITH FIVE SCREWS**

Driving five screws...six on wide screens...is all the work required. Installation is done from inside.

**APPROVED BY LOAN AGENCIES**

Regional offices of F.H.A. and the V.A. have approved TENSION-tite screens.

**RUST-PROOF NON-STAINING**

TENSION-tite aluminum screens are normally all aluminum...nothing to rust or stain.

**NO PAINTING NO UPKEEP**

TENSION-tite screens are delivered ready to install...no painting is necessary.

**ATTRACTIVE APPEARANCE**

With no bulky stiles...no center rail...TENSION-tite screens present an attractive, modern appearance.

**Sizes for All D. H. Wood Windows**

TENSION-tite aluminum screens are made to fit all standard modular, eastern fractional, and Pacific Coast modular double hung wood sash sizes. Special sizes are also available.

**SEND FOR THIS BOOKLET**

Shows details about the construction and features of TENSION-tite screens, and lists their sixteen points of superiority.

---

**RUDIGER-LANG CO.**

FACTORIES IN BERKELEY, CALIF., AND TOCCOA, GEORGIA

EIGHTH AND CARLETON STS. • BERKELEY 10, CALIF.

P. O. BOX 408, TOCCOA, GA.

7966 MELROSE AVE., LOS ANGELES, CALIF.
More and More Thousands of Installations
All Over the Country

General Electric's amazing new heat distribution system that continues to smash sales records.

MASSACHUSETTS  G-E Air-Wall Heating makes this home, and eighty-eight others in the project in Weymouth, Mass., warm and comfortable even on the coldest days.

CALIFORNIA Three thousand five hundred homes equipped with G-E Air-Wall Heating at Housing Project in San Francisco, Calif.

MICHIGAN Thirtieth anniversary model home in project of eight hundred homes constructed by Miller Homes, Inc., in Detroit, Mich., equipped with G-E Air-Wall Heating.

NEW JERSEY This is a typical G-E Air-Wall installation showing small duct size and return air fittings.

PENNSYLVANIA G-E Air-Wall installation in Williamsport, Pa., showing G-E Oil-Fired Unit and extended plenum.

COLORADO This interesting G-E Air-Wall Heating installation in Denver is made with ducts in concrete slab of basementless house.

 Builders who use G-E Air-Wall Heating have important advantages over other builders. First, they can use G-E Warm Air Furnaces, for gas or oil, that are famous for economy and reliability. Second, they have a heating system that gives two types of heat in one—radiant and forced warm air. Third, since smaller ducts and standard fittings are used, costs can be figured more quickly and exactly. Fourth, they can use the power of the famous General Electric name to help sell their houses.

A—Small Diameter Ducts
B—G-E Oil or Gas Warm Air Furnace
C—Return Air Ducts

New advanced automatic G-E Air-Wall Register provides all the advantages of the standard G-E Air-Wall Register plus automatic individual room temperature control.
You get benefits of 2 types of heat!
The amazing new G-E Air-Wall Register, a product of G-E research and engineering, is generally placed just above the baseboard. It directs air up and out in front of the wall, warming the cold surface so it radiates heat. You get better forced warm air heat, too. The air pattern cuts down natural cold drafts which normally creep down cold walls.

Freedom of furniture placement!
No interference from radiators or heat supply grilles. You can sit directly in front of the G-E Air-Wall Register and feel no draft... no uncomfortable hot blasts. In the morning, when the system goes on automatically, you feel no cold air that has settled overnight in the ducts.

Balanced heat in all rooms!
You can accurately adjust heat flow to each room in the home by simple adjustment of the damper on each duct, with minimum disturbance to the "balance" of heat to other rooms.

Uniform floor-to-ceiling temperatures!
The wall of warmed air diffuses quickly to give even temperatures throughout the room. Warmer floors, too!

Quiet!
Small Air-Wall ducts dampen furnace noise more fully than large ducts. Register design also helps to reduce noise.

Architects—builders—contractors!
G-E Air-Wall Heating is engineered for low installation cost; its design is guided by the same famous standards long built into G-E furnaces. It is easier and less expensive to estimate a job when you plan to use G-E Air-Wall—because of the standard ducts, elbows, and register boxes. This system can be installed in houses with or without basements.

Where is G-E Air-Wall available
It is available RIGHT NOW through your local General Electric Heating Distributor. He is listed in your classified telephone directory.

FREE BOOKLETS
- Free information on G-E Air-Wall Heating
- Free booklet on G-E Oil Furnace
- G-E Gas Furnace
- G-E Oil Boiler
- G-E Gas Boiler

General Electric Gas-Fired Warm Air Furnaces...come in five compact sizes. Home planners will enjoy clean, quiet operation, their quick heat, their high efficiency, their filtering which cuts down dust and dirt. All units circulate and humidify the air. Designed for use with the new G-E Air-Wall system of heat distribution.

General Electric Oil-Fired Warm Air Furnaces are low-cost, compact, easily installed, quiet and long-lasting. They are designed to save you money on fuel bills because of the compressed air-oil impact method of atomization of each drop of oil. Designed for use with the new G-E Air-Wall system of heat distribution.

General Electric Gas-Fired Boilers...turn gas fuel into low-cost comfort. Three to five minutes after the flame goes on, steam is in the radiators, or hot water is pouring out its warmth. Clean, complete and efficient combustion. Heavily insulated, with jacket construction of heavy steel. All models approved by American Gas Association.

For oil heating, use these famous G-E Units.

General Electric Oil-Fired Boilers...give quick comfort, at less cost. The way the oil is burned assures you the most heat from every gallon because (1) the oil is mixed with air into a frothy, bubbly foam; (2) each single bubble is then shattered into millions of particles, and (3) these particles burn completely. Five models.

You can put your confidence in—
GENERAL ELECTRIC
APRIL 1951
2 WINDOWS AND
A SCREEN GLIDE IN
THIS FRAME

Save INSTALLATION TIME
WITH COMPLETE ALUMINUM
Fleetlite WINDOWS

All Seasons
for New Homes

Fleetlite is a revolutionary new window—a complete year-around unit combining interior and exterior double hung windows and screen in an aluminum frame! Fleetlite windows are delivered assembled and glazed in corrugated cartons. It is the greatest advance ever in window design and construction—the ONLY COMPLETE all Aluminum window unit on the market today.

Thousands of Fleetlite windows have been installed in new homes throughout the United States and Canada. Builders are boasting about the easy installation and the spectacular selling advantage of Fleetlite equipped homes. Home owners are delighted with the beauty, convenience and ever-lasting construction of Fleetlite units. Eliminate storm sash. No storage problems, less dirt and dust, warmer winters and cooler summers. Fleetlite features sell homes for you... spell comfort for your customers.

Write today for Complete Literature

Made by
Fleet of America, Inc., 112 Pearl Street, Buffalo, N.Y.

Radiant Heating
(Continued from page 186)

As is common when many new products are placed on the market, there were a few obstacles for the manufacturers of glass heating panels to overcome when their product was first marketed. Because of improper installations by dealers or electricians unfamiliar with the product there was some glass breakage. Other problems arose because of poor inspections at the manufacturing plant and the lack of knowledge on the part of workers in the technique required to assemble this new heating device. All these problems have been gradually eliminated and defects in the product have been reduced to two tenths of one per cent.

BASEBOARD type of glass heating panels installed on porch at Flushing, N.Y.

TYPICAL installation of recessed panel in clay tiled bathroom wall in a residence

Compilation of cost figures on this type of heat reveals that where the kilowatt rate is two cents or less, radiant glass panel heating will compare favorably with oil or coal heating costs in a well-insulated building. The average base rate for this type of electricity use throughout the country is one and one-half cents per kilowatt.

During the 1949-1950 heating season, the Iowa Public Service Co. of Waterloo conducted a study on electric radiant glass panel heating in an average-sized home to determine for themselves, under actual operating conditions, the power require-
Yes — in the full range of building construction, from a small cottage to a huge multi-story skyscraper — you'll find that concrete masonry excels as a building material. Contractors, everywhere, like it because:

It's PERMANENT... Greatly Simplifies Building Job... and Actually COSTS LESS!

When you build with Concrete Masonry, your investment remains as sound as "money in the bank." The first cost is surprisingly low and upkeep is a negligible factor. No loose or broken boards! No sagging or warped floors. No periodic painting required. A concrete masonry structure is built for permanence... assures easier financing... lower insurance rates... and always has a high resale value.

BESSER MANUFACTURING COMPANY
Complete Equipment for Concrete Products Plants
ALPENA, MICHIGAN, U.S.A

NOTE THE BEAUTY of Vibrapac block. Made in a variety of pleasing designs with any desired texture, finish and color.

FREE BULLETIN
Ask for copy of Bulletin No. 51 illustrating standard masonry units available, also names of Vibrapac equipped plants in your area.

Besser Vibrapac
— the fully automatic concrete block machine. Produces high quality masonry units of any desired texture or density.
Haddon Hall Pattern (Basketweave) Flooring Again Available in Choice of Fine Hardwoods

Unavailable since 1942 due to material shortages, this authentic reproduction of the classic English Haddon Hall Pattern is again returned to the Parkay line. Dance floors, show windows, salons, residences, apartments and hotels can now enjoy the beauty of this world-famous basketweave pattern flooring at only a fraction of its original cost.

Pre-fabricated and Pre-finished to Save You Time and Money

Parkay Haddon Hall flooring is factory assembled in 12"x12" beveled edged units composed of 2"x4" and 2"x2" solid blocks 1/4" thick. Each unit is then finished by proven factory methods to insure a uniform and lasting finish. Flooring is applied to any sound, smooth subsurface—solid wood, plywood, concrete, terrazzo—with Special Parkay Adhesive. Choice of five woods—light and medium finish Oak, Walnut, Avodire, Mahogany and Teak. Write for descriptive literature. Parkay, Inc., Louisville 9, Ky.

Radiant Heating

(Continued from page 206)

ments necessary to heat a home with electric radiant panels as the primary heat source. The house selected is at Hudson, Iowa. Excerpts from the report on the test, prepared by John B. Green, follow:

“This five-room bungalow, size 32x28 feet, was constructed in 1949. It is a very well built home combining two bedrooms with full basement and attic. The house is equipped throughout with storm windows and storm doors. Doors and windows are completely weather-striped. The outside walls, ceiling and floors are completely insulated with three-sheet aluminum foil rolls (ALFOL) fitted between the studs, which allow four separate air spaces. The ceiling of the basement is plastered and the attic stairway walls are insulated with the ALFOL. The outside wall construction is asbestos cement shingle siding, tarpaper, 1/8-inch sheathing, the foil insulation and plaster board interior walls.

“There is no duct work because the house was constructed to utilize electric radiant panels as the central heat source. The attic stairway is open and the attic door is not weatherstripped. This accounted for some unnecessary heat loss.

“The total (first floor) heat loss per hour is 26,000 BTU, using NWAH&ACA heat loss formulas and 80 degree temperature difference.

“There are eight 1,000-watt, 220 volt panels installed on the first floor. Three are in the living room, two in the master bedroom and one each in the kitchen, bath and guest room.

... The panels are installed six to eight inches above the floor and, except for the bath, on the outside walls. The units are rated on the basis of the stabilized current input after an operating period of approximately 20 to 25 minutes. When a panel is first
Truscon Series 138 Double-Hung Steel Windows with Sill Ventilators admit a maximum of natural daylight, thus providing superior classroom working conditions; offer more glass area for distant vision; and permit convenient and adequate ventilation. The cost is less, too!

A typical, well-engineered structure using Truscon Series 138 Steel Windows is the Church of St. Mel church and school, Cleveland, Ohio.


See SWEET'S for complete details on the entire line of Truscon Steel Windows for every purpose; and write for detailed literature on all other Truscon Steel Building Products.

TRUSCON® STEEL COMPANY YOUNGSTOWN 1, OHIO
Subsidiary of Republic Steel Corporation
the **BIG NAME** in HEATING
— for warm air heat!

Tailor-made for today's homes!

Mueller Climatrol

Winter Air Conditioners
- For gas or oil: 60,000 to 540,000 Btu. (Type 110 shown)

...meets your customer's demand
for warm air heating at its best!

You're sure to satisfy your customers when you give them what they want. And when it comes to warm air heating they want the Big Name—Mueller Climatrol!

It's a line designed to meet every need — sizes and types for every home... for gas, for oil, for coal... forced-air or gravity... steel or cast-iron... hi-boy, low-boy or horizontal design... unit heaters... conversion burners... Mueller Climatrol fills the bill!

With a Mueller Climatrol you can meet their demands and count on their good will. Specify and recommend the Big Name in Heating. Write for our new "all product" catalog... L. J. Mueller Furnace Co., 2021 D W. Oklahoma Ave., Milwaukee 15, Wisconsin

Radiant Heating
(Continued from page 210)

turned on, it will use between 1,400 and 1,500 watts. The wattage decreases as the temperature of the panel increases until a stable point is reached. There is also one 1,250 watt, 110-volt manually operated panel in the basement shower room. This is a portable plug-in unit

THIS large church in Los Angeles, Calif., is electrically heated with the radiant glass panels installed along the walls

TYPICAL installation in a school. In this room the units are along both walls, one of which is entirely glass from floor to ceiling needed only when the shower is in use. The electricity used by this heater was not included in the test.

"There is a thermostat in each room, which is connected to each of five mercoid relays located in the basement. Each relay is capable of handling up to three panels. The thermostats are located about four feet above the floor and are set for 70 degrees F in the living, kitchen and bath and about 65 degrees in the bedrooms where the doors are kept closed.

"A uniform temperature of 70 degrees was evident even on the coldest day. A test thermometer was placed eight inches below the ceiling in the living room. The air this close to the ceiling was nearly always at 70 degrees F...

A 100 ampere service is provided with No. 4 wire coming in from a

(Continued on page 214)
Extra quality that's easy to spot

You don't have to be a locksmith to see why Russwin tubular locks and latches give you top quality for your bottom dollar. Just a glance at the actuating mechanism reveals these extra-quality features:

1. the unique, all-steel rack and pinion construction . . . simple, strong, trouble-free
2. automatic safety "throw-off"
3. entire locking mechanism housed within the lock case
4. wrought steel case for maximum protection
5. forged brass bolt
6. double compression springs

You might expect that locks and latches with these extra quality features would cost more . . . but they don't. See the complete Russwin Quality Line of tubular locks and latches at your Russwin dealer's. Russell & Erwin Division, The American Hardware Corporation, New Britain, Conn.
Radiant Heating

(Continued from page 212)

15 KVA transformer. Greenfield cable is used from the panels to the relays and heat resistant wire in connections to the panels. The single panels are fused at 15 amperes on both wires, while the double panels are fused at 20 amperes. The circuit never blew a fuse.

"The cost of the heating panels and related equipment was as follows: Eight 1,000-watt, 220-volt panels at $45 each; five room thermo-

Allis-Chalmers

HD-5G

with your choice of
14 interchangeable
Attachments

Weight with standard bucket, 16,200 lb.
... 40.26 drawbar hp...
odiesel-powered ... hydraulic operation

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.

ELECTRICAL radiant glass heating panels are being used extensively to heat dairy barns and milk houses on farms where electricity in rural areas has been made available at $9 each and five Mercoid relays at $14.62 each. Total cost of the heating equipment was $478.10. The cost of the complete wiring job including house wiring and fixtures amounted to $236.50 for labor and $443.60 for materials.

"A separate watt hour meter registered the 200 volt current used by the eight panels in heating. Meter readings were taken on the first day of each month. Total degree days for the season were five per cent greater than the ten year average, or 7,323. The lowest recorded temperature was 14 below zero. Total energy requirements for the season was 10,991 KWH. At the available rate for this installation of 2 1/4 cents per KWH, the cost was $247.30. An
These new 1951 Chevrolet trucks are tops in value. They're tough and rugged. They're loaded to the brim with power. They're thrifty... move massive loads... handle like no other truck. Chevrolet's latest haulers have 51's finest new features, too. Features like new, super-effective brakes that are extra-safe and easy to operate. Features like Chevrolet's Dual-Shoe parking brake, Chevrolet's new Ventipanes and new cab seats that bring you comfort with a capital "C." Visit your Chevrolet dealer and look over these great new trucks. You'll find the right truck for your job!
Cedar-Lux is readily applied by the average laborer on the job. No painting skill required.

With Cedar-Lux it costs you only a few dollars to "feature" a Cedarized Closet as "standard equipment." Using genuine cedar wood panels, even if obtainable, the cost would be many times this amount. Genuine-cedar wood loses odor and effectiveness in about a year. Cedar-Luxed closets retain that woody, cedar smell and give protection against moths for years.

Not a substitute for cedar. It is Cedar! Crushed cedar scientifically treated. Can't wash off! Can't rub off! Cedar odor stays indefinitely. Perfect protection for fur, valuable wearables.

Radiant Heating
(Continued from page 214)

analysis of the ratios between KWH consumption per month and the number of degree days per month shows that during the colder months a greater amount of KWH's are required per degree day.

Another test has been made on a house in Hartford, Conn. This home is of Cape Cod style, two-story frame construction with three bedrooms, living room, dining room and kitchen. There are two bathrooms, a large upper and lower hall, a basement playroom, workshop and laundry. The house is fully insulated with complete storm doors and windows. Three outside doors are weatherstripped but casement windows are not. Appropriately designed temperature of 70 degrees and an outside temperature of 5 below zero the net total calculated heat loss was figured at 48,700 BTU per hour. The house has 2,101 square feet of living area, with 742 square feet in the basement, which is also heated.

A total of sixteen 1,000-watt, 230-volt radiant glass heating panels were installed, with eight zones of heat, each controlled by its own thermostat. In the season studied there were 6,198 degree days and the total electrical energy consumption was 18,267 KWH.

In both of the test houses discussed here, which are equipped with Continental Radiant Glass Heating Corporation’s Glassheat, occupants reported completely satisfactory comfort conditions at all times.

The Louis Sterchi Furniture Co. of Bristol, Tenn., recently installed radiant glass baseboard heating panels in a new display room 90x170 feet with a cubic footage of 190,000. In a copyrighted report prepared for the Appleman Art Glass Works, Inc., manufacturers of Electriglas electric radiant heating panels, Joseph Marshall says: "A combination of perimeter heating and radiant heating through the use of Electriglas electric radiant glass baseboard, installed in the new building of the Louis Sterchi Furniture Co. provided an excess of 65 degrees of rise and an air temperature uniform within two degrees in space and one degree in time over 190,000 cubic feet, maintaining an air temperature of 70 degrees and a relative humidity of 60 percent and providing a very high quality of heating comfort, with the remarkably low capacity of .29 watts per cubic foot." The test was run during two weeks following January 24, 1951.

Renew Your Subscription

Renew Your Subscription...
It was the time my mother-in-law first came to visit us in our new house. As we started to go inside, she somehow spied the Honeywell Anticipating Thermostat.

"Now what in the world is that?" she asked.

"It's one of the thermostats of our electronic temperature control system," I explained.

"But why outside?"

"Well, you see, it matches our heating to any change in the weather. It works with other thermostats inside to keep the house comfortable all day long."

I thought she'd forgotten about it until later, one night at dinner, she said, "Jim—those new houses you're building. Do they all have the same kind of heating arrangement—I mean, will they all be as cozy and warm as yours?"

"Absolutely! Honeywell Moduflow—as we call it—is a standard feature of every house I build."

"Do people know about it?" she asked. "Because it would certainly sell me this house. Fast! I only wish they'd had such things when Harry and I built our house."

That caused me to shift gears in my sales approach. Electronic controls—100 times more sensitive than standard controls—had gone into my houses because I knew my customers would be more comfortable and better satisfied. But, gosh, I'd never really looked on Moduflow as being a sales feature. Believe me, I do now! It's one of the first things I point out in my sales talks and in my advertising. And, brother, how it pays off!

Thanks to my mother-in-law, I discovered Honeywell Electronic Moduflow is the sales idea of the year. Electronic controls can help you sell houses, too. For more of the why's and how's call your local Honeywell office. Or write Minneapolis-Honeywell Regulator Co., Department AB-4-39, Minneapolis 8, Minnesota.

"I only wish they'd had such things when Harry and I built our house," said my mother-in-law.
Better Design

makes the difference
• in easier handling
• faster sawing

Model 160
6" Saw

Model 180
8" Saw

Model 160—Straight cut: 2" max.; 3 3/4" min. Bevel cut at 45°: 1 1/2" max.; 3 1/4" min. Net weight: 10 lbs. 4 oz.


Bradford engineered design has taken the awkward "bulk" out of old-time powered hand saws — and created a streamlined, precision tool that glides through the work with easy, effortless control. Only a Bradford has the fine balance that gives greater ease of handling in any working position.

Bradford Saws are designed inside and out to take on the toughest sawing jobs. Ball bearings with permanent lubrication are used throughout. Heat-treated alloy steel helical gears give maximum driving power. A powerful, 110 volt AC/DC motor drives the blade with quiet, cool-running efficiency.

Own a Bradford — they are popularly priced and the choice of craftsmen everywhere. See your tool supplier for a demonstration or write direct for free bulletin giving complete specifications and prices.

The BRADFORD MACHINE TOOL CO.
654 Evans Street
Cincinnati, Ohio

Precision Since 1840

Association News, cont’d

Atkinson

mountable type housing in areas where the need will not extend beyond the defense emergency.

(4) FHA's insuring authorization increased sufficiently to cover both present and proposed FHA operations. Atkinson said FHA's insuring operations during the past 17 years have constantly shown a very substantial profit and have not required expenditures from the Federal treasury, as is sometimes mistakenly assumed.

(5) Extension of the Wherry Act for two years and amendment to include projects of the Atomic Energy Commission.

(6) Financial assistance to provide utilities or community facilities in defense areas where local governments are unable to furnish such aid.

(7) Suspension, at least during the emergency, of the present tax-subsidized public housing program.

Dealer Conventions

Clarence D. Burkholder

Cincinnati; and Dr. W. H. Alexander, First Christian Church, Oklahoma City.

A popular feature was a dealer clinic covering nine phases of the Retail Building Materials market in 1951.

Michigan

Walter A. Peacock of Port Huron was elected president of the Michigan Retail Lumber Dealers convention at the group's 62nd annual convention in Grand Rapids February 6-8.

Other 1951 officers are T. P. Peterson, Grayling, and Donald P. Verlee, Jr., Northville, vice presidents; Norman B. Cove, Lansing, treasurer; Hunter M. Gaines, secretary, and Donald J. Moore, assistant secretary, both of Lansing; and Donald P. Schuur, Detroit, counsel.

Attendance at the meeting totaled 2,135 and there were 118 exhibits.

One of the program highlights was an audience participation panel discussion. Panel members were Edward G. Gavin, American Builder editor, moderator; C. A. Champa, Chicago, Ill., dealer; Robert E. Russell, managing editor, American Lumberman;

(Continued on page 220)

linoleum underlay

drive screws

To make your linoleum underlays hold tightly and lay flat permanently, secure them with Hassall linoleum underlay drive screws. They are spiral-threaded and cement-coated for maximum holding power. Heads are flat countersunk type.

Size: 1/8" x #3 ga. State quantity when writing for prices to:

JOHN HASSALL, INC.
186 Clay Street
Brooklyn 22, N.Y.
Established 1850

LUX-RIGHT
NATION'S BEST
METAL AREAWALLS

ST. PAUL CORRUGATING CO.
1412 1st Street West
St. Paul, Minn.

AMERICAN BUILDER
Add to the beauty—
protect it permanently!


Use "Century" ASBESTOS-CEMENT ROOFING SHINGLES

Colors to please every customer
Attractive roofing of stone-like durability! "Century" Asbestos-Cement Roofing Shingles add to the beauty of any home—protect it against weather; are not affected by termites; will not rust or rot. And, being entirely mineral by nature, they cannot burn—are eligible for lowest fire insurance rates... a point any home owner appreciates!

The broad color selection is another "owner pleaser." "Century" Roofing Shingles are available in Spanish Red, Surf Green, Gray Duoface, and Black. These are "built in" colors—won't weather out; won't fade—don't ever need painting to preserve their beauty.

And tell your customers about the economies, too! "Century" Roofing Shingles are moderately priced; are specially designed for quick, easy application. With advantages like these, you can build your business—increase your profits—with "Century" Asbestos-Cement Roofing Shingles. Ask your Keasbey & Mattison dealer for details, or write us direct.

About the "Century" Shingles on the above residence...
"Century" Asbestos-Cement No. 5 Shingles, American method appearance; random-width, thatched butt design. Application cost is low—each unit covers more than 1 sq. ft. of exposed area; 90 shingles per square; 2 nails per shingle; self-aligning. Give complete weather protection on roof pitches as low as 4" rise per foot.

Original manufacturers of Asbestos-Cement Shingles in this country
KEASBEY & MATTISON COMPANY - AMBLER - PENNSYLVANIA

APRIL 1951
Association News, cont'd

Edward H. Libbey, National Retail Lumber Dealers Association secretary; and Charles M. Mortenson, managing director, Producers' Council.

Other speakers included Clyde A. Fulton, NRLDA president; Robert F. Gerholz, 1950 president of the National Association of Real Estate Boards; and G. F. Hoppe, sales promotion manager, Minnesota and Ontario Paper Co.

Western Pennsylvania

A fight against black markets was pledged by the Lumber Dealers Association of Western Pennsylvania during its recent convention in the William Penn Hotel, Pittsburgh.

The association resolved to ask wholesalers to transmit to manufacturers an appeal urging consideration of an equitable quota system, and called upon members to report black market products to the association for submittal to proper authorities.

Attendance at the 44th annual meeting reached 1,110 and there were 58 exhibits.

George B. King of Tidoute was re-elected president of the group. New vice presidents are M. R. Fetterhoff, Johnstown, and V. L. Smyers, DuBois. Also re-elected were S. W. Means, treasurer; R. F. McCrea, secretary-manager; and R. P. Greiner, assistant secretary-treasurer, all of Pittsburgh.

Speakers included C. A. Luce, manager, West Coast Lumbermens Association; Daniel J. Boone, manager, merchandising division, Zonolite Co.; Harold K. Wilson, eastern representative, Douglas Fir Plywood Association; Joseph F. Leopold, Dallas, Tex.; Nathan H. Gist, New York City; and H. Roe Bartle, president, Missouri Valley College, Marshall, Mo.

Middle Atlantic

A highlight of the 59th annual convention of the Middle Atlantic Lumbermens Association was a management workshop in which experts discussed the effect of current national and international problems on the retail lumber and building materials dealer. The convention was held February 7-9 at Atlantic City, N. J.

Moderator of the "workshop" was J. Ewing Kennedy, director of Pennsylvania state college's management training extension program. It was held each of the three days of the convention, with a panel of speakers each day.

The Middle Atlantic Silver Plaque was presented to Senator Robert A. Taft of Ohio at the annual banquet, honoring him in absentia "for charting a course of sanity and safety for America." The plaque was accepted for the senator by Miss Bertha S. Adkins, director of women's affairs for the Republican national committee.

Fred P. Adkins, Salisbury, Md., was (Continued on page 222)
Don't guess about quality
Be sure with names you know!

These Trademarks on doors you buy are quality insurance

Hollow core flush doors today can almost be described as a building "staple." Probably no other building item has had such a sudden and sustained consumer acceptance and demand.

Be sure you reward that demand with the quality it deserves. Install Weldwood Honeycomb Core or Mengel Hollow Grid Core Doors.

THE WELDWOOD HONEYCOMB CORE DOOR is a new development of the United States Plywood Corporation. Thoroughly tested in actual service, it is extremely strong, exceptionally light, eminently serviceable and unusually attractive...this new door can be had with birch, oak, Korina or other hardwood faces. Here's top-flight quality at low prices.

THE MENGEL HOLLOW GRID CORE DOOR has thousands of satisfied users to attest its quality. A long-time, low-cost favorite, this popular door is available with faces in a wide variety of beautiful, decorative hardwood veneers.

Don't accept any substitutes. Wherever you have a requirement for interior flush doors, make certain the doors you install bear one of the trademarks above. That way, you can be sure about quality, with a name you know.

United States Plywood Corporation carries the most complete line of flush doors on the market including the famous Weldwood Fire Doors, Weldwood Stay-Strate Doors, Weldwood Honeycomb Doors, Mengel Hollow-core Doors, Mengel and Algoma Lumber Core Doors, 1¾" and 1½" with a variety of both foreign and domestic face veneers.

United States Plywood Corporation
Manufactured and distributed by
UNITED STATES PLYWOOD CORPORATION
55 West 44th Street, New York 18, N. Y.
Branches in Principal Cities • Distributing Units in Chief Trading Areas
Dealers Everywhere
That's what builders through-out the country are saying. They know that the Leigh Line of Ventilators is the complete line with a size and a type to fit every ventilating job. They know too, that while the quality is high the price is right.

**ATTIC VENTILATORS**

Built in two styles — recessed and flush type. Louvers have rolled edges for greater strength and better looks and they are designed to keep out rain and snow. These Ventilators are screened in the back. Available in a wide range of sizes.

**TRIANGLE VENTILATORS**

Low price, peak type Ventilators. Two sizes — 9 x 12 pitch with wide flange fits 8-12 or 10-12 pitched roofs. A 6 x 12 pitch fits 5-12 or 7-12 pitched roofs. A sturdy large area ventilator with no loose or sliding parts.

**New ROOF VENTILATORS**

A really new idea in Roof Ventilators. Made in two sizes, 60 sq. in. and 40 sq. in. of ventilation. These ventilators are open on three sides with a screened venturi type opening that really moves the air out of the attic. One piece base eliminates any chance of leakage. Both are small and compact with a very low silhouette.

And don't forget the Leigh Foundation Ventilator. Also, Brick, Cement Block and Thru-the-Wall Ventilators.

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**Association News, cont'd**

Awarded the Civic Achievement Bowl for 1950 as the lumberman "who has done most to promote better understanding, better human relations and better living in his community."

Named as association president for the third consecutive year was Claude G. Ryan of Lancaster, Pa. Vice president is G. Hunter Bowers, Frederick, Md.

Convention registration totaled 1,475. Ninety booths were occupied by 68 exhibitors.

**Kentucky**

High interest in two panel discussions — on local and national problems — was given a major share of the credit for attracting a record number of registrants to the 46th annual convention of the Kentucky Retail Lumber Dealers Association January 15-17 at the Brown Hotel, Louisville. Attendance was 853 and there were 12 exhibitors.

Sam Levy, left, 1951 Kentucky President, and Elbert Myers, vice president

On the local problems panel were Lloyd Yeager, secretary of the National Gypsum Association, Chicago; Sid L. Darling, secretary, National- American Wholesale Lumber Association, New York City; C. Boyd Mahin, attorney, MacLeish, Spray, Price and Underwood, Chicago; and W. W. Owlsley, lumber dealer, Cynthiana, Ky.

National problems were discussed by Roscoe R. Dalton, state director of the Federal Housing Administration, Louisville; H. R. Northup, executive vice president of the National Retail Lumber Dealers Association; John L. Haynes, Department of Commerce, Washington; and Rumsey Taylor, lumber dealer, Princeton, Ky. Moderator for both sessions was Don A. Campbell, Lebanon, Ky., secretary-treasurer of the Kentucky Association.

Sam Levy of Louisville was elected president for 1951, Elbert Myers, Glasgow, was named vice president, and Don A. Campbell, executive vice president.

**Mountain States**

High interest in the 58th annual convention of the Mountain States Lumber Dealers Association was evidenced by a record registration of 1,000, heavy attendance at all business sessions and a capacity number of exhibitors — 60. The meeting was held in the Shirley-Savoy Hotel, Denver, February 7-9.

(Continued on page 224)
Most Efficient Tool Combination

for fitting doors and windows

You're dollars ahead on every building job with this Stanley team working for you. Extra power and convenience make for faster, better fitting of doors, windows, screens, transoms, etc.

STANLEY ELECTRIC PLANE No. J5
The most powerful electric plane on the market! Full 1 h.p. motor drives spiral cutter 18,000 r.p.m. Planes surfaces up to 2½" wide. Adjustable for straight or bevel cuts to 45°, and for depth-of-cut to 3/16". Polished aluminum casting... strong, light, rustproof. Plane furnished with bench bracket and patented grinding attachment for sharpening cutter. Can be used as jointer.

STANLEY SASH AND DOOR HOLDER No. GA-156 — Solves problem of holding door or window firmly while planning or routing for hinge butts. Eliminates makeshift sawhorse arrangements. Easy to handle... lightweight. Holds any normal-size door, screen or other woodwork up to 4" thick. Clamps and releases automatically. See your dealer or write for complete catalog. Stanley Electric Tools, 400 Myrtle St., New Britain, Conn.

For clean, time-saving sawing, use Stanley Safety Saws.

W65 — 6" diameter
W7 — 7½" diameter
W8 — 8" diameter
W9 — 9½" diameter

STANLEY

HARDWARE • TOOLS • ELECTRIC TOOLS • STEEL STRAPPING • STEEL

APRIL 1951
Association News, cont’d

The four business sessions were highlighted by a forum on “Materials Handling and Yard Planning Problems and Methods,” a sound and color film on lumber grading, a clinic on dealer operations under a controlled economy, and a “Mobilize for Selling” talk by Chester C. Kelsey of the Asbestos Cement Products Association.

J. F. Scott, Denver, was named president for the 1951 term. T. H. Walker, Casper, Wyo., is vice president. New directors are Walker, F. E. King, Pueblo, Colo., and F. L. Smith, Roswell, N.M.

Ohio

William H. Stone of Bryan, was elected president of the Ohio Association of Retail Lumber Dealers at the group’s 70th annual convention January 29-31. Stone, former vice president, succeeds John M. Horn of Hamilton.

Registration at the 1951 meeting, held at the Netherland Plaza Hotel, Cincinnati, was 2,700.

Other new officers are James H. Clemens, Youngstown, and Homer Prakel, Versailles, vice presidents; and Allen Brain, Springfield, treasurer.

Featured speakers included Clyde Fulton, president of the National Retail Lumber Dealers Association; Edward G. Gavin, American Builder editor; Col. Robert B. Brooks, St. Louis business analyst; Dr. William H. Alexander, First Christian Church, Oklahoma City.

Utah Association Sponsors Seminar on Building

A seminar for the light construction industries of the state, jointly sponsored by the Utah Home Builders Association and the University of Utah, was held February 14-17 in Salt Lake City.

The program, which covered contemporary methods of designing, planning and building, was arranged by Prof. Roger Bailey, director of the university’s department of architecture. Films, lectures and panel discussions were included.

The regular membership meeting of the association was held in conjunction with the seminar. Alan E. Brockbank, seminar chairman, was in charge of the meeting program.

Plywood Leader Chosen For Price Control Post

Norman O. Cruver of Tacoma, Wash., a past president of the Douglas Fir Plywood Association, has been named price executive for the lumber and wood products division of the Office of Price Stabilization, one of the four top jobs in administering present and future controls for all of the nation.

(Continued on page 226)

SQUARES 2"x2" 2½"x2½" 2¾"x2¾"

PRICE $44.90 $60.30 $68.50

JULIUS BLUM & CO., Inc.
532 West 22nd St., New York 11, N.Y. * Walker 9-7042
AMERICAN BUILDER

Floor for the years to come ... with Northern Hard Maple!

For 1951 modernization work—industrial plants—defense and low-cost housing—residences—schools—military construction. MFMA grades for every purpose: First Grade for “high style”—Second, utility and appearance—Third, utmost value with economy ... or Combination Grades, Second-and-Better, Third-and-Better. MFMA Grading Rules, technical data, FREE. Write: MAPLE FLOORING MANUFACTURERS ASSOCIATION, Suite 550, Pure Oil Building, Chicago 1, Illinois.
The finest automatic heating—at a price that cuts your costs!

Coleman Floor Furnaces

Both buyer and builder share in the work-saving economy of Coleman Floor Furnaces. These wonderful heating plants come in one compact package ready to install in the floor! Engineered for homes with or without basements, they eliminate excavations, duct work and extra plumbing costs! Heats 3 to 5 rooms.

The “move-the-heat” action of Coleman Floor Furnaces means a lot more healthful comfort for your customers. With Coleman, low-cost homes can be better-heated homes! Automatic Coleman Floor Furnaces circulate clean, warm air where it's needed. Uniform comfort for the whole family, plus warm floors for the children's health!

There are Dual Wall and Flat Register Models. The Flat Register Model lies flush with the floor. The Dual Wall Model fits beneath wall or partition to heat two adjoining rooms at the same time. Models for Gas, Oil and LP-gas. Find out more about this ideal low-cost heating service—write for complete information today! The Coleman Company, Inc., Wichita 1, Kansas.
PROTECT
MASONRY FROM
WATER AND STAIN
DAMAGE

The invisible Silicone Base
WATER REPELLENT
for New & Old Walls

Now, more than ever, it is important that masonry receive positive protection from destructive water and unsightly stains. Cor-O-Pel is proven to be thoroughly effective for more than ten years. It is "custom manufactured" for use on stone, cement, brick, etc. and is very effective in mortar joints.

COR-O-PEL IS WATER RESISTANT
COR-O-PEL is produced from Silicone—invisible—permanent—heat stability—water repellence—yet it penetrates deeply—leaves the surface unchanged in color or texture.

COR-O-PEL IS STAIN RESISTANT
COR-O-PEL prevents unsightly efflorescence (salts) from leaching out of the exterior masonry surface and stops moisture from carrying stains into the masonry surface.

ONE APPLICATION DOES THE JOB
One application of COR-O-PEL is all that is required, making it unusually economical in both labor and material. COR-O-PEL may be applied at any temperature. It is recommended for above grade application only.

Our confidence in the outstanding effectiveness of this product is found in our invitation that you test it for yourself at our expense.

CON-COR PAINT COMPANY
2119 E. 56th St., Minneapolis 17, Minn.

Severe Drop in Starts
Seen by MBA President

A severe drop in housing starts is coming just as soon as present commitments for FHA-insured mortgage loans and VA-guaranteed loans are absorbed, members of the Mortgage Bankers Association of America were told at their recent mid-winter mortgage conference in Chicago.

The forecast was made by Milton T. McDonald, MBA president, who had previously said that a drop of as much as 50 per cent might be in store for the building and real estate financing fields this year.

More than 650 mortgage, commercial and mutual savings bankers, real estate executives, title and trust company officials and officers of life insurance companies attended the conference, the largest regional meeting the association has ever sponsored.

Other speakers included Raymond M. Foley, administrator of the Housing and Home Finance Agency; Franklin D. Richards, commissioner of the Federal Housing Administration.
She expects you to build it well

Don't Overlook

Water Repellent Wood Preservative

- Stops Rot and Termites
- Reduces Swelling and Shrinking
- The Cost is Little—the Protection Long

On sills, studs, posts, sleepers... on porch flooring and steps... on wood gutters... Cuprinol treatment is a proven protection against rot and termites.

On doors, windows, jambs, frames... on fitted mill work of all kinds... Cuprinol treatment reduces the absorption of moisture that causes warping, shrinking and swelling — and criticism of your job.

On Plywood Cuprinol treatment minimizes grain raising and separation checks and subdued prominent grain patterns to give a lasting smoother finish under paint, stain or varnish.

Easily applied by brush, spray or dip on-the-job. There is Cuprinol Green for general use by itself or under paint, and Cuprinol Clear under paint, varnish or stain. Carried by lumber yards and building supply dealers.

See Sweet's File for Builders 2b/CU or write for information on types of Cuprinol for specific uses.

CUPRINOL Division, Darworth Incorporated
56 Maple Street Simsbury, Conn.

ARCHITECTS like it, along with heating contractors, because they know the high quality of BASE-RAY® and with this hookup they can provide ultra-modern hot water heating at a satisfyingly low price.

BUILDERS like it because it cuts the overall price of a house, yet provides lifetime, trouble-free heating... also because it's ideal for the modern, ranch-type and basementless-houses.

HOME OWNERS like it because they are on the receiving end... and they get the very latest in radiant heating comfort... with complete assurance mechanical upkeep will be practically nil.

Try this series hookup! with sturdy cast-iron BASE-RAY Radiant Baseboards. It's a combination that you can specify with complete confidence!


To assure your clients an abundance of low-cost, year-round domestic hot water, there's nothing like a Burnham PACEMAKER or YELLO-JACKET Boiler with built-in copper water heater—tankless or storage type.
Association News, cont'd

T. B. King, chief loan guaranty officer, Veterans Administration; and
W. A. Clarke, Philadelphia mortgage banker, now special consultant to the
Office of Real Estate Credit in the
Federal Reserve System.

New England LP-Gas Group
Joins National Association

Affiliation of the Liquefied Petroleum Gas Association of New England
with the Liquefied Petroleum Gas Association, Chicago, national trade
organization of the LP-Gas industry, has
been announced.

Under the affiliation, the New England group, representing Maine, Mas
sachusetts, Connecticut, New Hampshire, Rhode Island and Vermont,
becomes a district of LPGA, but continues to op
erate with autonomy in its own area.

Plumer E. Pope, East Weymouth,
Mass., is president of the New Eng
land Association. Louis S. Davis, ex
ecutive secretary, has been appointed
district secretary.

L-P Gas Meeting May 7-10

Speeches on industry problems
growing out of the national emergency
will keynote the 1951 convention of the
Liquefied Petroleum Gas Association,
scheduled May 7-10 at the Stevens Ho
tel, Chicago, it has been reported by
Howard D. White, executive vice pres
ident.

White said that approximately 2,000
persons are expected to attend the
meeting, which will mark the associa
tion's 20th anniversary.

ASHVE Awards Plaque
To Executive Officer

A bronze plaque "in recognition of
25 years of loyal service" to the Amer
ican Society of Heating and Ventilat
ing Engineers was recently presented
to Aubry V. Hutchinson, executive
secretary. The award was made for
ASHVE by Lauren E. Seeley, presi
dent, who is dean of the College of
Technology, University of New Hamp
shire.

Hutchinson, a native of Brooklyn,
N.Y., became secretary of the society
in 1926 after having been editor of sev
eral engineering trade publications.

Detroit Industry Group

John Weinhart, president of the
Builders Association of Metropolitan
Detroit, has been named first vice pres
ident of the Detroit Construction In
dustry Council, a joint organization
of trade associations and other groups
in the construction field. One of Weinh
hart's jobs will be chairmanship of the
Council's slum clearance committee.

SPACE SAVER

The Bessler Disappearing Stairway
makes the upper story a valuable
asset to the home without using
space in the room below. When
not in use it slides into the ceiling
and out of the way.

It sells houses faster. Home owners
appreciate this useful added space.
Alert contractors are using the
Bessler Disappearing Stairway.

Easily assembled and installed.

Made in seven models.

THE BESSLER DISAPPEARING STAIRWAY CO.
1900 E. Market St.
Akron 5, Ohio

MORE SALES!
MORE PROFITS!

Write today for literature and
trade discounts

You can't miss with
SCROLL-ETTS — at
tractive cast alu
mum, filigreed
high-relief scrolls
that add beauty and
picture frame the
screen or storm
doors. Gleaming
white enamel or
semi-polished aluminum finish for wood or
metal doors, storm doors or screen doors.
Retail from $7.50 to $16.00 per set. Pack
aged complete with mounting screws, ready
for easy installation.

MANUFACTURERS AGENTS - Some choice territories
still open. Write, giving complete information.

Beaux Art Crafts
2015 BROOKFIELD RD. PITTSBURGH 16, PA
HOLT Floor Machines
are your BEST BUY
and here’s WHY!

Exclusive Holt patented features help you to do better work faster. Every Holt Machine is job proved through years of trouble-free, top-notch performance on the toughest floor work. And — every Holt Machine is built to make more profit for you.

HOLT PROFESSIONAL SANDER,
SNMPL 12. Fast, smooth; super-accurate cut. Chatterless operation, demountable drum cushion, improved vacuum system, fingertip motor speed selector, two H.P. motor and many other features. NMPL 8 (not shown) has 8-inch drum width.

HOLT ARISTOCRAT, A16. All-purpose floor maintenance machine. Hand-grip control; heavy duty enclosed capacitor motor; self-leveling brush bracket; lifetime grease sealed gear reduction unit; many other features.

HOLT WHIRLWIND SPINNER. Heavy duty, super-powered. Five tools in one — sands, wire brushes, grinds, planes and bevels.

HOLT HAND SCRAPER. Life-Time, Vice-Jaw scraper for old paint and varnish. Easily sharpened double-edge tool steel blades. Heavy brass or light weight aluminum models.

HOLT HOPPER-TYPE NAILING MACHINE
For accurate top nailing of floors, plywood, wallboard, sheet metal, tile board, etc. Comes complete in handy case. Magnetic feeder prevents clogging, jamming, speeds up work. Takes floor brads and common flat nail heads.

HOLT HORIZONTAL ROTARY EDGER, HD EZE-77. Designed for accuracy, ease of control and dust-free operation. Ideal for close work in confined areas, also for glass beveling, marble and tile — many other uses. Studly, universal motor.

Write to Department 451 today for complete information on these and other of the famous profit-making, precision-built Holt line of Floor Machines.

HOLT MANUFACTURING COMPANY
651 20th STREET, OAKLAND 12, CALIFORNIA
272 BADGER AVENUE, NEWARK 8, NEW JERSEY

APRIL 1951
Association News, cont'd

Controls May Sap Strength,
Building Group Leader Warns

The building industry is better prepared and equipped to meet all defense construction demands than it was at the start of World War II, but its efficiency could be seriously impaired by unrealistic government restrictions, Fred J. Driscoll, new president of the Building Trades Employers' Association said at the group's annual meeting held recently in New York.

Driscoll, head of the George F. Driscoll Co., general contractors, is BTEA's 14th president, Harry J. Stellman was named first vice president. Re-elected were Eugene Duklauber, second vice president; Perry S. Dewey, third vice president; and J. George Costello, treasurer.

The employers' group, an organization of 14 separate trade associations, in the building industry, represents 1,000 general contractors and sub-contractors.

Short Course Teacher
Is Former Student

When the annual 30-day Retail Lumber Dealers Course sponsored by the Illinois Lumber and Material Dealers Association was held at Robert Allerton Park, Monticello, in 1947, Alvin K. DeWilde, Eureka, was a student, gaining the highest scholastic ranking in the class.

This year DeWilde was back at the school, but had graduated to the position of instructor, the first student to earn the distinction. His subject was hardware.

DeWilde has been associated with the K. J. C. Proctor Lumber Co., Peoria, for 12 years, the last four as head of the hardware department. A graduate of Eureka College, he spent three years in the Navy during World War II.

Enamelware Group Elects

Henry J. Held Chairman

Henry J. Held, vice president of the Universal-Rundle Corp., was named chairman of the Enameled Cast Iron Plumbing Fixtures Association at a recent meeting in Chicago.

Members of the executive committee, in addition to Held, are David J. Crane, vice president of the Eljer Co.; O. A. Kroos, executive vice president, Kohler Co.; and W. G. Moore, president, Humphreys Manufacturing Co.

It was reported at the meeting that bathtub shipments in 1951 reached a record 2,290,000, the highest previous production having been attained in 1948 when 1,899,994 were shipped.
This low-priced
UTILITY HARDWOOD
PLYWOOD
takes perfect
"NATURAL" FINISHES!

Mengelbord* is a low-priced, one-piece face, 3-ply, utility hardwood plywood, ¼" thick. Made from beautiful White Tupelo Gum (a genuine cabinet-maker's hardwood). It is ideal for "natural" finishes!

Mengelbord is ideal for all interior uses:
- DRY WALLS
- CABINETS
- STORE FIXTURES
- FURNITURE

Write today for descriptive literature.
No obligation, of course.
Where fine wood panels of Mahogany, Oak, Birch or Walnut are desired—ask for Mengelux®. Literature on request.

THE MENGEL COMPANY
Plywood Division • Louisville 1, Ky.

---

CANVAS AWNINGS
make
your selling job easier!

- There's a real dollars and cents advantage in favor of Canvas Awnings on new homes of every kind. They not only increase salability but they also pay a profit on costs of materials and installation. First summer occupants of homes protected by Canvas Awnings are enthusiastic in their praise compared with the discomforts of no protection against the sun. As a good-will factor, nothing will do so much at such low cost.

Your local Canvas Awning dealer's service covers fabrics, hardware, and installation service.

THE CANVAS AWNING INSTITUTE, INC.
and NATIONAL COTTON COUNCIL

*There is No Substitute for Canvas Awnings*
45% MORE METAL HEAT-RADIATING SURFACES AT NO EXTRA COST

with the exclusive Radiant Blades in

Majestic CIRCULATOR FIREPLACES

Build a "heat bonus" into any home, easily and at low cost, by fitting masonry around this all-inclusive fireplace core. It's properly proportioned to work perfectly! Saves labor, materials. Send for details.

Majestic Co.
300-B Erie St., Huntington, Ind.

Also a complete line of Outdoor Fireplace Units. Write today.

WHAT! ... No Corner Bracing?

4' BILDRITE* SHEATHING

That's right! 4' Bildrite is the first insulating sheathing to meet the rigid requirements of F.H.A. for use without corner bracing. Now save $25.00 to $30.00 more per house.

Tell Sources of Military Contracts Information

Names of contractors awarded Army, Navy and Air Force contracts of $25,000 or more are made available on a weekly basis through Department of Commerce and Armed Forces field offices and all Army, Navy and Air Forces purchasing offices now serving as outlets for procurement information, the Department of Defense has reported.

This service, in effect since July, 1950, provides businessmen with a weekly synopsis of unclassified contracts, whether negotiated or formally advertised, through more than 1,200 information outlets. A similar arrangement funnels information from the purchasing offices of the General Services Administration and other government agencies to the same outlets.

The service is especially useful as a service for subcontractors, the Department said, and usually there is no need for a businessman to go farther than the nearest procurement information field office to handle defense contracts.

Predicts Gypsum Supply Will Meet All Needs

Gypsum production facilities will be put to the most severe test in the history of the industry by the government's accelerated rearmament program combined with demands carried over from the record 1950 home building boom, Lloyd H. Yeager, general manager of the Gypsum Association, said in a recent statement on production.

Enormous quantities of gypsum products will be needed, Yeager stated, to meet military demands for more airplanes, tanks and guns, the manufacture of which requires gypsum casting plasters; for the general building program on the civilian front and for special construction in key areas to house military personnel and industrial workers.

He predicted, however, that barring acute labor shortages or other unforeseen slowdowns, the industry would meet all "war" requirements for gypsum and would supply civilian needs for new home and industrial construction and remodeling.

Yeager reported that manufacturers are now geared to produce more than six billion square feet of gypsum board (lath, sheathing and wallboard) annually, an all-time high rate. In addition, he said, the industry, because of its vast expansion since World War II, is in a much better position than ever before to meet demands for gypsum products.
DURALL SCREENS
the fastest, most economical way
to give your houses
fine quality screens!

SNAPS INTO PLACE FROM INSIDE! Flick
of a finger installs Durall. No ladder
climbing, no side frames to cut.

ALUMINUM! NO RUST AND NO PAINTING! Durall keeps its good looks, will
not rust or stain house.

ROLLS UP FOR STORAGE! Durall swings free for window washing... makes compact roll for storing.

DURALL Tension Screens are made by one of the oldest manufacturers of wire screening. For complete information, write the New York Wire Cloth Co., Dept. AB-4, 445 Park Avenue, New York 22, New York.

You can get ideal light construction levels made by David White

This low-priced, reliable David White Improved Light Construction Level No. 8020 is simple and easy to use. Telescope 10" long, 10 power. Graduated spirit level. 45° dih. circle graduated in degrees in quadrants. Has leveling screws and clamp screws. Complete with instruc
tion book, carrying case, plumb Bob, hinged leg tripod, rod and target. List price: $35.00.*

The David White Improved Light Construction Level Transit No. 8022 is a low-priced, simple, complete combination instrument. Levels and plumbs from same set-up. Has same features of instruments costing $100.00 or more. 2½" graduated spirit level. Vertical arc 25½° graduated. Horizontal circle — 45° graduated in degrees in quadrants. Base has 4 leveling screws and shifting center. Clamp and tangent screws for vertical arc and horizontal circle. Complete with instruction book, carrying case, hinged tripod, plumb bob and rod with target. List Price: $75.00.*

How many times have you wished for easy-to-use, low-cost levels and transits? Instruments ideally suited to light or rough construction work — basement excavating, landscape grading, trenching, tiling, concrete work, laying out building lots, etc. Here’s your answer. These instruments are fully guaranteed. Small contractors have successfully used them for years. Big contractors often supply their individual crews for on-the-job service. See them at your nearest David White dealer or write us direct for liter-

David White Company, 311 W. Court Street, Milwaukee 12, Wisconsin.

We offer complete, prompt repair serv-

APRIL 1951
KOHLER
ELECTRIC PLANTS

Portable and Mobile

Low cost portable power, easy to transport for jobs where power line is not available. Saves time — operates saws, drills, pipe threaders, cutters, other tools having universal (AC-DC) motors. Develops 1500 watts for intermittent service. Compact, weighs only 75 lbs. Handle for carrying. Other models, 350 watts to 15 KW. Write for folder 17-A.

MODEL 1.5M5, 1500 watts, 115 volt DC, Manual control. Length 18", width 14", height 21".

Kohler Co., Kohler, Wisconsin. Established 1873

KOHLER OF KOHLER
PLUMBING FIXTURES • HEATING EQUIPMENT • ELECTRIC PLANTS
AIR-COOLED ENGINES • PRECISION PARTS

FINISHED Norge pre-cut cottage

Log Cabin Technique Used in Precut Home

The old log cabin type of construction has been borrowed for a new precut, packaged home proving popular particularly as a summer cottage but adaptable for year-around occupancy.

The “log cabin” houses are built of 2x8-inch t&g planks, interlocked at the corners and requiring no nailing. Planking is double-tongued into rabbeted window and door frames. Partitions are dovetailed into the walls. The system makes for an extra-strong wall frame.

Introduced in this country by the Norge Co. of Norway, the construction is called the Tregaard Interlocking System. It has been featured in several shelter group magazines with emphasis on adaptability for simple and speedy erection.

Each piece of the house is cut to exact length and numbered to show where it goes. Floor beams are locked in the wall planks with a dovetail joint. Beams are laid 16 inches o.c. and are 2x8 in the larger cottages, 2x6 in the smaller. Floor boards are tongued and grooved.

Roof purlins are 4x6, roof boards 1x6 or 1x7 tongued and grooved.

The eight models listed range from a small one-room cottage for $595 to two- and three-bedroom houses with garage and breezeway for from $2,585 to $2,850.

One of the two-bedroom homes, built in the east, cost only slightly more than $5,000 when ready for occupancy. The breakdown of cost was given as: Complete precut house, $2,685; delivery, $90; labor, $392; foundation, $250; paint, $85; electricity and fixtures, $108; bath, $615; kitchen, $350; refrigerator, $229; and floor furnace, $215.

THE BOSTWICK STEEL LATH COMPANY
103 HEATON AVENUE • NILES, OHIO

PIECES are factory-cut, numbered to fit
ALADDIN CO. ADOPTS
VIKRE SASH HOLDER

J. N. Vikre Company, Inc.
3016 14th Avenue South
Minneapolis, Minnesota

Gentlemen:

During our forty-four years of manufacturing Aladdin Ready-Cut houses, we scrutinize every new development pertaining to the building industry and housing in general. After extensive research, we have adopted as standard window equipment, the Vikre sash holder, and during the past two and a half years have used tens of thousands of them and have never had one complaint.

We are very glad to be able to supply our customers with trouble-free equipment for the windows of their Aladdin home which adds to the economy when buying and building an Aladdin Ready-Cut home.

Very truly yours,

J. N. White
Asst. General Manager

"Tens of thousands of them—and never had one complaint."
That's the record of Vikre Sash Holders in the famous Aladdin Ready-Cut houses all over the nation.

Contractors, carpenters and home owners everywhere have found that Genuine Vikre Sash Holders are the only spring tension type holders to have all moving parts fully enclosed. No starting hole drilled in the sash. Designed for both new construction and modernizing old windows. Sturdy brass face plate with patented adjustable steel spring tension holds sash securely in any position. Only one holder required per sash. Once adjusted Vikre Holders require no further attention. For dependable service always install Genuine Vikre Sash Holders in your clients' windows.

For additional information write DEPT. B.

TWO SIZES

Model VSH-57
1/4" dia. for Check Rail Sash

Model VSH-20
1/8" dia. for Plain Rail Sash

Genuine
VIKRE

J. N. VIKRE CO. INC.
3016 14TH AVENUE SOUTH
MINNEAPOLIS 7, MINNESOTA

APRIL 1951

The heavy duty tool with
built-in blower......

Genuine SUPER SAW

AIR COOLED
PATS. PEND.

...an all-purpose roughing-in saw that saves more time than any other tool in your kit!

...fits any heavy-duty 1/2" drill—10 different blades saw ANY material—no starting hole needed.

...built to stand up under constant, every day Contractor or industrial use!

Cutting opening in oak flooring in less than 3 minutes—no starting hole needed!

- NO STARTING HOLE NEEDED... Simply place guide next to material and "rock" tool into an upright position.
- CUTS RIGHT THRU IMBEDDED NAILS... wood, plaster, iron pipe, sheet metal, "Transite" and most other materials—even in cramped quarters.
- FITS ANY HEAVY DUTY 1/2" or 1/4" DRILL... as easy as changing bits! Overall length only 10¾"; weight only 3 lbs. 6 ozs.
- ANTI-FRICTION REPLACEABLE BEARINGS—BUILT-IN BLOWER... Blower keeps tool comfortably cool even under continuous use—blows dust and chips away from cutting line. All friction surfaces are of "Oilite", phosphor bronze or high speed ball bearings. All wearing parts are replaceable.

Super Saws and Blades are listed on Federal Supply Schedules, Class 40 Material.

SEND THE COUPON TODAY for Complete Information and Prices

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

Gentlemen:

Please send us Bulletin 14 and name of the nearest Super Saw distributor.

Name...
Address....
City... Zone... State...
Assure your clients
Scotts
LAWN PERFECTION

Lawn Care TELLS HOW, and it's Free!
Poor lawns can plague a builder for years . . . while lawns of Scott beauty are a lasting boon to his reputation. The easy way to specify and always get outstanding lawns is to read LAWN CARE. The practical soil conditioning tips, grading, feeding and seeding procedures outlined can save you time, money and above all assure your clients outstanding lawn beauty. Send today for a digest of over 100 LAWN CARE bulletins, and Free subscription to future issues. Both are free and without obligation.

Just ask for LAWN CARE on your business stationery.

O M Scott & SONS CO 36 Spring Street, Marysville, Ohio
also Palo Alto, California

For outstanding LAWNS use SCOTTS Lawn Care PRODUCTS

Speediest
FOR SIDEWALL JOBS!

"Trouble Saver" Scaffold Brackets speed construction. Here's why they save you labor, time and materials:
Put them up and take them down faster than you can erect makeshift wooden scaffolding.

Fold compactly—light in weight.

Made of rail carbon steel—3' and 3 1/2 lengths.

Attachments convert one type to any other.
Nail, Studding and Bolt-attached types.

Corner-type bracket also available.

Conveniently obtainable through offices and distributors from coast to coast.

Write for CATALOG M
Used by thousands of builders. Write for free literature giving information on all "Trouble Saver" Scaffolding accessories.

The Steel Scaffolding Co., Inc.
856 Humboldt Street, Dept. AB • Telephone EVergreen 3-5510 • Brooklyn 22, New York

Wage-Hour Act Analysis
Published by NRLDA

A detailed analysis of the right status of retail lumber dealers under the Fair Labor Standards (Wage-Hour) Act as amended in 1949 has been prepared by the attorneys and staff of the National Retail Lumber Dealers Association.

With regard to the retail exemption, the 36-page booklet expresses these opinions:

"As a general rule lumber dealers who were exempt under the former law and administrative rulings will continue to be exempt under the new amendments.

"Dealers who did not formerly qualify for exemption may or may not be exempt, depending on the type of sales which previously prevented their exemption.

"Most dealers, therefore, will wish to review their status at the present time, both because the amendments clear up some previous uncertainties and because there are certain definite changes in the classification of sales.

"Some dealers, because of their particular methods of doing business or special labor or other local circumstances, have complied with the minimum wage and overtime provisions of the Act rather than argue the question of exemption. It is believed that such dealers will be well advised to review their status at this time. If exempt, they can, of course, continue the voluntary payment of overtime, etc., without meticulous attention to technical compliance regulations. If not exempt, however, it will be necessary to comply with all requirements of the law, including compliance with detailed and technical regulations as to time and payroll records, computation of hourly rates and overtime pay, individual employee exemptions, etc.

"Not all dealers will find it necessary to study the contents of this booklet in detail. We do recommend, however, that all dealers, in order to be currently up to date, acquaint themselves with the following:

1. The new statutory provisions of the amended law and the brief description of these provisions contained below and on page 7.

2. The Summary Check Lists on page 8 and 9.

"If twenty-five per cent or less of sales are in the 'wholesale' category, it is probable that you qualify for exemption.

"If there is some doubt as to your status, we believe you will find it worthwhile to study the more de- (Continued on page 238)
Take, for instance, the experience of E. Gartner, contractor at Lena, Ill. He recommends Rilco buildings to his customers so he can handle more jobs during the building season. He is also giving his customers greater value because of the 100% usable space, modern appearance and engineered dependability of Rilco glued laminated wood framing members.

There are Rilco arches, trusses, rafters for every type of commercial and farm building.

They are delivered precision cut and drilled. Efficient timber connectors are furnished for all joints. Rilco members cut building time and payroll cost. Make the most of your 1951 building season.

Get full information on economical Rilco construction.
Perfect Partners for better boring


And these accessories:

STANLEY No. 137 Counterbore. High quality tool steel, hardened and tempered. 3/8" cutting edge.

STANLEY No. 36 Screw Driver Bits. Forged alloy steel, oil tempered and polished. Sizes 3/32" to 1/4".

Expertly built for building experts, Stanley Boring Tools are your partners in skill... work with you, save time and effort on every job. See the complete line of Stanley Tools on display at your local dealer's.

Millionth Mengel Door

MILLIONTH DOOR produced in 1950 by Plywood Division of the Mengel Co. is turned over by Thomas Bopp (left), Plywood Division production manager, to A. L. Entwistle, Mengel vice president, and R. Fay Kulmer, Door Department sales manager. To make the million doors, the company said, it took over 176,000,000 feet of veneers, around 12,750,000 board feet of lumber, and 3,500,000 pounds of water-resistant glue.

Walter Geist Dies; Was Allis-Chalmers President

Walter Geist, president of the Al lis-Chalmers Manufacturing Co., Milwaukee, died of a heart attack January 28. He was 56.

Mr. Geist, who joined Al lis-Chalmers in 1909, had been chief executive since 1942. He was named general sales representative for the General Machinery Division in 1933 and a vice president in that division in 1939.

Wage-Hour Act...

(Continued from page 236)

tailed discussion which follows.

“Particular attention has been devoted to the exemption problems confronting the so-called borderline dealers, i.e., those who are somewhat uncertain as to their status. The discussion of these problems, including the two appendices, should be of assistance to dealers and their attorneys in determining their future course of action.”

The booklet reprints the statutory provisions of the amended act. It also contains a check list to aid dealers in classifying their sales; definitions of important terms found in the act, such as “Annual dollar volume of sales,” “Within the state,” “Retail sales,” and “Wholesale sales”; a discussion of the effect of processing or fabrication on the retail exemption and the answers to a number of miscellaneous questions and problems which arise under the act.
The tremendous popularity of Frantz Sectional-Type Overhead Garage Doors, presented less than a year ago for 8' x 7' and 9' x 7' openings, has brought the development of four additional sizes (see list below) to care for practically every residential requirement. Builders and contractors favor the Frantz Sectional Overhead Door because it offers so many appealing, new constructional features for quick installation... easy, fool-proof operation... for easier selling and greater customer satisfaction. If you are not acquainted with Frantz Sectional-Type Overhead Doors, write today for free illustrated folder; it tells you why they're a better buy!

The Boice-Crane Shaper has an accurate, one-piece spindle, strong enough for cutters to 6 1/4" diameter. (Contract with the 3" maximum of either makes with spindles under 1 1/2" diameter.) Make longer tenons.

You can cope and rabbeet at the same time and without a stub shaft. The tenon can be passed under the long swing for easier selling and greater customer satisfaction. If you are not acquainted with Frantz Sectional-Type Overhead Doors, write today for free illustrated folder; it tells you why they're a better buy!

FRANTZ MANUFACTURING CO., STERLING, ILLINOIS
APRIL 1951
Rent Tile Cutter to Increase Retail Sales

The offer of a rental tile cutter has proved responsible for a large increase of retail tile sales over a one-year testing period, according to the J.M.J. Products Co. of St. Louis, tile cutter manufacturer.

The company sponsors a tile cutter rental plan, designed to sell a customer on doing the job himself by providing simple instructions on use of the machine. Company officials said that in the recent test the cutter was rented 90 per cent of the time, providing an appreciable revenue for dealers in addition to increased sales.

The J.M.J. model FT-1 cutter is of magnesium construction and weighs 19 pounds. It cuts any type of resilient floor tile up to 12x12 inches.

Company merchandising aids for the rental plan include point of sale displays, newspaper advertising mats and rental forms.

Prefab Sales Meeting Attended by 300

More than 300 contractors, factory representatives, bankers, realtors and mortgage brokers from 16 states attended the recent general sales meeting of the Thyer Manufacturing Corp., in Toledo, Ohio.

The company more than doubled its production of factory-assembled homes in 1950 at its Toledo plant, E. E. Kurtz, vice president and general manager, said, predicting that production would be tripled in 1951 at the Collins, Miss., plant, where an expansion program is going on.

Thyer has been manufacturing Pullman Homes for five years. A southern division was recently organized, headed by Milton O. Gustafson as sales manager.

Dealer Newspaper Is Published by Hotpoint

A monthly dealer newspaper, giving information on company activities, products, economic conditions, service and other phases of the appliance business, is now being published by Hotpoint, Inc.

In announcing the dealer organ, called the Hotpoint “Headliner,” Edward R. Taylor, general sales manager, said that it is not a “puff sheet, but rather an informative newspaper that will keep retailers up to date on conditions at headquarters and in the field.”

The paper is in tabloid format, 10x14 inches, five columns wide, and will vary in size from eight to 12 pages. It will be mailed monthly to the company’s 13,000 retailers.

KENCO Utility Pump

New-amazing Kenco Submersible Electric Utility Pump always operates as long as there is electric current. Operation is completely automatic. Requires no installation time or expense. A pump every home builder and plumbing contractor should have available.

It has no equal as a sump pump! It requires no attention—no servicing. It may be entirely concealed to operate in sumps where nothing protrudes from the sump except the electric cable and the discharge line.

Operation is completely automatic with the exclusive Kenco Liquid Level Switch rated at over one hundred thousand off and on cycles. There is no float to stick, warp, corrode or leak. The Liquid Level Switch is protected against fouling by debris or silt. Manual switch control for starting pump at any water level less than that required to start pump automatically is obtained with a hand switch.

A Kenco Utility Pump, because of its compactness, can be used where it would be impossible to install conventional type pumps. Immune to power failure. When power is restored, pump with its hermetically sealed motor instantly resumes operation. Capacity: 3300 G.P.H. at discharge head of ten feet. Constructed of corrosion resistant bronze. Order Kenco Utility Pumps through your building supply dealer or plumbing contractor.

KENCO, INC. 1125 N. RIDGE ROAD LORAIN, OHIO

KENCO, INC.
1125 N. RIDGE RD., LORAIN, OHIO
Please send Catalog 51 on Kenco, Automatic, Submersible, Electric Utility Pumps.
Name & Title
Company
Kind of Business
Street
City & State
Dept. # 
NOW! Earn Better Pay This Easy Way

CARPENTRY ESTIMATING

...QUICK...EASY...ACCURATE
with this simplified guide!

You can earn higher pay when you know how to estimate. Here is everything you need to know "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:

SIMPLIFIED CARPENTRY ESTIMATING

Shows you, step by step, how to figure materials needed for (1) foundation, (2) framing, (3) exterior finish, (4) interior finish, (5) hardware, and (6) stairs. Gives definite "take-off" rules, with many helpful quick-reference tables and short-cut methods that simplify the work.

SPECIAL FEATURES: Lumber Checking List, Millwork Checking List, Materials Ordering Information, Quick-Figuring Tables for estimating concrete footings and walls, concrete piers, window frames, door and window areas, each weights, nail quantities, How to figure labor hours per unit of work. Rules for linear, area and volume measurement. Mathematical reference tables, including decimal equivalents, lumber reckoner, conversion of weights and measures, etc.

TURN TO CHAPTER 8 when you receive this book. Short Cuts you can use for quick figuring of board footage. Here are simplified ways to estimate lumber needed for floors, walls, ceilings, roof, door and window frames, inside trim for these frames, inside trim for inside doors, and drawers and cabinets. This chapter alone can be worth the entire price of the book to you!

Send No Money

EXAMINE 10 DAYS FREE

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Name ____________________________

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APRIL 1951
When you know the facts about WEIR-MEYER steel warm air heating equipment, we believe you'll see why you'd choose it for your own home. Of course, we don't know how many builders and contractors own WEIR-MEYER, but we do know that many continue to install our equipment year after year in the homes they are building. And we believe that the reason is this: WEIR-MEYER performance pleases home owners. After all, isn't that what you want?

Mixed Hardwoods Used In New Block Flooring

Factory-finished blocks of a combination of mixed hardwoods are now being produced by the E. L. Bruce Co., Memphis, Tenn. The economy flooring, designed for installation in mastic over concrete, contains pecan, ash, beech, sycamore and hackberry in standard 25/32-inch thickness.

The new flooring, called Blendwood, is manufactured with two metal splines inserted in the back and with opposing tongues and grooves on the edges. It comes in three sizes: 9x9-inch, 7 1/2x7 1/2-inch and 6 3/4x6 3/4-inch. The grade is No. 1 Common & Better.

The blocks are especially suitable, the manufacturers said, for apartment buildings, housing developments, offices, stores, schools and individually built houses with concrete slab construction.

History of timber in Weyerhaeuser Book

"Men, Mills and Timber," a 50-page book recently published by the Weyerhaeuser Timber Co., tells the story of the firm's activity in the forest industry since it was formed in 1900 and the development of the lumber industry in the Pacific Northwest.

Included are data on the company's founders, development of reforestation, evolution of logging methods, advancements in production methods, research and introduction of new products and expansion of sales and distribution facilities.

The paper used in the well-illustrated book was made of Weyerhaeuser pulp products.
"TROUBLE SAVER™ Scaffolds
Save Time and Man-Power
on light construction jobs

Even on the small jobs, "Trouble Saver" Sectional
Steel Scaffolds are profit-makers for you. Prefabri-
cated frames fit into place—quickly and securely
—to provide a strong, safe scaffold that can be
erected and dismantled in minimum time for many
types of interior or exterior work. They are
quicker and more efficient than old-fashioned
built-on-the-job wood scaffolds.

You can build your scaffold to fit the particular
needs of each job. Time-saving and extra efficiency
features include extension legs for levelling, built-in
ladders on mason frames. FOR SALE OR RENT.

Write for Bulletins PSS-15 and PSS-24 showing
how "Trouble Saver" can save you money.

Approved by Underwriters' Laboratories, Inc.

LODDERS and SCAFFOLDS for ANY PURPOSE—ANY PLACE—ANY TIME

FOR GREATER SAFETY ... EFFICIENCY ... ECONOMY

38-21 12th Street, Dept. AB, Long Island City 1, New York
See Your Classified Telephone Directory for Nearest Office

FACTORY CLOSE-OUT SALE

OF CRITICAL MATERIAL

Multi-Use POWER SAW!
BRAND NEW IN ORIGINAL CRATES

MR. BUILDER
SAVE $300.00
IMAGINE, IN THESE TIMES!

You can get an all steel completely portable,
multi-use power saw made by one
of the world's leading precision manu-
facturers. Does the work of 3 saws—all in
one, by adding abrasive blade for cut-
ting steel sheets, pipes, tubing, aluminum,
copper, TRANSITE PIPE in addition to saw-
ing lumber of any length, or width—up
to 4 inches thick. Complete with either
Briggs & Stratton, or Wisconsin 3.6 H.P.
gasoline engine. Very limited number
available at a never-to-be-repeated of-
er. Yes, Mr. Builder you actually save $300
by ordering now. Write for information.

TAKE THE SHOP TO THE JOB!

ENNIS SUPPLY CO.
334 First Street North - AT. 1281
MINNEAPOLIS 1, MINNESOTA

APRIL 1951
WHEN customers come to us with replacement problems for rotted, or broken basement windows, we always suggest replacement with Insulux Glass Block.

Make the comparison! Figure it out for yourself! Compare the cost of sash, screen, storm window and maintenance against that of a lifetime panel of maintenance-free Insulux Glass Block.

A panel of Insulux Glass Block can't rust nor rot; never needs painting. Glass block is extremely hard to break ... makes a sound, weathertight, insulating panel. And glass block lets in all the light yet blocks out sight.

* Supplies of glass block and all of the accessories needed are non-critical and immediately available in quantity. Installation is simple and quick ... requires only ordinary mason's tools.

Want more information about this use of Insulux Glass Block? Just write: Daylight Engineering Laboratory, Dept A.B. 4, Box 1035, Toledo 1, Ohio. Insulux Division, American Structural Products Company, Subsidiary of Owens-Illinois Glass Company.

INSULUX
"WALLS OF DAYLIGHT"
—by the pioneers of Daylight Engineering

- Speed Up Drilling and Cutting in Concrete and Masonry with SYNTRON DEPENDABLE ELECTRIC HAMMERS
- Write for Catalog Data SYNTRON CO. 618 Lexington, Homer City, Pa.
- SUN-SASH the lowest priced LOUVRE WINDOW on the market...
- THIS COUPON can give you the Amazing story

WHY WORRY? A Hoo-Hoo Liked the Depression

In case readers are fearful that events of the time are leading to another big depression, perhaps they are unduly concerned. Even if worse comes to worse it may not be so bad. At least, not in the opinion of the author of the following article which was published in the Hoo-Hoo Bulletin for August, 1932—a time when prosperity seemed to have taken a permanent vacation.

"I like the depression. No more prosperity for me.

"I have had more fun since the depression started than I ever had in my life. I had forgotten how to live, what it meant to have real friends, what it was like to eat common everyday food. Fact is, I was getting just a little high hat.

"Three years ago, only one man of our organization could be out of town at a time and he had to leave at the last minute and get back as soon as possible. Many times I have driven 100 miles to a banquet, sat through three hours of bunk in order to make a 5-minute speech, then driven the 100 miles back to be ready for work the next morning. Nowadays as many of our organization as are invited make those trips and we stay as long as we want to.

The whole outfit could leave the office now and it wouldn't make any difference.

"I like the depression. I have to visit my friends, to make new ones. Two years ago when I went to a neighboring town, I always stayed at a hotel. Now I go home with my friends, stay all night and enjoy home cooking. I have even spent the weekend with some boys who have been kind enough to invite me.

"Now I know what a holding company is—the boys on the inside are the company; the little fish on the outside do the holding.

"It's great to drop into a store and feel that you can spend an hour or two or three or a half day just visiting and not feel that you are wasting valuable time. I like the depression.

"I am getting acquainted with my neighbors. In the last six months I have become acquainted with folks who have been living next door to me for three years. I am following the Biblical admonition, 'Love your neighbors.'

"Three years ago, I ordered my clothes from a merchant tailor—two or three suits at a time. All my clothes were good ones. I was always dressed up. But now, I haven't bought a suit in two years. I am (Continued on page 246)
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 tiles in hotel bathrooms without losing a night's revenue. The illustration shows one of the 140 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 SPINNALE ANCHORS at John Hancock Mutual Life Insurance Co. Building, Boston, Mass. Archit., Cram and Ferguson. BUILDER, Turner Construction Co.

3. FIBERGLAS insulation, Type PF-613, 2" thick — bonded in concrete walls using MIRACLE FORGED ANCHORS at Radio City Studio 68, New York, N. Y. CONTRACTOR, William J. Goddy, Inc., New York, N. Y.


VISIT MIRACLE EXHIBIT AT ARCHITECTS SAMPLES CORP. 101 PARK AVE., NEW YORK CITY

APRIL 1951

FACTS FOR BUILDERS ABOUT "CONSTRUCTION BY ADHESION" -

MIRACLE ADHESIVES CORP.
214 E. 53 St., New York 22, N. Y.

MURPHY BATTERS ADD LIVING SPACE!
SAVE MATERIALS! LOWER COSTS!

5 rooms become 7 in four, sensational, new small-home projects!
Murphy Bed featured in all-purpose room!

The four New Jersey developments offering the Noremwood Home will total approximately 600 units. This fast-selling, FHA, VA approved house, pictured above and subject of a feature article in the November issue of THE MAGAZINE OF BUILDING, features a recess type Murphy Bed. This particular bed is one of several Murphy Models that builders from coast to coast are finding to be the answer to the required "extra" room.

The floor plan at right illustrates the ingenuity of Norwood Home designers.

Although they require a minimum of space, all Murphy Beds are built to receive standard mattresses for maximum sleeping comfort.

Send today for complete data file on all Murphy recess, pivot and roller bed models and Cabraneet Kitchen.

MURPHY DOOR BED CO., INC.
19 West 44th St., New York 18, N. Y.
Please send your free data file on Murphy Beds and Cabraneet Kitchens.

NAME
ADDRESS
CITY STATE (B-2)

MURPHY BEDS ADD LIVING SPACE!
SAVE MATERIALS! LOWER COSTS!
25 TYPES . . . OVER 150 DIFFERENT SIZES!

CHELSEA FANS

—FOR EVERY INDUSTRIAL, COMMERCIAL AND RESIDENTIAL REQUIREMENT!

Specifying Chelsea Fans for every installation is one sure way to proper ventilation. There's a Chelsea model for every requirement—industrial, commercial and residential—and each type is certified as to performance in accordance with the Standard Code of the Propeller Fan Manufacturers Assn.

CHELSEA FANS & BLOWER CO., INC.
PLAINFIELD • NEW JERSEY

JOHNSON BURNERS
really SAVE Oil

In HOMES, HOSPITALS, HOTELS, FACTORIES, STORES, PUBLIC BUILDINGS—wherever dependable automatic heat is needed!

Johnson Burns give you more usable heat from every gallon of oil that you buy. Why? Because they capture and utilize an exceptionally high percentage of the heat generated in combustion. This extra “efficiency” is the product of 48 years of oil-burner research and “know how.” It is saving off in homes, skyscrapers and industries all over the nation. It can save fuel oil and money for you. Let your Heating Engineer or your nearest Johnson Dealer show you why and how.

Chicago, Ill.

JOHNSON BURNERS CO.
960 Arlington Ave.
Oakland 8, California

501 N. Broad Street
Philadelphia 8, Pa.

Liked the Depression
(Continued from page 24)

mighty proud of my Sunday go-to-meeting clothes. When I dress up, I am dressed up and I don't mean maybe. I like the depression. A pair of shoes isn't real comfy like until they have had a third pair of half-soles and you don't really get acquainted with a suit of clothes until the misses has put a new seat in the pants.

"My wife has traded her scanties for petticoats and my shorts have been replaced by underwear—the kind that make a bulge around your shoe tops all winter. When we married she wore dresses. Three years later she was buying Frocks and still later Gowns. In 1929 she would have nothing but Creations. But thank heaven, she is back to dresses now. After all there isn't much difference—something like this: Dress $19.50; Frock $39.50; Gown $79.50; Creation $149.50.

"Up until a year ago I never took my wife on a business trip or to a convention. Three years ago I was so busy and my wife was so busy that we didn't see much of each other, consequently we sort of lost interest in each other. I never went home to lunch. About twice a week I went home to dinner—at 6:30 o'clock. I never had time to go anywhere with her. My wife belonged to all the clubs in town. She even joined the young mothers club. We didn't have any children but she was studying—and between playing bridge and going to clubs, she was never at home.

"I never really enjoyed a bath for three years. I was afraid I wasn't using the right kind of soap or that I would mess up something. Then the bathroom was a place to keep clean. Hurrah for the depression. The bathroom is now a place to get clean.

"Time after time I would start an important conference, forget my clubs and have to go back to the office.

The first time my salary was cut, he (the boss) apologized for doing it, actually made me feel like it hurt him worse than it did me. But the second time he never apologized, just said he hoped business would pick up soon so he could keep me on the payroll. I am feeling better since the depression. I take more exercise. I walk to town and a lot of folks who used to drive Cadillacs are walking with me. I like the depression.

"My digestion is better. I haven't been to see a doctor in a year. I can (Continued on page 246)
complete line of COMMERCIAL and INDUSTRIAL DOORS

MODEL 120--COMMERCIAL. Mounted on 2" track, this model includes sizes up to 192 sq. ft. and not higher than 14 ft. All Raynor commercial and industrial doors embody Raynor sturdy "three way stress" construction and are equipped with Raynor Graduated Seal.

MODEL 210--INDUSTRIAL. Mounted on 3" track, the Model 210 includes all sizes over 192 sq. ft. and a few smaller sizes where an extra heavy door is required. For added convenience, Raynor commercial and industrial doors can be equipped with chain hoist and electric operators.

SPECIAL DOORS for SPECIAL JOBS

MODEL T-17--an outstandingly designed twin torsion spring door for service garages, warehouses, factories and other commercial buildings.

MODEL 6--a fine Hy Lift door for service stations and lubritoriums where ceiling height permits the installation of this special door.

MODEL VL-22--designed for installations where horizontal tracks are not desired and high ceiling permits the installation. Twin torsion springs are equipped with special safety locking device.

The Raynor complete line offers a wood sectional overhead door for every job.

Raynor MFG. CO.
River St.—Dixon, Ill.

APRIL 1951

This fine soft wood is one of the Associated Woods produced by member mills of the Western Pine Association. It is fine-textured, and although light in weight, is very strong for its weight. Carpenters like it because it is easy to work, nails without splitting and holds nails and glue firmly.

Engelmann Spruce is suitable for many building uses such as sheathing, subflooring, framing, ceiling and siding. It works up satisfactorily for interior finishing, mill work, industrial boxes and crates. The tight knotted boards are often used for knotty paneling particularly where a wood of light color and rather inconspicuous knots is desired.

For more information about Engelmann Spruce, send for free illustrated Facts Folder and Grade Use Guide. Address WESTERN PINE ASSOCIATION Yeon Building • Portland 4, Oregon

THESE ARE THE ASSOCIATED WOODS

Idaho White Pine, Ponderosa Pine, Sugar Pine

Larch, Douglas Fir, White Fir, Engelmann Spruce, Incense Cedar, Red Cedar, Lodgepole Pine.

THE WESTERN PINE REGION

WELL MANUFACTURED
THOROUGHLY SEASONED
CAREFULLY GRADED
**The 2 best “HEADLINE” words in this - or any other - ad:**

NEW and EASY

... and they describe exactly the MOR-SUN COUNTER FLOW Furnaces...

NEW:

- newly designed for PERIMETER and SPI-DER design radiant warm air heating.

EASY:

- designed for easy installation in basementless slab houses.

**FREE!**

Write for the story of MOR-SUN Counter Flow heating systems for basementless slab houses.

"Sells on Sight"

**MOR-SUN FURNACE DIVISION MORRISON STEEL PRODUCTS, INC.**

649 AMHERST ST. • BUFFALO 7, N. Y.

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**Liked the Depression**

(Continued from page 246)

eat anything I want to. I am getting real, honest-to-goodness food. Three years ago, we had filet mignon once a week, now we have round steak and flour gravy. Then, we had roast breast of a guinea hen, now we are glad to get sow bosom with the buttons on it. I like the depression. My salary has been cut to where I can't afford to buy lettuce and spinach and Parsley and we can't afford to have sandwiches and frozen desserts and all that foolishness which has killed more good men than the World War.

"I like the depression. Three years ago I never had time to go to church. I played golf all-day Sunday and besides I was so darned smart that there wasn't a preacher in West Texas who could tell me anything. Now, I am going to church regularly, never miss a Sunday. And if this depression keeps on, I will be going to prayer meeting before long. I like the depression."

**Celotex Announces New Merchandising Service**

'A new merchandising service for lumber and building material dealers, consisting of quarterly “packages” of ideas, plans and programs, has been initiated by the Celotex Corp., Gates Ferguson, advertising director, has reported.

Every idea or plan in the service, Ferguson said, is completely organized and described in full detail with suggestions for getting quick and effective action. He listed the following among the aims of the merchandising aids:

1. To develop a more enthusiastic, more efficient, more alert business organization and to cut costs and make extra profits through teamwork.
2. To develop every employee into a selling force for his business.
3. To get additional promotional action on all the timely and available merchandise carried.

Ferguson also emphasized that, though the service is made available by Celotex, it is not a Celotex promotion, but designed to help the dealer promote all the merchandise he handles. Subscription is limited to building material dealers handling Celotex products and may be ordered either through the local Celotex sales representative or by writing directly to the Celotex Corp., 120 S. LaSalle St., Chicago 3, Ill.

**IN-A-SLIDE THE ORIGINAL ALL-STEEL EASY OUT BASEMENT WINDOW LEADS IN QUICK SALES AND PROFITS**

This can mean only one thing: that, in the splendid All-Steel In-A-Slide, New Monarch's idea of producing the finest and best basement window on the market, in any price bracket, has been fully realized.

Alert dealers everywhere are taking advantage of this popularity among architects and contractors. They are stocking up on In-A-Slides, Mullions, Screens and Storm Sash so as to be ready for their full share of Really Profitable Basement Window business.

**MULLIONS**

With Monarch Mullions, In-A-Slides may be grouped into units of from 2 to 5 to a section, making sturdy, economical Utility-type windows.

**SOLD BY ALL PROGRESSIVE DEALERS**

When you think of Basement Windows think of NEW MONARCH MACHINE & STAMPING COMPANY 151 W. NINTH STREET DES MOINES 5 IOWA

---

**IN-A-SLIDE POPULARITY DOUBLED PRODUCTION IN 1950...**

Read how to build with Brick and Clay Products May, American Builder
when you install a

Bilco

TRADE MARK

Copper-Steel CELLADOOR

Modern design, finest materials, top craftsmanship make the Celladoor vastly superior to ordinary, old-fashioned wooden basement doors. There's simply no finer door made . . . at any price!

SAVES YOU TIME
LABOR, MONEY!

You can install the Celladoor in as little as ten minutes . . . as pleased builders everywhere can testify. And there's nothing to go wrong. No breakdowns, repairs, or maintenance for your customers.

SATISFIES YOUR CUSTOMERS
KEEPS THEM SATISFIED

The Celladoor opens the way to new living pleasures! And it keeps giving pleasure for a lifetime. It's super-safe, fool-proof, weather-tight, fire-proof, and flattering every home. Bilco performance means happy customers . . . better business for you.

Sink-Lok Frames

The Chromedge Sink-Lok Frame clamps coverings in place to stay! It seals out moisture . . . hugs the sink with a permanent grip. Coverings can't work loose or curl up. Sink-Lok is easier to install too. No need for close scribing, cutting or fitting of the materials. The frame overlaps edges of the covering a full quarter-inch. And you just cut a straight-walled opening for the sink. No mortising or rabbeting—no special tools needed.

The frame anchors in place from underneath the sink top. It supports the sink itself in addition to sealing the joint between the covering and the sink. You finish the installation by tightening the bolts on the Sink-Lok Frame lugs. No bolt holes to be drilled. No screws to fasten into the counter top.

On new installations or cabinet top repairs, save time and make more profit with easy-to-install Sink-Lok Frames! Write for complete information.

Sink-Lok Frames are available for flat rim sinks of any size, with either round or square corners. No. A-725 Sink-Lok Frame fits ⅜" to ⅝" plywood tops covered with material up to ⅜" thick. No. B-725 Sink-Lok Frame is for ⅝" to 1" plywood counter tops, covered with any material up to ¾" thick. Sink-Lok Frame No. C-726 is available for vitreous china sinks.

The B & T Metals Co.
Columbus 16, Ohio

APRIL 1951
and your answer to Ray Foley were splendid pieces of constructive analysis and writing. You are perfectly correct when you state that there are millions of other Americans who are thinking along the same trend of thought which you hold with regard to the actions which are being taken by the Administration. They have built up a greater hysteria and have generated more alarms in Washington than is felt in any part of Europe where there might be some reason for concern. I expect we should realize that this and the prior administration, over a period of twenty years, have practiced with great success the creation of crises to maintain their grip on the lives of the American people. Unless more Americans take action to break that grip we, and they, and our children after us will be strangled to death by these bureaucratic administrators.

Association Executive
Louisiana

Sir: This will probably be but one of many thousand letters you will get congratulating you on your courage and forthrightness in your rebuttal of Ray Foley's letter in the February issue. Thank God we still have some people in the country who are not afraid to speak up.

Manuel
Ohio

Sir: I have just finished reading your reply to Foley—it was a "dilly."

Retail Lumber Dealer
Washington

Sir: I have read your editorial "The Basic Problem," HHFA Administrator Foley's comments thereon and your reply to Mr. Foley. You hit the nail on the head in the editorial and you drove it home in your reply. Keep up the good work.

Builder's Service Organization
Colorado

Sir: Permit me to congratulate you on your most beautifully written document to Mr. Foley. The position you have so ably expressed in words is certainly the position of every right-thinking American citizen. Again, my heartiest congratulations.

Manuel
Illinois

Sir: I have the February issue of the American Builder, and you are certainly to be commended for your straight-from-the-shoulder reply to Mr. Foley of the HHFA. I am just

(Continued on page 252)
PRACTICAL IDEAS for BUILT-INS with VERSATILE WELDWOOD® PLYWOOD

Built-in Bookcases add dignity and charm. Install them with or without cabinets, as needed.

A Television Corner provides an attractive setting for this coming "must" in home furnishing.

Corner Cupboards go in quickly and easily. And, they combine charm with convenient storage space.

You'll combine utility and modest cost with strikingly different decorative beauty when you use even a little Weldwood in the homes you build. And, you'll find prospects quick to appreciate the unusual "plusses" you've added with built-ins like these, or dozens of others that you can build easily and economically. Ask your lumber dealer to show you samples of Weldwood Plywood in ¾" thickness, especially useful for the construction of attractive built-ins of all kinds.

BUILT-IN RADIATOR ENCLOSURE AND CABINET COMBINATION

This attractive built-in unit is easily made and combines beauty and utility to provide extra sales appeal.

WELDWOOD Plywood
Manufactured and distributed by
UNITED STATES PLYWOOD CORPORATION New York 18, N.Y.
and U.S.-MENGEL PLYWOODS, INC., Louisville 1, Ky.
Branches in Principal Cities · Distributing Units in Chief Trading Areas · Dealers Everywhere
BETTER CONCRETE SLABS COST LESS with SISALKRAFT LAID OVER SUBFILL

Big building, above; small home, below; SISALKRAFT covering subfill of both

FOR BUILDINGS OF ALL SIZES

Whatever the job . . . from humblest homes to the biggest buildings . . . SISALKRAFT helps you build better for less. For instance, by laying SISALKRAFT over subfill before you pour any concrete slabs (at ground level or in excavations), you'll get denser, harder, drier floors, at lower cost, because . . .

1 Water and cement can't seep through SISALKRAFT into the subfill . . . the specified concrete-mix proportions and desired slab-characteristics are thus maintained.

2 SISALKRAFT blocks penetrations of concrete into voids of subfill . . . no concrete "fingers" can form to draw up ground-moisture into slab by capillary attraction.

3 You save concrete and labor . . . get better slabs at lower cost.

In many other ways, too, SISALKRAFT and SISALATION (Reflective Insulation) help you to build better for less.

Write Dept. AB-4 for free samples and data
Janitrol WINTER AIR CONDITIONERS
Six sizes from 60,000 to 180,000 Btu/hr. ratings comprise the complete Janitrol line. Most popular sizes are completely factory assembled. All models are 26” in depth and 60” high, dimensions vary in width only for the six different capacities. Features include provision for constant air circulation, cast iron heat exchangers, ribbon type burners, large capacity blowers and replaceable air filters.

Janitrol GRAVITY FURNACES
Three models, a 75,000, 100,000 and 125,000 Btu/hr. size are smartly modern in appearance. Designed especially for easy and quick assembly, they meet the need for low cost installation and completely automatic, quiet operation. Janitrol Gas-Fired Gravity Furnaces are being widely used in large multiple housing projects, apartments as well as in single homes.

Janitrol BOILERS...HOT WATER, STEAM
Twenty-one sizes of Janitrol cast-iron boilers with certified A.G.A. ratings of 170 to 2700 square feet of steam and 270 to 4320 square feet of water, make up the complete line for any requirement. Operating controls are all enclosed enhancing the streamlined, attractive appearance of these modern, compact designed gas-fired boilers.

Janitrol TRIPLE SERVICE STEEL BOILERS
A single compact unit provides mechanically circulated hot water for comfort heating (panel radiant heating or convector) as well as high temperature water for automatic laundry and dishwasher and a tempered water for lavatory, tub and shower. Three sizes, of units with input ratings of 100,000 1,500,000 and 210,000 Btu/hr., are available in either gas or oil fired models. Single installation requires a minimum use of floor space.

Janitrol UNIT HEATERS
For commercial and industrial buildings, Janitrol Gas-Fired Unit Heaters offer many advantages. Because they are self-contained heating plants, they can be suspended overhead quickly at minimum installation expense. Automatic operation provides fast heat exactly when and where it is needed. The complete Janitrol line also includes heavy duty floor models for heating large areas. Janitrol Unit Heaters are available in 30 sizes with input ratings ranging from 50,000 to 1,500,000 Btu/hr. As with other Janitrol equipment, these unit heaters are equipped for any type of gas including LP.

The complete Janitrol line also includes Floor Furnaces, and Conversion Burners. See Sweets Catalog for more complete specifications.
THESE ARE THE PAY-OFF SPOTS

Spot Sash Cord is highly resistant to wear... it's solid braided cotton... extra strong, extra smooth for easy, noiseless operation.

Minimum of stretch insures perfect and lasting balance without adjustments. Spot is firm yet at the same time flexible... knots easily for quick installation.

Look for these Colored Spots, our registered trade mark... your guarantee of the best. When customers want to replace old sash cord, recommend the best... recommend strong, long-lasting Spot Cord.

Specify and use

SPOT SASH CORD
Samson
Cordage Works
Boston 10, Massachusetts

Letters...

(Continued from page 252)
the end that they can take over and operate any and all types of business under socialized principles.

Savings & Loan Assn, Executive Pennsylvania

Sir: The writer is a property owner (motor court) and happens to work part time in a builder's office. I read the editorial on "Regulation X" and have just read Foley's letter and your reply in February American Builder.
It is a pitiful thing that more representatives of business don't lay it right on the line the way you did. And also a pity that more people don't read it. I am clipping and sending it to our Congressman who is a wishy-washy Republican.

California

Sir: You're a fighting man, and obviously a potent one. I thought your letter to Mr. Foley in the February issue was excellent. I only wish that parts of it could be repeated and repeated across the country.

Manufacturing Executive Minnesota

Sir: I read your editorial re Regulation X and fully agreed with you. I wish we had more such editorials and I'm approving your answer to Mr. Foley. It appears he felt guilty.

Builder Illinois

Sir: It is my belief that Mr. Foley erected a straw man merely for the sake of knocking him down. I liked your editorial very much indeed. In "my book" I cannot find any mandate from the Almighty for the United States to constitute itself as the policeman for the entire world. I fully agree with your suggestion that the best service we can render to the world and to humanity is to demonstrate that under our economic system more wealth is produced and that it is more widely distributed than under any other system yet devised. Our foreign policy for the past seventeen years has been a stench in the nostrils of thinking men. Indeed, it is not too much to say that we have had no foreign policy. We have manufactured one crisis after another for political purposes. I hope you will continue your hard-hitting editorials.

Attorney New York

SIR: Mr. Foley's letter and your reply published on pages 102 and 103 of the February American Builder
(Continued on page 255)
Letters...

(Continued from page 254)

have been read by me with much interest. Like you I was amazed at the tone of Mr. Foley's letter. I have heard his name mentioned many times in different meetings of our industry and I do not remember ever hearing "anything but the highest regard and respect expressed for your personal and official integrity and ability," to repeat the words used in the second paragraph of your reply. I saw nothing in your editorial to justify such an attack. Like many others, I do not understand why we are at war in Korea without a declaration of war. Also I do not understand the necessity for some of the controls already imposed while at the same time inflation in the form of deficit government financing, increased wages and prices have not been checked. I am glad you took the time and trouble to answer Mr. Foley in detail. I do not know of anybody better equipped or more able to do it.

Retail Lumber Dealer
West Virginia

Sir: I read with consuming interest copies of Raymond Foley's letter addressed to you December 18th and your reply of January 8th as presented in the February issue of American Builder. It just did my heart good to read what you said and how you expressed yourself in reply to Mr. Foley. I only wish that these thoughts could be spread more widely and deeply into the minds of a greater number of readers. You are contributing excellent work for our entire building industry, and believe me your efforts are genuinely appreciated by all who know you.

Retail Lumber Dealer
Virginia

Condensation Problem

Sirs: In the December issue of American Builder, page 39, a question of condensation in a shed roof is raised by Elmer Ogborn of Salina, Kas., and a corrective measure is suggested. We do not believe that the method suggested will correct the condition described, and if followed it may cause unnecessary expense and additional discouragement to the owner. The causes of condensation in walls and ceilings are pretty well understood; the ready vapor permeability of unprotected insulating materials (however well installed) and the practice of placing a moisture barrier on the warm side of the insulation are accepted by modern (Continued on page 256)
NIXALITE is a precision engineered corrosion-proof stainless steel product with needle sharp prongs extending upward and outward at varying angles in a semi-circle welded to a malleable base bar. It is held in position with rust-proof stainless steel clips attached to corrosion resistant fasteners embedded in the material to which NIXALITE is applied.

NIXALITE is 3½" high and 4½" wide. Clips and fasteners furnished for any type construction.

Letters...
(Continued from page 255)

Pigeons, starlings, sparrows and other birds will not land nor roost on the building when you apply NIXALITE

GUARANTEED 100% EFFICIENCY
No Repairs—No Upkeep—No Replacement
Lasts Indefinitely—Human—Removable
Easy to Apply—Economical—Inconspicuous

For further information write
Nixalite Company of America
115-119 W. 3rd St. Davenport, Iowa U.S.A.
Letters...
(Continued from page 256)

Sirs: I have your letter of January 17th and I have read it with interest, including your controversy with Mr. Foley. I agree with you that the tremendous increase in government mortgage insurance and an unlimited authorization in direct spending for war housing is an abuse of the war emergency. It seems to me clear that the power of the government to build houses ought to be limited to real government projects such as military camps. I do not like the provisions of the bill which practically duplicate the provisions of the Lanham Act in effect during the World War. I would favor some additional mortgage insurance in order that there may be an inducement to build houses wherever there may be new plants. My own opinion is that there will be nothing like the number of plants built in out-of-the-way places, which required so much construction during World War II.

I do not quite agree with you as to the lack of danger of inflation. It seems to me clear that free government credit has undoubtedly created a very large amount of inflation in the housing field. Housing credit has been so very easy that billions of dollars have been spent before people had the money to spend. I have not examined the exact provisions of Regulation X, but I am afraid that I agree with the Federal Reserve Board and the Housing Administration that a very considerable curtailment of credit is essential in the housing industry if we are going to avoid further general inflation. I think this is the opinion of the best economists, both right wing and left wing.

Robert A. Taft
United States Senate
Washington, D.C.

Sirs: I have your letter and thank you for the same. I appreciate getting your views and they are very helpful to us in mapping out our course. Your letter is a sign the people of the country are being aroused, and if they are we can prevent state socialism from being permanently fastened upon us. This great fight is now pending and it is only through an aroused public we can win it. You can rest assured knowing the danger I shall do everything within my power to sustain the American life that has brought us so many blessings in the past.

Joseph W. Martin, Jr.,
House of Representatives
Washington, D.C.
“With our Hydrocrane and four men we can place as many Flexicore slabs in eight hours as we used to in 12 hours with five men and an A-frame,” says R. L. Hubler, Price Brothers Contractors, Dayton, Ohio. “During normal operation the crane sets a slab every minute and a half. Why, on one job we erected 7,000 sq. ft. of pre-cast in eight hours.

“Another thing, the Hydrocrane is ready to work in a couple of minutes — the old A-frame took a lot of time just to set up. On our operation this hydraulic crane is a real time saver... has paid for itself many times over.”

Two sizes — 2-ton, 1/4 yd.; 3-ton, 3/8 yd. Available with clamshell, crane hook, 3-tine and multi-tine grapple, trash bucket and magnet.

**BUCYRUS-ERIE HYDROCRANE DIVISION**

**AMERICAN BUILDER**
right, it will reflect back on us. Suppose a man buys knotty pine for his basement recreation room. You know perfectly well that his neighbors will come in to see what's going on. We could sell him the finest knotty pine available, but if it isn't finished properly, it will look like the devil. His neighbors ask, 'Where did you get it?' He says, 'Johnson Cashway.' The neighbors get a bad impression, and the owner is disgusted himself. But if we tell him exactly how to put in a good job, everyone who sees it is impressed, the owner is happy, and we make him a salesman for us."

Asked for specific details of his merchandising program, Johnson said that in the beginning he used intensive direct mail and newspaper advertising. Each week, he put on "specials," just as department stores do. These leaders covered the entire line, taking one item one week, another the next. Extreme care was used in choosing only those that were seasonal. Once, for a leader, Johnson bought an entire carload of window glass, something that had never been done before by any retailer in Nebraska, and disposed of it quickly as a "special."

"We had no salesmen to go out and sell our merchandise," Johnson continued. "We sold it by bringing people in to the yard. Mailings were aimed at the rural box-holder. We never had a mailing list: we kroadeast our circulars. If a community had 150 rural box-holders, we mailed 150 pieces of literature. In small towns, we sent out boys with hand bills for door-to-door distribution. We put in a wallpaper stock to bring in women customers.

"We had a regular schedule of newspaper advertising that carried the same items featured in the hand bills. Lots of times they were exact copies of each other. Newspaper ads ran anywhere from 5 inches to a full page, depending on what we were trying to do. We chose county papers that were active, and ran specials in them every week through the year. In the Hastings newspaper, we opened with a full page ad, and thereafter ran an ad twice a week. Our ads do direct selling for some piece of merchandise at a stated price."

JOHNSON CASHWAY'S industrial and contractor store, in Omaha, Neb.

It's cooler outside at night. All day long a home absorbs heat from the summer sun. At night when outside temperatures have fallen to 75°, for example, the dead hot air in your attic may remain as high as 110°. This keeps the rooms below at an unbearable temperature of up to 95° or more.

Attic fan pulls the cool air inside.
A Hunter Attic Fan pulls the cool fresh outside air into the house, driving out the oven-like heat. In a few minutes after the fan is started, room temperatures drop 10° to 20° lower. An automatic time switch can be used to shut off the fan while occupants sleep.

NEW HUNTER PACKAGE FAN IS INEXPENSIVE AND EASY TO INSTALL IN OLD OR NEW HOMES

A Hunter Package Fan is the most practical and least expensive method of keeping a home comfortable on hot summer nights. This compact unit is easily installed in any new or old home. Furnished complete with fan, motor, suction box and ceiling shutter—with a choice of four sizes, to fit any home.

Cool comfort for a few cents a night.
This efficient attic fan is quiet and powerful, requires little or no maintenance. It costs only a few cents a night to operate and will last for many, many years. Backed by Hunter, exclusive fan makers since 1886. Mail coupon below for complete information on comfort cooling with Hunter Fans.
ANCHOR WINDOW — Pella Windows are completely assembled when they arrive. Just set the unit in the opening and anchor it firmly at the head and sill. Flange screws are furnished for this purpose.

FOR QUICKER, EASIER INSTALLATION USE

Pella CASEMENT WINDOWS

Pella Casement Windows cut installation costs to a minimum because all Pella Casement Windows are completely assembled and pre-fitted at the factory. Pella Casements, in modular dimensions, fit right into specified rough openings. All Pella Casement Windows are equipped with inconspicuous, convenient Rollscreens that roll up and down like window shades. More Thermopane standard sizes are available for Pella Casements than for any other wood casement window. Save time and labor costs with Pella Casement Windows.

ATTACH OUTSIDE FINS — Next, attach metal fins at jambbs. The grooved edge of the fin fits over the edge of the steel frame. The flat surface of the fin is nailed to the sheathing. Exterior trim can now be applied.

ATTACH INSIDE FINS — To complete the installation, apply the inside metal fins at head, sill and jambs. Fins fit under the lip of the steel frame and are nailed to the strudding. This insures a tight weatherseal all the way around the window.

Write Today for the Pella Installation Instructions and full size Casement Details.

ROLSCREEN COMPANY, Dept. C-28, Pella, Iowa

Without obligation, send me "PELLA CASEMENT Installation Instructions in Full Size Casement Details No. 1050M."

NAME

FIRM

ADDRESS

CITY STATE

PELLA CASEMENTS * ROLSCREENS * VENETIAN BLINDS

Sell Your Unseller

By R. V. Winters

President, National Plan Service, Inc.
Chicago, Ill.

The other day I was having lunch with a salesman of one of the larger concerns in the building materials field, and some of his remarks have remained in my memory. I think it worth while passing on to you some of the things he said. His company has recently come out with a new line, which they advertised well in national and trade publications, and he had told me he had been making very satisfactory sales. This prompted me to ask:

“What do you believe to be the greatest handicap in creating an increasing demand and acceptance of your product?”

His reply surprised me. “The Unseller! You’ll find him in almost every retail lumber yard. He really is a problem.”

“You mean the inefficient, uninformed and indifferent man at the front counter?”

“Unfortunately, the answer to that one is ‘no.’ The unseller is frequently a good man, eager to make a sale, ambitious and anxious to make good. He has the interest of his company at heart, and has the makings of a top man.”

“Why then is he placed in your classification of an unseller?”

“Because he has no opportunity of learning anything except across the counter up front. The boss likes and respects him, but has no time to spend with him. Business is good—everybody is busy. The salesman comes along and sells the boss or buyer an order—the goods are received—go into stock—and about all the unseller knows is that another shipment of ‘some new gadget’ is cluttering up the warehouse or yard.”

“I don’t quite follow you,” I said. “You mean that the unseller knows that this gadget is in stock, and does not try to sell it?”

“No. Because he has no opportunity of learning anything except across the counter up front. The unseller knows is that another shipment of ‘some new gadget’ is cluttering up the warehouse or yard.”

“I don’t quite follow you,” I said. “You mean that the unseller knows that this gadget is in stock, and does not try to sell it?”

“It’s even more than that. Remember that for some time he has been selling similar material and has become familiar with the old line. Comes in the new and better line, and about all the unseller knows is that another shipment of ‘some new gadget’ is cluttering up the warehouse or yard.”

“I don’t quite follow you,” I said. “You mean that the unseller knows that this gadget is in stock, and does not try to sell it?”

“It’s even more than that. Remember that for some time he has been selling similar material and has become familiar with the old line. Comes in the new and better line, he unconsciously resents it, as he knows nothing about it. So frequently when the customer needs such material, or even when the new material is asked
for, the unseller voices a doubt as to the good qualities of the new line, and tells of his experience with customers who have been well pleased with the old. He actually unsells the customer on the better line, and is proud of his salesmanship.

“Well, it looks to me like the boss should fire the unseller,” I commented.

“No,” replied my salesman friend—“It looks to me like the unseller should fire the boss.”

Naturally I accepted this as a piece of humor, and laughed accordingly.

“No, that's no joke,” insisted the salesman. “That unseller has just got to be sold. That's my job—the job of the salesman, but the boss interferes. When I make an initial sale, I always ask if I can discuss the line with the staff who do the selling. The boss nearly always these days insists they are too busy for me to take up his men's time. I ask him to let me meet with them after closing time, but he says they are all too tired to come back. He admits I have sold him, and feels that I should be satisfied without bothering him further. So the boss, who seldom sells anything himself, is sold on my line, but his men know nothing about what the boss has bought for them to sell over the counter. So the unseller remains an unseller, and my line frequently sleeps on his shelves.”

“What's your solution of this one?” I asked.

My friend shook his head. “I don't know, unless we can drive home the idea of having the boss sell his unsellers. It would be money in his pocket if he did. The unsellers are good salesmen, but they are not kept abreast of the new materials their boss is buying. Of course, the training schools held at the colleges over the country have helped hundreds, but there are still thousands of unsellers who have not been able to attend these schools, and who could be made into money-making salesmen if their bosses would only insist on the traveling salesman selling the unsellers after they have sold the boss.”

Since this conversation with my friend, I have been thinking a good deal of what he had to say. I applied it to my own business. How have the unsellers influenced the use of the lumber dealers merchandising services I represent?

A couple of years ago we designed a very attractive and practical home known as the “Certigrade National Home.” The Red Cedar Shingle Bureau of Seattle made it the feature of a national advertising campaign. This home appealed to their organi-

(Continued on page 262)
3-Speed Milwaukee ½" Drill Cuts Costs for Contractors

Exclusive Milwaukee HOLE-SHOOTER combines straight and right-angle drilling... wonder-tool for close quarters

Used by Building Contractors everywhere, this Milwaukee ½" HOLE-SHOOTER... America's only 3-speed Right-Angle drill... has demonstrated its unmatched time-saving performance on thousands of jobs. Most powerful drill built, of its size and 9 lb. weight. Ball and roller-bearing equipped for extra-long service life.

You'll be amazed at its versatility — unit-built for quick change to suitable speeds for drilling in wood, metal, masonry, concrete, tile. Uses wood bits up to 3"... also carbide-tipped drills.

For straight drilling, S-412 ½" HOLE-SHOOTER (above) has a chuck speed of 450 R.P.M. With the 2-speed "Right-Angle Drive" attachment, speeds are 300 R.P.M. or 675 R.P.M.

Head swivels full 360°. Locks in any position.
S-412 Drill with "2-speed Right-Angle Drive"... $69.00

Other bits available also — See assortment at left. We can supply you with any size wood-boring bits up to 3". Write us.

Complete S-412 Tri-Speed Kit Contains
1 — S-412 ½" HOLE-SHOOTER, Jacobs geared chuck.
2 — 2-speed “Right-Angle Drive” attachment.
3 — 3 special bits — ½", 1½", 2½".
4 — Special wrench. *Pat. Pending

Complete S-412 Kit... $87.00

3 Flute specially machined on shanks of these bits to fit Jacobs 3-jaw chuck.

Sell Your Unseller
(Continued from page 261)

zation as its walls and roof were of cedar shingles. They also realized that by showing a complete, attractive home, thereby stimulating home ownership or modernization, they would automatically create an enlarged market for their product—shingles.

In all advertising the reader was told that blueprint plans could be secured through any retail lumber dealer, at a nominal price—the dealer to get the plans from our organization. That this campaign was a success is attested by the fact that more than 10,000 homes of this design have been built. The Certigrade National Home can be seen in nearly every community in the country, and I know that many more thousands of this home would have been built if it had not been for the unsellers.

Our files are filled with letters from people who have asked their dealers about plans for the Certigrade National Home, and who were told by the unsellers that they did not know of this campaign. Prospective home builders have written us that they have called on such and such a dealer and were told that the yard had never heard of National Plan Service, when believe it or not, that same such and such dealer had received full information on the Certigrade national campaign, and was even a regular distributor of our calendar and plan book service. Good customers of ours, with unsellers muffing the ball because the boss was too busy to keep them informed of what was doing up top.

Yes, I think my friend has the answer—Sell Your Unsellers! When you give an order to the salesman who calls on you, or you receive information concerning a new service, ask yourself the question—"Does my staff know all that is necessary to know about this material or these services?" If not, have the salesman educate your salesmen and unsellers so they may more intelligently and efficiently serve you and your customers. More group meetings in the evenings would help you and the industry. I suggest that we all join together to Sell Your Unseller.

From our Book Dept.

Stair Builder's Guide, by Morris Williams. $3.00 — A treatise on the construction of straight flight, platform, cylindrical and elliptical stairs, explaining both theory and practice. Profusely illustrated.
Pour concrete piers and columns faster, cheaper, better with Sonotubes.

Sonotubes laminated fibre forms for one-time use: 3" to 24" I.D. up to 25' long.

They require minimum bracing and provide perfect finished columns.

Easy to set up, align and brace—Sonotubes provide a fast, cheap method of forming concrete piers and columns. They are for one-time use and can be left on or easily stripped off. Reinforcing beams or braces can be set in before pouring or placed in position after pouring.

Sonotubes save hours of costly labor—eliminate expensive lumber and permanent forms.

Write for complete information and prices.

Porter-Cable Machine Co.
7004-1 N. Salina St.
Syracuse 8, N.Y.

April 1951
THE NEW, FREE BOOKLET EVERY HOME BUILDER WILL WANT

-helps you build homes for LESS by saving on figuring costs the Printing Calculator way!

Hundreds of builders have sent for their free copies—GET YOURS NOW!

When you estimate a job, do you laboriously cover sheets of paper with figures—figures that have to be checked...re-checked before you can be sure you’re right?

Well, sir, all that’s a thing of the past, as you’ll see from Remington Rand’s new publication “Blueprint for Figure-Fact Efficiency.” It’s a concise, graphic presentation of how to streamline your Estimating, Payroll work, Cost checking and many other phases of your business where minutes spent on obsolete figuring methods are dollars down the drain.

You’ll discover how the famous Printing Calculator, with its faster 10 key keyboard and its automatic division, direct multiplication...lightning-quick addition and subtraction...its constant visual check by Printed Proof on the Tape—eliminates figure drudgery...boosts your paper-work efficiency and cuts costs way down. Send the coupon today for your FREE copy.

Remington Rand
PRINTING CALCULATOR

The ONLY calculating machine that PROVES as it FIGURES

Remington Rand, Business Machines & Supplies Div., Room 2047, 315 Fourth Avenue, New York 10.

☐ Please send me a FREE copy of “Blueprint for Figure-Fact Efficiency”—the booklet that shows how to CUT COSTS the Printing Calculator way.

Name __________________________
Company _______________________
Address _________________________
City __________ Zone ______ State ______

An Open Letter

University Head’s Plan for Drafting Youths, 18, Scored as Socialistic

Denver, Colorado
February 8, 1951

Chancellor Albert C. Jacobs
Denver University
Denver, Colorado

Dear Chancellor Jacobs:

Has Denver University’s Chancellor capitulated to the “Fair Deal” planners? His plan for conscription of 18-year-olds in view of his inspired inaugural address of 14 months ago would indicate that he has.

In his report to the faculty members, Mr. Jacobs says all 18-year-olds should be:

1. Placed in military service.
2. Be given training in higher education or in technical duties, or
3. Used for other services where they best can serve the country.

The Chancellor declared there would no longer be any 4-Fs. Some, under the Jacobs’ plan would be drafted into the universities. These are the intellectuals. Others would go to trade and technical schools. Presumably all would receive pay and tuition fees out of tax money.

Those not qualified to continue education, and who in the testing, are found peculiarly adapted for military service, would immediately be given military training. These are the modern “Uriahs.” They are the ones to be exposed to front line fire.

No one escapes conscription under the plan—the residue, after the intellectuals, the technicians, and the fighters have been screened out, the common clay are compelled to work for the government at any job, anywhere the government chooses to use them. This is not exactly free enterprise!

“Under the Jacobs’ conscription plan college and university testing services would be used to help Selective Service make the survey.” The professors would determine who was intelligent and who not. One wonders how many Edisons and Carnegies would be sent to the front under such a scheme of selection and conscription.

“Freedom of judgement,” says Mr. Jacobs, “must not be left to the individual who, as a patriotic American, would be led in most cases to choose the course of taking up arms—in every war, America has lost numbers of young men whom the nation should have had as civilian leaders when the crisis was past.”

Since when did a crisis pass in the United States? We have had one crisis for the last nearly twenty years. First under the “new deal” and now under the “fair deal.” Now we are on notice
of a continuing crisis in the years to come!
Why should anyone who wants to fight at the front be restrained from doing it on intellectual grounds, and another, who doesn't want to fight, be drafted to do his fighting for him? Which individual shows the most intelligence—the one who hankers to be shot at or the one who would rather live? That of course would be a matter for university professors to decide under the Jacobs' proposed plan!
In his inaugural address Chancellor Jacobs expressed one central thought, partially expressed in these challenging excerpts from his speech:
"Denver University stands at the crossroads of opportunity and responsibility—the independent school as the rugged pioneer on these frontiers.
"By its very divorcement from government as well as by its inherent purpose, it is an institution best qualified to preserve our sphere of liberty from incessant government encroachment.
"At a strategic point in the United States, and certainly in Denver is an important one, independent universities, free from political affiliations, must serve as testing laboratories, as guiding beacons in search for truth."
These words descended like refreshing rain on the parched desert of bureaucracy and governmental encroachment on private business and the sacred rights of the individual.
Denver University expanded its facilities to accommodate veterans of World War II, trainees of the government. If freedom of choice and action is preserved to the individual the University is greatly over-expanded. An economic crisis confronts the University unless a generous public comes to its support, as well it should.
Under the Jacobs' conscription plan the economic problem of the Denver University would be solved temporarily at least, it could be crowded to the rafters with conscripted students. Another big university expansion program may well be expected and a continuing crisis needed to support it. In this manner the university loses its academic freedom and becomes the pawn and agent of an all-powerful state. God forbid it!
Bureaucracy in government expands in the same manner. There is never any retrenchment, always expansion. New emergencies can always be dreamed up to extend the crisis.
If the American people do not soon awaken to the dangers ahead there will never be a third world "hot" war. Joe Stalin can sit on the sidelines and observe the United States grow seductively and surreptitiously into a pattern of government, so close to his own, that "fellow travelers" will fit into it and not be observed.
Respectfully yours,
Gordon M. Tamblyn
Builders' Service Organization
APRIL 1951
Avoid ‘War’ Sales Attitude, Kitchen Dealers Warned

“The public will not tolerate the ‘Don’t you know there’s a war on’ attitude which is cropping up again on sales floors in many places,” F. F. Duggan, general sales manager of the American Central Division of Aven Manufacturing Corp., told distributors attending a recent regional sales conference at the Sheraton Hotel, Chicago.

The meeting was the first in a nation-wide tour of 16 key cities Duggan and his staff are making to confer with dealers and distributors.

“The salesman and his company,” Duggan said, “for their best interest as well as for the national morale, must avoid the mistreatment of the public that occurred as a result of the ‘don’t you know there’s a war on’ attitude during and after the last war.

“We think that now is a good time to remind our entire sales organization, from factory to dealer, that the companies and sales people who cling to high standards of courtesy, tact and fairness, come-what-may, will prosper most from consumer good will in the future.”

He pointed, as evidence of the firm’s intention to “keep selling,” to the 1951 advertising and sales promotion budget, the largest in the company’s history.

Shown at the conference for the first time was the new “Mrs. America” packaged kitchen consisting of a 54-inch deluxe sink, and base and wall cabinets, designed to serve as a “starter” for a variety of kitchen arrangements or as a complete installation. It will be sold at a price no higher than many individual appliances, according to Duggan.
HERE’S THE SYSTEM
THAT MAKES REMODELING
painless!

“Sales resistance melter”—“door opener”—
“profit producer”—these are some of the names which
builders are calling the Nu-Wood and Balsam-Wool
System. They’ve found that remodeling jobs are amazingly
easy to close when they put this system to work...

SEE HOW SIMPLE IT IS: First you suggest remodeling an old
room—or building a new one in unfinished space—with Nu-Wood
Lok-panels, Tile and Plank. Then you show the homeowner
how Balsam-Wool sealed insulation applied in the uninsulated
attic, can save enough in fuel bills to pay for itself and the new room,
too. As additional clinchers, you explain how Nu-Wood goes
up without muss or fuss—adds extra insulation—needs no painting
or decorating—makes remodeling really painless. We’d like
to give you all the facts about this remarkable “success”
story. Just mail the coupon!

One bedroom, now two! That’s good news
for any homeowner, and you can make the
transformation easily with the Nu-Wood
and Balsam-Wool System.

Wood Conversion Company
Dept. 119-41, First National Bank Bldg.
St. Paul 1, Minnesota
Please send me information about the Nu-Wood
and Balsam-Wool System, and detailed hints on
making 2 rooms out of 1.

Name..............................................................................
Address...........................................................................
City................................................................. State..............
"That house is really weather-tight—it's weathersealed with FOLLANSBEE TERNE METAL"

Weatherscaling with Follansbee Seamless Terne Metal is positive and long-lasting—somewhat like an insurance policy against rain and high winds. In fact, many homes and other types of buildings have Follansbee Terne Roofs that have given trouble-free service for more than a half-century.

But roofing is only one of the uses for Follansbee Seamless Terne Metal. This durable, time-tried material is particularly well suited for flashings, copings, ridges—for gutters, valleys, spouting.

Every building needs metal for weatherscaling regardless of the type of construction. And terne metal is so readily accepted by architects and engineers that you can include Follansbee Seamless Terne Metal in your bids on new construction or repairs.

Be sure to call in your sheet metal contractor whenever you have a roofing or weatherscaling problem. He'll tell you all about the advantages of Follansbee Seamless Terne Metal. And, from time to time, we'll have other information you'll want in your files—just write Seamless Terne Dept., Follansbee Steel Corporation and we'll see that it's sent you.

FOLLANSBEE STEEL CORPORATION

Lewis Brown Dies; Was Top Johns-Manville Executive

Lewis H. Brown, chairman of the board and chief executive officer of Johns-Manville Corp., died February 26 after a heart attack in Delray, Fla. He was 57.

Mr. Brown was also chairman of the board of Canadian-Johns-Manville Co., Ltd., and the Johns-Manville International Corp. He was a director of the American Telephone and Telegraph Co. and the Federal Reserve Bank of New York.

A native of Creston, Iowa, Mr. Brown served as an infantry captain in World War I.

He leaves his widow, the former Mary A. Allen, and three daughters, Mrs. Edward Townsend, Mrs. William Homer Sweeney and Mrs. Charles E. B. Griggs.

Research Homes Feature New Plan Book

A new plan book, "Research Designed Homes," based on practical application of construction principles and improved building techniques suggested by architectural research in home design recently completed by the Small Homes Council of the University of Illinois, has been published by National Plan Service of Chicago.

The 18-month project, carried out under a research grant by the Lumber Dealers Research Council, was designed to develop, through "unit planning," house plans which permit standardized construction and yet avoid a "mass-produced" look in the finished homes. Results have been announced in national press releases from the Small Homes Council.

Blueprint plans for all the designs shown in the book will be made available to retail lumber dealers by the plan service, in accordance with its dealer distribution policy.

Unit plans in the publication are so illustrated that they can be cut out by prospective home buyers and adapted to fit individual requirements. Although new, modern house designs are emphasized, conventional types are also included.

Information about the plan book can be obtained from National Plan Service, 1315 Congress St., Chicago, 7, Ill.
Detailed information is given on sawmills, manufacturing plants, timber fabricators, a wood pipe and tank manufacturer and wood treating plants in the Douglas fir region of Western Washington, Oregon and Northern California.

New member mills total 66 since the 1950 edition and their listing along with membership changes will give the lumber buyers the latest information on mill locations, officials and sales offices, facilities and products manufactured. Copies of the guide are available by writing the West Coast Lumbermen’s Association 1410 S. W. Morrison St., Portland 5, Ore.

Rotating Water Sprayer
Reported Good Roof Cooler

Roof temperatures that soar as high as 150 degrees F. under a blazing summer sun can be cooled down to 100 degrees by use of a rotating water spray.

This was reported by G. E. Sutton, assistant in research, mechanical engineering department, Engineering and Experiment Station, University of Florida, at the 57th annual meeting of the American Society of Heating and Ventilating Engineers in Philadelphia.

Sutton said the solar radiation on a horizontal surface in his state may be as much as 2,300 B.t.u.’s per square foot of surface in one day. This is nearly the heat equivalent of one horsepower-hour, or about two-thirds of the equivalent of one kilowatt-hour.

Since temperatures are lower and comfort conditions better within a space below a sprayed roof, Sutton said the installation of sprays on air-conditioned buildings will reduce the required refrigeration capacity and thus effect a saving in the cost of materials and insulation.

Nation’s Forest
Situation Discussed


At a time when many Americans are asking if forests in the United States, after 300 years of production, are capable of meeting unprecedented military and civilian needs, this book has added significance. It is a concise, pictorial presentation of statistics made available by industry, and by federal, state and private agencies.

TRY THIS TO SELL HOUSES
...FASTER

Here’s an effective way to make your house stand out...to add an extra look of luxury, quality, richness, value. Use walls or partitions of beautiful Blue Ridge Patterned Glass to separate some of the living areas in each of your homes.

That way you can give rooms privacy without the darkening effect of ordinary opaque partitions. No one can see through these walls of glass but light can move easily from one room to another.

You can use that idea a hundred ways. A distinctive panel beside the front door...or in the door itself. A beautiful wall between kitchen and alcove...between entrance hall and living room.

This wonderful glass saves plastering and painting. It decorates both rooms at once. And its beauty never dims. A swish of a damp cloth keeps it sparkling clean.

A partition of patterned glass is a mighty salable idea. In your present plans, there are probably plenty of places where this feature can be substituted for ordinary, uninteresting walls. You can choose from over 20 beautiful Blue Ridge Patterns. Call your L-O-F Glass Distributor for complete details. And mail the coupon below for our illustrated book. 

Blue Ridge Sales Division, Libbey-Owens-Ford Glass Company
B-141 Nicholas Building, Toledo 3, Ohio

Please send me my copy of "New Adventures in Decorating"

NAME ___________________________  (PLEASE PRINT)

ADDRESS _________________________

CITY ___________________________  STATE ______________

FOR SOFT, DIFFUSED LIGHT • SMART DECORATION • COMPLETE PRIVACY

APRIL 1951
**IF YOUR PARTNER DIES ARE YOUR INTERESTS PROTECTED?**

A Business Purchase Agreement, when properly prepared and implemented, offers an iron-clad and inexpensive protection for your interests and those of your partner and his family. In the event of your partner’s death enough cash is provided to prevent forced sale of the physical assets of your business to pay the debts and inheritance taxes of your partner’s family.

WRITE TODAY FOR FREE BOOKLET

“The Importance of Business Purchase Agreements” clearly explains the application of this vital protection in partnerships, sole proprietorships, and close corporations. This is something you should know about. Address: National Life Insurance Company, Dept. E, Home Office—Montpelier, Vt.

NATIONAL LIFE Insurance Company
MONTPELIER, VERMONT
A MUTUAL COMPANY—OWNED BY ITS POLICYHOLDERS

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**Name It—And Win It**

To help acquaint the plastering and masonry industries with their new Model T-135-S plaster and mortar mixer, the Essick Manufacturing Company has announced a mixer naming contest for all contractors, their families, employees and employees’ families. The person submitting the name selected for this 31/2 cubic foot batch mixer will receive one of the units free, delivered freight prepaid anywhere in the United States or Canada.

The contest starts March 1 and ends April 31, 1951, according to H. S. Mulhollen, general sales manager of Essick Manufacturing Company. Every Essick dealer has specification sheets on the new mixer, and official entry blanks which must be used in submitting names.

Judges in the contest are A. D. Hoppe, past president of California Lathing and Plastering Contractors Association; Joseph A. McNeil, past national director of A.G.C., and J. A. Powers, president of Mason Contractors Exchange of Southern California.

**Near Record Turnout for St. Louis Home Show**

The St. Louis Home Show, which closed February 25, drew a paid attendance of 97,636, a near record. The all-time high for the annual event was 102,456 in 1950.

H. J. Loosley, president and managing director, said the show was satisfactory from every viewpoint to both exhibitors and management, particularly in audience interest and direct sales. He said sales were far in excess of 1950 in all lines of merchandise and services displayed.

Owned and operated by the Home Show of St. Louis, Inc., the show is sponsored by the Home Builders Association of Greater St. Louis.

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**J.M.J. PRODUCTS CO.**

**MAKERS OF THE FAMOUS PT-91 PLASTIC TILE CUTTER**

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**AMERICAN BUILDER**
**Big Apartment Building Uses Roper Ranges**

"Manhattan House," a 582-apartment building being constructed for rental by the New York Life Insurance Co. in New York City, will use Roper gas ranges as standard kitchen equipment, it has been announced by S. H. Hobson, president of the Geo. D. Roper Co., manufacturers, and Charles E. Lane, Jr., resident manager for New York Life.

Apartments in the twenty-story building which covers an entire block contain from two to seven rooms. It will be entirely owned and operated by the insurance company. Ranges to be used are Model 10-7306 40-inch Ropers, Model 10-3402 38-inch Ropers and Model 10-600-inch "Rangette type" units. The manufacturers said that on a large percentage of the ranges, specifications include special features such as "Center-Simmer" top burners and infra-red "Roper-Glo" broilers.

---

**DRAWING of one of apartment kitchens with one of 582 Roper ranges installed**

**FROM OUR BOOK DEPT.**

**HOME BUILDERS MANUAL**—The Home Builders Manual is designed to provide the prospective home builder with competent advice, a general idea of the special features of homes designed for modern living, and complete sets of open specifications, material lists and property records. The loose-leaf binder permits the addition of material of special interest to the prospective home builder.

Included is American Builder's "Blueprint Plans" book offering a choice selection of home designs.

1950. 3rd ed. 270 pages, 150 illus., 9 1/2 x 11 1/2, 3-ring canvas binder, $5.00

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**YESTERDAY... TODAY and... TOMORROW...**

---

**AMWELD**

STEEL DOORS AND FRAMES
SLIDING CLOSET DOOR UNITS
THE FAVORITE OF HOMEMAKERS AND BUILDERS

...And the reasons — they cut building costs, provide lasting beauty with trouble-free service, meet today's construction standards, blend with all types of construction, and require less installation time.

---

**K-D UNITS, TOO!**

Sliding Closet Door Units are also available in packaged, knocked-down form, completely assembles, perfect for new construction and particularly adaptable for remodeling.

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**Building Products Division**

**THE AMERICAN WELDING & MANUFACTURING CO.**

360 DIETZ ROAD • WARREN, OHIO

**APRIL 1951**
FIRST* AGAIN WITH SAVINGS
ON YOUR CONSTRUCTION DOLLAR

Pittsburgh Corning announces
the new Clean Easy "55" line functional blocks
— simplify installation
— cut fenestration costs

Now— when every hour, every dollar saved is a vital contribution to all-out mobilization— Pittsburgh Corning offers you a new way to reduce the cost of functional Glass Block fenestration.

A revolutionary new finish, applied to the surface of PC Functional Glass Blocks during manufacture, repels water, prevents splashes of mortar from sticking to the block, prevents accumulation of installation scum. Therefore, finished panels can be cleaned much more quickly and easily, without excessive scraping, scrubbing, or the use of strong solvents.

This new development — proved by months of testing under the most strenuous service conditions — follows closely Pittsburgh Corning’s introduction of brightly colored markings and “finger-feel” ridges to assure correct positioning of blocks. These practical improvements are saving all-important time and money on the installation of PC Glass Block functional fenestration.

When you are facing problems that concern making the most effective and economical use of natural daylighting, our specialists will be glad to consult with you. Just write to Pittsburgh Corning Corporation, SB-41, 307 Fourth Avenue, Pittsburgh 22, Pennsylvania.

Southern Research Group
To Study Building Codes

The Southern Research Institute, Birmingham, Ala., has been designated a research facility for the Southern Building Code Congress “in recognition of outstanding results achieved for sponsors in developing and upgrading a wide variety of building materials produced in the South.”

Announcement of the research group’s selection was made by James W. Morgan, Birmingham, president of the Code Congress, which was organized for the more general adoption of modern performance codes in thirteen Southern states. Other laboratories designated for research by the Congress were the National Bureau of Standards, Washington, D.C.; the Underwriters’ Laboratories, Chicago; and the Southwest Research Institute, San Antonio, Tex.

Construction research was begun at the Institute five years ago and now has more than 20 sponsors. Current projects include determination of strength, durability, insulating and fire resistant qualities of such materials as concrete block, roofing and wallboard, metal laths, finish lime, outdoor and indoor paint and pipe insulation.

In New or Old Work,
Masonite Panelwood
is Easy to Install

Increasing use of Masonite Panelwood for dry walls in new construction and remodeling has prompted the manufacturer, Masonite Corporation, to review for builders the correct technique for its installation. Available in thicknesses of ¾ and ⅛ inches, the lightweight but rigid panels come in widths of four feet and lengths to 12 feet.

Approximately 18 to 24 hours before they are to be installed, the panels should be stood singly around the room in which they are to be used. In new construction, the panels may be applied over wood studs, joists or other framing not over 12 to 16 inches on centers. To provide bearing for end joints, 2x4-inch headers should be inserted, since all edges must be supported. Headers should be installed back of chair rails and all other similar trim. For this purpose, the builder is advised to use only straight lumber of uniform thickness.

Nailing Instructions

Masonite Panelwood is applied with the long dimension parallel to...
the supports. Boards are brought to moderate contact at sides, top and bottom, but the company warns that boards should not be forced into place.

Nailing instructions are given as follows:

"Beginning at or near the center of the panel, drive nails perpendicular to the surface, approximately six inches apart on intermediate supports and four inches apart around edges. Do not toe-nail. Finishing or casing head nails may be used. They should be long enough to penetrate into the nailing base at least one inch.

"Where the Panelwood is to be left in its natural brown color, copper-coated nails may be driven flush with the surface, but bright nails must be slightly counter-sunk and filled over. Where the boards are to be painted, all nails should be counter-sunk slightly and nail holes should be filled with putty or a similar material to form a smooth, unbroken surface."

If the joints are to be covered, a moulding made of wood, Presdwood or metal is used, secured with nails or fasteners. If the joints are to be left exposed, edges of the boards are slightly beveled to form a V-joint. Square edges are never butted together in an attempt to obtain an unbroken wall surface.

To cover unsightly cracked plaster walls, the company recommends that Panelwood be applied over the cleaned, smoothed, solid plaster backing with waterproof adhesive. The plaster is to be tight, level and smooth—patched if necessary. All loose paint, calcimine or other foreign matter should be removed.

"Spread the adhesive evenly over the entire back or screen surface of the board with a saw tooth trowel, bringing it close to all edges and any openings cut in the panel," the company suggests. "Utmost care should be taken to prevent the adhesive from seeping through the joints or getting on the surface of the finished board. Never apply adhesive until the board has been carefully fitted and ready to install.

"Immediately after spreading the adhesive, the craftsman places the board in position, pressing it firmly in place and tapping the entire surface. Braces then are placed against the board until the adhesive sets, a process usually completed overnight. Where necessary, nails may be used to support the board until the cement sets, after which the nails are removed unless counter-sunk." Masonry walls should be furred with 1x2-inch strips shimmed to a true level plane to receive Panelwood.
GREATLY
KEEPS
WALLS
DRY...

CRYSTAL (pat. pending) the invisible silicone masonry water repellent keeps brick, stone and concrete walls bone dry. It stops dampness dead. A single application (sprayed on quickly at low cost) keeps moisture out indefinitely yet allows your walls to breathe. Also retards staining, prevents efflorescence, protects masonry joints and safeguards interior decorating.

Little wonder CRYSTAL, furnishing low cost protection, is specified by leading architects, used on great building projects as well as on thousands of small homes, apartments, schools, churches, hospitals and industrial plants.

there is no water repellent to equal CRYSTAL...none...none in all the world!

Send for CRYSTAL New Comprehensive Manual How to Keep Walls Dry

WURDACK CHEMICAL CO.
4956 Fyler Ave., St. Louis 9, Mo.

YOUTZ-SLICK Lift Slab building method was successfully used in first commercial test in erection of Trinity University administration building shown during construction.

Favorable comments were made concerning the method at an open forum attended by 150 construction men and sponsored by the Texstar Corporation recently at the laboratories of the Institute of Inventive Research.

Speakers at the forum included Frank T. Drought, engineer and a consultant on the university construction; O'Neil Ford, one of the architects for the university and a consultant to the Institute on the new method; Robinson Brown, supervisor of engineering design for Southwest Research Institute which conducted much of the technological research work; John Porter, engineer for the Institute of Inventive Research; William Rhamie, president of Texstar Corporation; and Dr. Harold Vagt.
More than 50 BRAND-NEW improvements . . . including

NEW! SMOOTHER RIDE—You get more power than ever—engineered for your job! Eight great engines—with net horsepower stepped up as much as 20%! You get more of the right power for your needs—with top economy! Yet, with all their extra value, new Dodge "Job-Rated" trucks are priced with the lowest.

NEW! EASIER LOADING—You can turn new Dodge "Job-Rated" trucks sharper . . . maneuver them more easily. New shorter turning diameters! New worm-and-roller steering gears! All this—plus cross-steering, wide front tread and short wheelbase.

NEW! BRAKING SAFETY—New Dodge "Job-Rated" trucks are the trucks with new molded, tapered Cyclebond brake linings! New extra-quiet action! New extra-smooth, extra-sure stopping! New longer lining life! (On new 1½-ton and up trucks, except air brake models.)

PLUS THIS EXCLUSIVE! gyrol Fluid Drive available on ½-, ¾-, and 1-ton, and Route-Van trucks.

"Job-Rated" for Building Supply Dealers

Brand new

DODGE "Job-Rated" TRUCKS

The trucks that do the most for you!

BRAND-NEW POWER—You get more power than ever—engineered for your job! Eight great engines—with net horsepower stepped up as much as 20%! You get more of the right power for your needs—with top economy! Yet, with all their extra value, new Dodge "Job-Rated" trucks are priced with the lowest.

NEW! EASE-OF-HANDLING—You can turn new Dodge "Job-Rated" trucks sharper . . . maneuver them more easily. New shorter turning diameters! New worm-and-roller steering gears! All this—plus cross-steering, wide front tread and short wheelbase.

NEW! BRAKING SAFETY—New Dodge "Job-Rated" trucks are the trucks with new molded, tapered Cyclebond brake linings! New extra-quiet action! New extra-smooth, extra-sure stopping! New longer lining life! (On new 1½-ton and up trucks, except air brake models.)

PLUS THIS EXCLUSIVE! gyrol Fluid Drive available on ½-, ¾-, and 1-ton, and Route-Van trucks.

See your Dodge Dealer today for

THE TRUCK THAT FITS YOUR JOB... A DODGE "Job-Rated" TRUCK
HIGH PRIORITY SALES FEATURE*
Helps SELL 17,000 HOMES!
at rate of 175 Homes per day

IN
LAKEWOOD
"CITY WITHIN A CITY"
World's largest new community!
"This garbage disposer has high priority in the selling spiels of Lakewood's 50 salesmen. (You will be living in the only town on earth without garbage.)"
Quotes, Architectural Forum
June, 1950 issue

THE AUTOMATIC
WASTE KING Pulverator
America's Finest Garbage Disposer!

Wherever Builders are making sales history, you'll find their kitchens equipped with the automatic, tract-tested Waste King Pulverator. As in Lakewood, and other tracts, large or small, this one "high-priority feature" in the kitchen can influence and close the sale faster. It's the one feature that offers the greatest value for the least amount of money.

Here's why more Builders and Architects specify WASTE KING:
★ Lifetime Grind Control, protects the plumbing.
★ Anti-jam features, eliminates binding or clogging.
★ Lower installation cost, no brackets required.
★ Longer, dependable, trouble-free service.
★ Continuous-feed operation, preferred by more women.
★ Competitively priced, your best buy!

FREE! Garbage Disposer A.I.A. file folder sets.

Mail out coupon now! MAIL TODAY!

GIVEN MANUFACTURING CO., Dept. AB4
1250 Wilshire Blvd., Los Angeles 14, Calif.
Please send free Garbage Disposer A.I.A. file folder set. I contemplate using garbage disposers within the next six months.

Firm Name ________________
Address __________________
City ________________ State ________________
Your Name ________________

Merchandising Techniques
Offered In New Booklet
By Westinghouse

An automatic light switch for cupboard doors, a built-in bathroom sunlamp, or valance lighting above a sink carry a powerful sales appeal for the potential home-buyer, according to a booklet recently published by the Westinghouse Electric Corp.

The generously-illustrated, 32-page booklet, prepared by the Westinghouse Better Homes Bureau, demonstrates how a contractor can add value and sales appeal to any new home. Six sales features, ranging from a well-planned and equipped kitchen to adequate wiring throughout the new home are featured in the book.

A. Carl Bredahl, manager of the Westinghouse Better Homes Bureau, says the publication is an effort to provide the contractor with the same merchandising techniques used so effectively by automobile dealers and others.

Ten pages of the booklet are devoted to sales features that can be made a part of the kitchen.

Copies of the booklet may be had by writing to Better Homes Bureau, Westinghouse Electric Corp., P. O. Box 806, Pittsburgh 30, Pa., and requesting "Sales Features For Electrical Living Homes."

Lift-Slab Building...
(Continued from page 274)

borg, president of Southwest Research Institute.

Dr. Vagtborg, who is also director of the Institute of Inventive Research, informed the assembled contractors, engineers and architects that in addition to the successful operation at Trinity University, much experience and further research and development work was needed to advance the technology of the new technique and to increase its cost-cutting possibilities.

John Porter, in answering technical questions regarding slab designs, layouts, and economies to be derived by use of this method, asserted that the saving per square foot of floor space on the Trinity job was approximately 30 cents and that this economy on buildings of comparable design should range as high as 50 cents.

Dr. Vagtborg disclosed that the Institute was negotiating with several large companies which had applied for franchise agreements enabling them to license construction companies to use the method in this country and internationally.

AMERICAN BUILDER
CONTRACTORS! Cut the Cost of Installing Insulation up to 40% with Lo-"K"

The principle of insulation, regardless of type of material, is based upon the creation of minute air cells which effectively hold and prevent the circulation of air. The greater the number of air cells the more effective the material as an insulating agent. In this respect, cotton is a "natural." Our calculations show that a piece of cotton insulation one foot square by three inches thick creates approximately 24 billion air cells. This superfluity of air cells in Lo-"K" Insulation makes it equal to, if not superior to any other type insulation on the market.

Likewise, because of its low "K" value or thermal conductivity (0.24) Lo-"K" insulates from 4% to 36% more efficiently than any other type commercial insulation. The following table of tests by recognized laboratories show Lo-"K" leadership in both "K" factor efficiency and lightness of weight.

<table>
<thead>
<tr>
<th>Material</th>
<th>Wt. per cu. ft</th>
<th>Insulating Value</th>
<th>&quot;K&quot; factor</th>
<th>Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lo-&quot;K&quot; Cotton Insulating Batt</td>
<td>.875</td>
<td>.24</td>
<td>J. C. Peebles</td>
<td></td>
</tr>
<tr>
<td>Rock Wool—Loose Fill type</td>
<td>10.0</td>
<td>.27</td>
<td>Bureau of Standards</td>
<td></td>
</tr>
<tr>
<td>Chemically treated wood fibers between sheets of paper</td>
<td>3.62</td>
<td>.25</td>
<td>J. C. Peebles</td>
<td></td>
</tr>
<tr>
<td>Glass Wool—Loose Fill type</td>
<td>1.50</td>
<td>.27</td>
<td>J. C. Peebles</td>
<td></td>
</tr>
<tr>
<td>Stitched &amp; Creped Expanding Fibrous Blanket</td>
<td>1.50</td>
<td>.27</td>
<td>J. C. Peebles</td>
<td></td>
</tr>
</tbody>
</table>

"K" factor means the amount of heat expressed in British Thermal Units transmitted in 1 hour through 1 sq. ft. of a homogenous material 1 in. thick for a difference in temperature of one degree Fahrenheit between the two surfaces of the material. The lower the factor, the better the insulation. The values in above tables taken from the Guide of the American Society of Heating & Ventilating Engineers.

Lo-"K" Insulation is available in Open and Closed Blanket type with Aluminum Foil Backing—or Open and Closed Blanket type with asphalt-coated Kraft paper backing.

The special construction of Lo-"K" insulation, its lighter weight (only .875 lb. per cubic foot) and the absence of skin irritants enables you to save up to 40% in installation costs alone.

Low cost installation is just another reason why more and more contractors are selecting Lo-"K" Insulation for all types of insulating jobs.

Lo-"K" insulates from 4% to 36% more efficiently... stays permanently in place... doesn't sag or settle... resists moisture (asphalt-coated Kraft paper stays firmly in place to form a vapor barrier)... resists vermin, mildew and rot... is flameproofed to rigid government specifications... lasts a lifetime.

Lo-"K" Insulation is available in Open and Closed Blanket type with Aluminum Foil Backing—or Open and Closed Blanket type with asphalt-coated Kraft paper backing.

INSULATION DIVISION
LOCKPORT COTTON BATTING CO.
Lockport, N. Y.
New York Office: 1407 Broadway
How HOUSE BEAUTIFUL Has Concentrated Its Efforts To
Bring The Story Of Climate Control To The Public And The Building Industries

September 1949...HOUSE BEAUTIFUL’s Climate Control Project was introduced to the building industry at a meeting held at the Waldorf-Astoria in New York City. More than 400 representatives of building and allied industries as well as scientists and engineers attended.

Visit to HOUSE BEAUTIFUL’s first actual Climate Control and Pace-Setter House at Orange, New Jersey by group attending meeting at the Waldorf-Astoria.

Climate Control introduced to the public with HOUSE BEAUTIFUL’s October 1949 issue. Forty-nine pages of editorial matter were devoted to the subject. Complete regional analysis of the Mid-Ohio area was included.

October 1949...Metropolitan New York-New Jersey Area Analysis published in November issue of HOUSE BEAUTIFUL presenting HOUSE BEAUTIFUL’s first Climate Control. Pace-Setter House in Orange, New Jersey. Analysis of Mid-Ohio Area was published in the Bulletin of the American Institute of Architects for October.


December 1949...National Warm Air Heating & Air Conditioning Association 56th Annual Convention at Cleveland, Ohio, December 14-15, addressed by Elizabeth Gordon presenting Climate Control Project.

Climate Control for South Florida-Miami Area presenting 2 existing houses in Miami and Coral Gables published in January 1950 issue of HOUSE BEAUTIFUL.

January 1950...Address on Climate Control by Dr. Howland before Eastern Association of Nurserymen, New York. Building Research Advisory Board of the National Research Council National Academy of Sciences devoted January 11 meeting to presentation of “Weather and the Building Industry”—a meeting called to inform the building industry-at the scientific level—of HOUSE BEAUTIFUL’s Climate Control Project. An address was made by James M. Fitch.

March 1950...Presentation of Arid Southwest Area Analysis in April 1950 HOUSE BEAUTIFUL.

April 1950...Arid Southwest Analysis published in April Bulletin of the American Institute of Architects.

Mid-Mississippi Area Analysis presented in May issue of HOUSE BEAUTIFUL.

Publication of Building Research Advisory Board Conference report #1—Weather & The Building Industry.

May 1950...Kansas City, Missouri—Address by James Fitch to Producers Council Chapter members on Climate Control in the Mid-Mississippi Basin.

St. Louis, Missouri—Address by James Fitch to Producers Council Chapter members on Climate Control on the Mid-Mississippi Basin.

Mid-Mississippi Area Analysis published in May Bulletin of the American Institute of Architects.

June 1950...Houston, Texas—Address by James Fitch to Producers Council Chapter members on Climate Control and Preview of Gulf Coast Region.

New Orleans, Louisiana—Address by James Fitch to Producers Council Chapter members on Climate Control and Preview of Gulf Coast Region.

Gulf Coast Area Analysis in July 1950 issue of HOUSE BEAUTIFUL.

July 1950...Washington, D.C.—Address by Dr. J. E. Howland before National Association of Nurserymen on HOUSE BEAUTIFUL’s Climate Control Project.


September 1950...Chicago Area Analysis presented in Bulletin of American Institute of Architects.

First year report on the Climate Control Project published in October issue of HOUSE BEAUTIFUL.

November 1950...Twin City Area Analysis presented in November Bulletin of the American Institute of Architects.

December 1950...The Housing & Home Finance Agency—the Government’s top housing authority—asked Building Research Advisory Board to set up a committee to inquire into the next steps to advance the applying of climate data to building design.


February 1951...Twin Cities Area Analysis presented in March issue of HOUSE BEAUTIFUL.

James Fitch addresses Twin Cities Chapter of Producers Council members—is Twin Cities Climate Control Analysis.

March 1951...Washington, D.C. Area Analysis in April HOUSE BEAUTIFUL. Climate Control house shown.

Boston, Massachusetts Area Analysis presented in March Bulletin of the American Institute of Architects.
"...for Outstanding Services..."

On January 31st, Elizabeth Gordon, Editor of HOUSE BEAUTIFUL, accepted on behalf of the magazine an Award for Outstanding Services to the Advance of Meteorology. This award, conferred by the American Meteorological Society, cited “the far-reaching and stimulating work initiated by this magazine through the Climate Control Project.”

HOUSE BEAUTIFUL is proud to add this latest achievement to the unusual acclaim and acceptance that the Climate Control Project has received in its short 18 months of existence. We are especially proud because this award marks the first time such an honor has been bestowed upon a private corporation in the 51-year history of the American Meteorological Society.

But far beyond our pride is the satisfaction we feel in knowing that Climate Control has, in only 18 months, become an integral working part of the many industries crossed by this highly specialized knowledge. Such pioneering as is evidenced in HOUSE BEAUTIFUL’s Climate Control Project is, we feel, pushing the world another notch ahead.

HOUSE BEAUTIFUL Magazine

572 Madison Avenue, New York 22, N. Y.

Technical information prepared by the A.I.A. on each of the areas studied in HOUSE BEAUTIFUL’s Climate Control Project is available from HOUSE BEAUTIFUL at 50¢ each.
Developments in Modular Coordination, Other Standards Cited by ASA

The program of modular co-ordination in the building industry—a system of making and installing building materials in sizes that differ by a uniform increment, a four-inch module—has entered a new phase of activity, according to the American Standards Association, which reports these developments.

Establishment by the American Institute of Architects of a section on modular co-ordination in its Department of Education and Research; Adoption by ASA of a resolution to advance acceptance of the program; and provision for funds and a full-time secretary.

Also announced by ACA, a private federation of more than 100 nationally-recognized building industry trade and technical organizations to effect recommended standardizations, were a number of other developments, aimed both at construction cost-cutting and greater safety.

Active work on the revision of the six-year-old standard, Building Code Requirements for Masonry (A41.1-1944), has been under way for more than a year. Discussion of a new draft for the standard has indicated that further changes may be necessary in order to provide for recent developments in building construction before it can get the required majority approval in committee and be submitted to ASA’s building code and construction standards correlating committee. Leadership in formulating this code is assigned to the National Bureau of Standards.

Another project is the development of Building Code requirements for Fire Protection and Fire Resistance. Several new standards may result from this project, ASA said. A research program of the National Lumber Manufacturers Association, Douglas Fir Plywood Association and others, is expected to give, when completed, the requirements of interior finish.

An eighth draft of recommendations on height and area limitations has been circulated for acceptance by the sectional committee. A report on fire-resistant ratings suggests that data obtained in research by the NBS may be included in these codes. Work is also proceeding on classifications and definitions. The problem of fire-stopping of floors is being studied and recommendations of classifications of occupancies are being modified to conform with this com-
Richflex! The Richkraft Company, 1601A Builders Building, 228 N. LaSalle St., Chicago 1, Illinois.

Please send me full details on Rich Flex.

Please send me full details on your line of reinforced and black sheathing papers.

Company Name

Address

City Zone State

Signed

THE RICKKRAFT COMPANY
Builder Building - Chicago 1, Illinois

Richkraft brings you a new 4-way reflective insulation with the experience of years behind it. Richflex keeps winter heat in - summer heat out - acts as a moisture-vapor barrier - acts as a cold air barrier. Richflex, with its special aluminum pigment, turns back more than 75 per cent of the heat rays. This can mean 30 per cent fuel savings in winter and a reduction of 15° in summer.

The introduction of Richflex gives the construction industry one source for its insulation, reinforced and black sheathing papers - one source, one responsibility.

Ask for our new folder describing how it works with full details for installation. Richflex can be had in three grades in 36"/500 sq. ft. rolls. Write today!
**Gate City awning WINDOWS**

The Window that invites comparison

Talk about on-the-job economy in time and labor--here it is!...in a window designed to combine modern climate control features with the finest all weather protective advantages.

GATE CITY Wood Awning Windows are delivered as a complete packaged unit, easier to handle; simpler to install.

Wood windows are easier to paint...to harmonize with varied color schemes in every room.

Stock sizes are available to meet your every requirement, with fast delivery timed to avoid work delays.

WOOD AWNING WINDOWS
pioneered by
Gate City

are precision-made and preservative-treated for long-lasting durability and dimensional stability.

See your building supply dealer. Refer to AMERICAN LUMBERMAN 1951 Dealer Products File.
Or write for literature and name of nearest dealer.

GATE CITY SASH & Door Co.
"WOOD WINDOW CRAFTSMEN SINCE 1910"
FORT LAUDERDALE, FLORIDA

--Member of the Producer's Council, Inc.--

Send 25¢ for SMALL HOMES PLAN BOOK with 40 plans showing Awning Windows. Postpaid.

**Modular Coordination**

(Continued from page 280)

Committee's suggestions. The National Board of Fire Underwriters, National Fire Protection Association and National Bureau of Standards are supplying the technical leadership in formulating these standards.

In connection with fire protection of buildings, four revised American Society for Testing Materials standards on fire tests of building construction and materials are being considered for approval as American Standards. Earlier editions of two of these standards have had ASA approval.

Still another new project in progress is a building code for chimneys and heating appliances. Work on minimum requirements, started before the war, was resumed a few months ago. Results of research on the subject, conducted by the NBS and the Housing and Home Finance Agency were published last winter. Recommendations for a revision of this code are expected to be available before the end of the year. National Board of Fire Underwriters has technical leadership in revising the code.

The Building Code Requirements for Light and Ventilation (ASA A53.1-1946) are being studied for possible revision. Questions concerning revision have been taken up with the sponsors, U.S. Public Health Service and the Housing and Home Finance Agency.

Standard Building Code Requirements for Excavations and Foundations, written months ago, have been delayed by disagreements. Recent compromises and understandings between sectional committee and sponsor—the American Society of Civil Engineers (ASCE)—indicate the possibility of a consensus agreement soon, and approval as an American Standard early in 1951.

Building Code Requirements for Reinforced Gypsum Concrete (A59.1-1945) are being studied for revision jointly by the Gypsum Association and Building Officials Conference of America as a result of proposals made to them.

Considerable progress has been made in the preparation of a draft for a standard on Building Code Requirements for Wood at Forest Products Laboratory, Madison, Wis. When completed, this will be the first American Standard code covering the design and erection of structures using wood as a building material.

The first of two standard methods (Continued on page 284)
Protect yourself against job shut-downs during these uncertain days by making Vitrified Clay Pipe "standard" in the dozens of places on your jobs where it is so perfectly suited. Clay Pipe's reputation for long trouble-free service in house connections, basement footing drains, downspout drains, yard and lawn drainage and in many other uses is unmatched... because it never wears out. Ground-water chemicals can't affect it. Electrolytic soils don't corrode it. It's the only pipe that protects your reputation by lasting forever.

WRITE FOR ADDITIONAL INFORMATION and data on Vitrified Clay Pipe, Wall Coping and Clay Flue Lining. Sent FREE on request. State your specific questions. Simply contact the regional office nearest you.
ReadyBuilt
(Reg. U. S. Pat. Off.)

Fireplaces
Adds beauty, cheer and comfort to any home, old or new.
The modern fireplace that fulfills all modern day requirements—used with gas or electricity.
Large variety of attractive models in brick, stone, wood, etc., available.
Furnished complete—ready to be installed by a handy man—shipped anywhere.

Dealers, Builders and Homeowners write for catalog and full information.
The ReadyBuilt Products Company
1705-23 McHenry Street Baltimore 23, Md.

Modular Coordination
(Continued from page 282)

For testing timber and wood (04-1927) is being revised also under the leadership of ASTM.
Revision of American Standard Specifications for Gypsum Plastering, Lathing and Furring (A42.1-1946), commenced last year, has been completed. Two separate standards which have been prepared are expected to be submitted to ASA for approval before October. Suggestions for revisions of the two standards on portland cement plastering (A42.3-1946) and portland cement stucco (A42.2-1946) are being studied. Also, revisions for at least one of the three standard specifications for gypsum and gypsum plasters are under consideration by the American Society for Testing Materials.

Among the standards concerning the building industry is the Plumbing Code (A40.7-1949). Work on this code dates back to 1924 and ASA entered the picture in 1928. However, little progress was made until a new committee was organized in 1941. The latest revision was developed by representatives of many national organizations, including AIA, BOCA, and American Society of Civil Engineers. An interesting sidelight on this code is the fact that the cost of plumbing in an average home could be reduced by about $50 if plumbing code requirements were uniform in every community. One of the objects of standards is to achieve such uniformity through model codes. The new code has already been adopted by many cities in New York state and elsewhere, led by its adoption by the New York City Department of Health.

The present status of the legality of adoption of standards in general by states and municipalities has been printed by ASA in a 44-page booklet entitled “Nationally Recognized Standards in State Laws and Local Ordinances.” It contains a discussion of some of the methods that might be utilized to extend the use of standards by governmental agencies.

From our Book Dept.
Windows in Modern Architecture—By Geoffrey Baker and Bruno Funaro, A.I.A. The only complete reference book on window design, ranging from solar heat to skylights, from picture windows to factory monitors and from daylight control to spring balances. Features modern architecture’s concern for more and larger windows and explains the solutions of special problems resulting therefrom.
"Fastest Installation I ever made!"

Time and again it's been proved:

You can install Corbin "900" Unit Locks and Latches faster than any other type of lock!

Here's why — No mortising is required; it takes an average workman only five minutes to drill two small holes, make a cut in the edge of the door, and fasten a Corbin "900" lock securely in place! That's all there is to it... the lock is always true and straight with the door, ready to provide years of trouble-free service!

But that's not all! The handsome appearance and rugged security of Corbin factory-assembled "900" Locks and Latches recommend them for all of your buildings. You will install Corbin "900" units with confidence and pride in the right functions and finishes for all school, hospital, apartment, residence, and office building needs.

supply of closets. Dining area in one house is included as part of the kitchen, and in the other as part of the living room. Each living room includes a wood burning fireplace and picture window.

The exteriors are treated in the conventional ranch-type manner with a low pitched roof, overhanging eaves and high windows in the bedrooms. The walls are fin-

(Continued on page 288)
SINKS FOR ANY SITUATION...

for MODERNIZATION
for CUSTOM-BUILT HOMES
for DEVELOPMENTS


THE RICHMOND SERVILLA — Plate No. 1535: Double-drainboard roll-rim sink. Acid-resisting enamel. Drilled for deck-type supply fitting, with hose and spray. Sizes 54" x 25" and 60" x 25". Plate No. 1537: Sizes: 54" x 22" and 60" x 22".

* SINKS FOR EVERY TYPE OF INSTALLATION!

For built-in units — flat-rim sinks with single or double compartments for counter-top installations. With or without drillings for deck-type supply fittings. For base-cabinets — ledge-back sinks with single or double drainboards. For installations where space is at a premium — compact sink and tray combinations. For economical replacements — wall-hung roll-rim sinks with single (left or right) drainboards.

* SINKS IN RUGGED ENAMELED CAST IRON!

Durable cast-iron base with easy-to-clean, acid-resisting enamel for lasting beauty.

* SINKS THAT ARE SURE TO SATISFY!

Richmond quality sinks assure customer satisfaction, whatever type you install. Specify plumbing fixtures that carry the Richmond guarantee.

RICHMOND RADIATOR CO.—AFFILIATE OF REYNOLDS METALS CO.

APRIL 1951
Homes that Meet Family Needs
(Continued from page 286)

ished in a combination of local stone interspersed with Crab Orchard stone for color effect. Gables are faced with wide siding in some cases and vertical flush boards in others. Main wall surfaces are finished in wide cedar shingles laid in double coursing 10 inches to the weather for deep shadow effects. Entrance porches are recessed into the perimeter of the house. In this manner the extended roof line provides protection from the elements. Where chimneys extend above the roof line they are finished in local stone.

It is the policy of the Donnay-Reitz Co. to use nationally advertised materials whenever possible. These include General Electric Co. incinerator and Disposal, 4 Square Lumber, self storing sash and screens, Andersen pressure seal window frames, Crane Co. plumbing fixtures, Johns-Manville insulation and asphalt roof shingles, Armstrong linoleum, Bruce flooring, American Furnace Co. gas-fired forced warm air furnace.

The grounds are completely graded and sodded with evergreen planting placed along the front wall of house. These houses are priced from $18,000 to $20,000.

FROM OUR BOOK DEPT.

FAMILY HOUSING—By Deane G. Carter and Keith H. Hinchcliff. Two University of Illinois professors offer suggestions for planning a house to fit a family so that every room is fully utilized. Types of material and construction and financial problem are discussed. Methods of saving expense are stressed. Well illustrated with photographs and drawings. A college textbook.

1949. 265 pages, 160 illus., $5.50 x 9 1/4, cloth, $4.00

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HERCULES METAL BRIDGING SAVES TIME, MAKES MONEY; BRIDGES FLOORS FASTER, BETTER, AT FAR LESS COST!

HOW THEY WORK . . .

Simply set the sharp points of one end into the joist near the sub-floor, then place points of the other end into the next joist near the bottom. PULL DOWN and it snap-locks to position.

Formed from 20 gauge rust proofed steel. Assembles quickly, you do not have to sort them, for they come packed 100 male to a carton, 100 female to a carton. Thus, the 2 cartons make 50 sets (set consists of 4 pieces —when assembled completes the figure X). Shipping weight of the 2 cartons—50 lbs.

HOW THEY SAVE . . .

<table>
<thead>
<tr>
<th>Lumber 1x3 for 16” O.C.—</th>
<th>14¢</th>
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<tr>
<td>.07 per piece</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 eight-penny nails each end</td>
<td>1¢</td>
<td>1¢</td>
<td>1¢</td>
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<tr>
<td>8 nails to set</td>
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</table>

Average cost for cutting (4 cuts)...

2¢

Labor cost (at $2.50 hr. or 4c per min.), to set and install top...

16¢

Labor cost at bottoms, 2 minutes...

8¢

MINIMUM COST PER SET HERCULES METAL BRIDGING...

41¢

MAXIMUM COST PER SET HERCULES METAL BRIDGING USING SKILLED OR UNSKILLED LABOR IS LESS THAN...

31¢

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GLOVER MFG. and SALES
2487 MANCHESTER ROAD
AKRON 14, OHIO

PHONE 3Herwood 2814
Customers have a choice of smooth-surfaced stained shingles with visible joints or grooved surfaced shakes which have invisible joints and resemble handsplits.

They are excellent for use with other building materials.

Application is easy as ABC. Shiplap nailing guide is the only "extra" tool needed.

Customers have a choice of smooth-surfaced stained shingles with visible joints or grooved surfaced shakes which have invisible joints and resemble handsplits. They are excellent for use with other building materials. Application is easy as ABC. Shiplap nailing guide is the only "extra" tool needed.

14 reasons why SHAKERTOWN SIDEWALLS are easy to sell

- They are economical to buy and economical to apply.
- They are pre-stained in a wide selection of colors to save on building cost.
- They are available for prompt delivery from centrally located warehouses.
- They build a home of long-lasting beauty and minimum upkeep cost.

Project home builders are enthusiastic about Shakertown Sidewalls because they eliminate the costly work of painting. This feature alone has accounted for the sale of thousands of squares of Shakertowns to project builders. Note the other sales features shown on this page.

WRITE DIRECT for full particulars

Your Assurance of Quality — All Shakertown Sidewalls are No. 1 Certigrade red cedar shingles. They are backed by over a quarter century of recognized leadership and preference for Perma excellence of quality. Architects, builders and homeowners alike—all prefer the outstanding value of naturally beautiful, naturally better Shakertowns.
How To Use Presdwood For Exterior Siding

The growing acceptance of Masonite 3/4 inch Tempered Presdwood as exterior siding in residential construction is exemplified by the ranch-type home built at Parma, Ohio, by Sam Kephart & Son for William A. Schraegle, an executive of Brookpark Lumber and Millwork, Inc. Cost of the FHA-approved residence was $25,000.

Twelve-foot lengths of the Presdwood, 12 inches wide, were applied 10 inches to the weather over insulation sheathing. The pieces were cut from 4-foot panels.

Leaving a two-inch overlap, a carpenter prepares to nail a panel of Masonite 1/4" Tempered Presdwood over the insulation sheathing on the William A. Schraegle home at Parma, O. Each piece was thoroughly scrubbed with water on the screen side until it turned dark chocolate brown. The pieces were then each exposed surface edge of each Presdwood panel was slightly beveled. Before the panels were applied, (Continued on page 292)

When Building or Remodeling...

Cut Construction Time!

With an EZ-WAY Folding Stairway

An EZ-WAY Folding Stairway will cut your construction time on attic remodeling jobs to a bare minimum. Increases profit! Assures client's complete satisfaction! No vertical or horizontal clearance required in attic or loft. Just cut rough opening and install. The EZ-WAY comes completely assembled, jamb included.

Builders and contractors everywhere are finding the EZ-WAY the practical answer to profitable remodeling and satisfaction. (Used for adding expansion space to new homes, too.) But be sure you get the genuine EZ-WAY. Substitutes are not just as good!

- Touch-controlled, balanced spring action
- Engineered for smooth, easy operation
- Sturdily built, modern in appearance
- No counterweights required

FOR THE NAME OF YOUR NEAREST DEALER WRITE:

EZ-WAY SALES, Inc.
BOX 300, DEPT. A ST. PAUL PARK, MINNESOTA

The installation created considerable interest among architects, contractors and lumber dealers in the area surrounding the Cleveland suburb. Henry A. Kindness, Masonite Corporation representative, sent letters of invitation to a large number to visit the site at 6611 Wilbur Ave., and watch the application of the Presdwood.

Mr. Schraegle's residence has five rooms, and a breezeway connects it with the two-car garage.

Walls of the bedrooms, halls and living room were plastered. Marlite walls were specified for the kitchen and bathroom. Wood paneling was used in the dining room and ceiling of the living room. All other ceilings were plastered.

Contractor Kephart followed the specifications of Masonite Corporation in applying the Tempered Presdwood.

The three exposed surface edges of each Presdwood panel were slightly beveled. Before the panels were applied,
In Electric Exhaust Ventilators

This isn't all

The entire unit fits flush with the finished ceiling or wall.

"The blade's the thing"

**Blo-Fan's Blade is Out of this world!!!**

That's right—the Blo-Fan blade is "out of this world" in design, construction and performance. ...Unusual design of Blo-Fan's blade is the secret of its superiority. The fan portion scoops up large volumes of air while the blower element expels it with great power. ...Made in one piece and dynamically balanced, Blo-Fan's blade is the result of 26 years of experience in manufacturing home ventilators. ...Blo-Fan operates at a moderate, quiet speed, moving more air—quickly, quietly, with greater efficiency.

**SPOT VENTILATION AT THE POINT OF AIR POLLUTION**

For Kitchen, Bath, Game Room and Laundry.

**3 SIZES—** with Blo-Fan you have a choice of models, depending on room size and air change required. Specify by model number to insure the right Blo-Fan for the job.

**AMERICA'S MOST IMITATED HOME VENTILATOR**

**Trade Mark Reg.**

**Pryne & Co., Inc.**

**Trade Mark Reg.**
Why Builder Wittenberg Picked "PYROFAX" Gas!

All the houses in this Ormond Beach, Florida, project are equipped with PYROFAX Gas for cooking and water heating.

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No matter where you build you can install PYROFAX Gas...no expensive wiring needed, no construction changes. PYROFAX Gas is piped directly to the range, refrigerator, and water heater from twin cylinders outside the house. Let us show you how to make your houses "more saleable" by installing PYROFAX Gas!

 magic Chef and Caloric ranges, Servel refrigerators, Ruud and Bryant water heaters, and other nationally known gas appliances are available for use with PYROFAX Gas—from distributors in 30 states east of the Rockies.

Superior BOTTLED GAS Service

For full information, write to Dept. AB.

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30 East 42nd Street, New York 17, N. Y.

The word "Pyrofax" is a registered trade-mark of Union Carbide and Carbon Corporation

Presdwood For Exteriors
(Continued from page 290)

stacked, screen sides together, covered with a tarpaulin and allowed to stand for 24 hours. This process served to expand the Presdwood prior to application. The panels were applied in their moist condition over 25/32 inch insulation sheathing with 8d galvanized nails along the horizontal edge. Two nails were used at each stud. At each vertical joint, carpente-

This view of the Schraegle home shows the Tempered Presdwood siding in place and ready for priming fastened a wedge-shaped wood strip to provide a solid backing for nailing at those points. Here the nail spacing was 3 inches o.c.

Metal corners were attached to protect the edges of the siding and enhance the over-all appearance.

One coat of quality exterior primer followed by two coats of exterior paint were applied.

Had the owner desired a deeper shadow line, the plans would have required a wood strip 3/8 inch x 1 1/2 inch or a strip of Tempered Presdwood to be placed horizontally between the siding strips at the laps. Carpenters would have fastened the strip and the Tempered Presdwood at each stud with two 10d galvanized siding nails.

Similar installations of exterior siding have been made in various parts of the country, corporation executives said. The residences with Tempered Presdwood siding have withstood the weather exceptionally well. It was characteristic of the homes so finished, they said, that the paint lasted unusually long. They pointed out that since Presdwood has no grain and no knots, there is nothing from within the board to mar the finish.

A severe test of the material occurred at Watertown, S. D., where a number of homes with conventional siding were damaged by a severe hail storm. In the area hit by the hail was a group of residences sided with Tempered Presdwood. Not one felt any effects of the pounding.
The Bennett Fireplace line is complete—and profitable. And Bennett dealers enjoy a steady demand, thanks to our continuous national advertising. It pays to feature Bennett.

SIMPLIFIED and STANDARDIZED
This simplified Bennett fireplace is sized for standard brick, with no cutting or fitting. It lets you offer every customer "The Perfect Fireplace." Quicker and easier to build—it's priced within the reach of all. It's a big-volume, high-margin unit—a real profit-builder for you. Count on this Bennett—the recirculating unit with most sales appeal.

BENNETT GRATES & LOG DOGS
Cat. No. A-503 Cradle Grate. Sturdy Coal or Wood Basket.
Cat. No. A-1451 Log Dogs for Heavy Logs. Protect valuable andirons. Ideal for camp or outdoor fireplace.

BENNETT Expanslip THROAT DAMPERS

BENNETT CAST-IRON DAMPER
A quality damper at competitive prices. Superior casting facilities in our foundry enable us to produce this steep slope 50° Damper, with interchangeable Rotary or Ratchet Control feature. With guaranteed steel valve (No. C-103) or cast iron valve (No. C-104).

Flexscreen® SAFETY FIREPLACE CURTAINS
The only Nationally Advertised curtain screen. Every fireplace owner is a prospect for Flexscreen. Its own best salesman, a display on your floor will increase your volume on this "quality" product. This year, the Flexscreen line includes a perfectly balanced line of Fireplace Accessories, too.

Write now to 451 Market St. for Catalog and Full Information on the COMPLETE POST-WAR BENNETT LINE
HOPE'S RESIDENCE WINDOWS represent the best in steel casement windows. Strong, economical and permanent, suitable to any type of architecture, adaptable to any construction (masonry or wood), they add greatly to the sales appeal of any home. Catalog No. 102K gives all construction details shows how builders can save money in installation. Write for it today.

**DIMENSIONS**

<table>
<thead>
<tr>
<th>JAMB (HEAD AND SILL SIMILAR)</th>
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<tbody>
<tr>
<td><strong>Screen</strong></td>
</tr>
<tr>
<td><strong>Outside</strong></td>
</tr>
<tr>
<td><strong>Roto Operator No. A90</strong></td>
</tr>
<tr>
<td><strong>Fastener No. 92</strong></td>
</tr>
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**HOPE'S WINDOWS, INC., Jamestown, N.Y.**

The finest buildings throughout the world are fitted with Hope's Windows.
HOPE'S Lok'd Bar FACTORY SASH

PIVOTED WINDOWS

COMMERCIAL PROJECTED WINDOWS

STANDARD TYPES AND SIZES

HOPE'S LOK'D BAR SASH are different from all other steel factory sash... safer for large glass areas, more resistant to shock, wear and corrosion.

EXTRA STRENGTH... Double that of ordinary sash.

LOW MAINTENANCE... No loose or applied weatherings to corrode or break away.

HEAT SAVING... Tight contacts limit air infiltration.

Hope's solid-welded construction of ventilators and Hope's integrally-rolled broad contact and weathering flanges are offered by no other pivoted or commercially projected steel windows. For complete information, write today, for Catalog No. 105L.

HOPE'S WINDOWS, INC., Jamestown, N.Y.

THE FINEST BUILDINGS THROUGHOUT THE WORLD ARE FITTED WITH HOPE'S WINDOWS

APRIL 1951
Then your building schedules will not be restricted by lack of sheet metal ducts! Here are fully automatic oil-fired wall and floor furnaces specially designed for small home installation without duct work! These self-contained units provide a highly efficient flow of warm air throughout the home. Installation is easier and quicker. Operation is entirely automatic. Patented H. C. Little electric ignition has no pilot light to waste fuel! Burner operates on exclusive LOW-TEMPERATURE CARBURATION PRINCIPLE—no motors, no fans, no moving parts of any kind to break down or need servicing!

**H. C. LITTLE OIL-FIRED WALL FURNACES**

Installed in partition wall; no ducts needed. Ideal for small homes, especially those built on concrete slabs. Provides uniform, whole-house heating automatically controlled.

65,000 BTU PER HOUR HEAT OUTPUT

**H. C. LITTLE OIL-FIRED FLOOR FURNACES**

Installed in the floor; no ducts needed. Large volume warm air discharge assures uniform temperatures. Operation is entirely automatic.

Standard Register Installation

Two sizes: 50,000 and 75,000 BTU PER HOUR HEAT OUTPUT

Dual register models available for installation under partition wall; 55,000 and 80,000 BTU PER HOUR HEAT OUTPUT.

**H. C. LITTLE SHALLOW OIL-FIRED FLOOR FURNACE**

For use where floor is unusually close to grade; no excavation needed that might collect seepage. Unit only 34" deep. Provides efficient heating throughout the home.

50,000 BTU PER HOUR HEAT OUTPUT


San Rafael, Calif.

296

**How-To-Do-It**

**How to Lay Out a Five Point Star or Pentagon**

**FIG. 1. Five point star:** Use of the steel square is recommended in laying out a "five point star" when the distance between the opposite points is given.

Measure off line AB equal to width of shape desired. Mark point C the center of line AB and draw the center line square with AB. Lay the steel square along AB with the 11-inch mark at A. From A (11 inch point) draw a straight line passing through the 8-inch mark on the tongue. Where this line crosses the center line mark point D.

Make CE equal DC.

Make AF and BG equal AB. (Both lines drawn through point E).

Join DG and DF.

If the distance between the points AB is greater than 22 inches, the line from the 11 inch mark on the blade to the 8 inch mark on the tongue must be projected until it crosses the center line. Any size five point star may be thus laid out.

**FIG. 2. Pentagon:** To lay out a pentagon or five sided figure when the distance is known from point to point:

Lay out the required distance AB for the two points. Using 3½ inches and 12 inches on the steel square draw the line AE equal in length to AB. Likewise lay out and draw line BC. On line BC, using the steel square as before, draw the line CD. Join ED, or from line AE lay out and draw the line ED. To draw five point star join every second point by straight lines.

—P. J. Slatterie, St. Thomas, Ont., Canada.

**How to Cut a Hole in Roof for a 6 Inch Pipe**

The problem confronting the builder was to cut a hole in roof for a six inch diameter pipe where it intersected a 7/8 roof pitch.

(Continued on page 298)
It's mighty hard to provide maximum comfort in homes that do not have the necessary full protection of Metal Weatherstrip to seal the cracks around windows and doors. It literally puts a blanket around them, preventing needless heat loss and discomfort.

Metal Weatherstrip pays for itself in two or three years by savings in fuel alone. Reductions in fuel cost range from 20% to 30%. In addition, it's a weather-tight defense against rain, wind, storm, snow and all moisture.

For better Metal Weatherstrip it's "smart business" to talk with anyone of the Weatherstrip Research Institute members. Suggestions and inquiries about metal weatherstrip are invited—for the benefit of all.

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Now you can tension either before or after installation. Hidalift balances offer you a choice.

1. The "L" type...

2. either the cup or "L" type by simple adjustment of the exclusive tensioning screw with screwdriver.

NO SPECIAL TOOLS NEEDED... Save installation time—expense. Both "L" and cup type attaching brackets available for your special convenience.

QUALITY PRODUCTS FOR OVER A CENTURY

HIDALIFT DIVISION

Gentlemen:
□ Send complete literature and prices on Hidalift
□ Send sample Hidalift..."L" Type...Cup Type
Please check □ Dealer □ Builder

Name: ____________________________________________
Address: __________________________________________
City: ____________________________________________Zone: ______ State: ______

APRIL 1951
To determine the profile of pipe at intersection of roof the following method was employed:

The line drawn from 12 on the short leg and 16 on the long leg of square represents the pitch of roof. With 12 as the center and with radius equal to \( \frac{3}{4} \) the diameter of the pipe draw a circle and square up from the tongue to the pitch as indicated at B-C. A-B represents one half of the short diameter, and A-C one half of the long diameter of the pipe.—Ralph C. Pries, Bettendorf, Iowa.

Correct Way to Lay Tar Paper on Roof

When laying tar or felt paper on roof, prior to nailing the composition shingles in place, it is well to be assured that water will not seep through at the joints by making a double lap. This is done by bending the paper six inches back on the strip that is already nailed and then treat the other piece similarly. The ends are then slipped one over the other as shown in the drawing above and nailed. In the event that some water would get under the shingles, due to a driving rain, this doubled lap will effectively stop rain from entering house.—Herbert E. Fey, New Braunfels, Texas
For creating beautiful interiors at moderate cost
In Homes, Apartment Buildings, Institutions, Churches, Schools, Hotels, Theatres, Clubs, Bars, Stores and other Commercial Installations

Marlite is the registered trade name for a hard, flexible, durable and waterproof plastic-finished wall and ceiling panel produced by an exclusive high-heat-bake process that permanently fixes the decorator colors and seals the surface against dirt, grease, mild alkalies and children's smudges. Masonite Duolux, the sturdy base of Marlite, has for many years provided the smooth surface, strength and resistance to heat and moisture so necessary to meet the high quality standards of Marsh Wall Products, Inc., world's largest manufacturers of plastic-finished wall panels.

QUICK FACTS ABOUT MARLITE
USES. Walls, ceilings, doors and cupboards in residential bathrooms, kitchens, utility and recreation rooms, dens and powder rooms. And every type of commercial interior, including counters, displays, display window backgrounds, elevator interiors and landing areas.

FOR NEW CONSTRUCTION OR REMODELING. Large, easy-to-handle panels cover old walls or new. Present surface need only be dry, and reasonably smooth and straight.

EASY TO WORK. Marlite is easy to cut and fit with ordinary carpenters' tools. Panels cover wide areas swiftly, put rooms back into service without delay.

EASY TO CLEAN AND MAINTAIN. Marlite's lustrous finish is as durable as that on the finest refrigerator or display case, requires only an occasional wiping with a damp cloth to restore all the sparkling beauty. Never requires refinishing, painting or redecorating. Commercial users have cut maintenance costs as much as 75%. During commercial renovating, there is never any paint odors...never a need to move out perishables. Business goes on practically uninterrupted.

WIDE RANGE OF COLORS AND PATTERNS. Among Marlite's 64 color and pattern combinations, builders find a distinctive Marlite color and pattern to suit any decorative theme...permitting modern, beautiful interiors that are both pleasing and practical, at moderate cost.

MOULDINGS FOR EVERY INTERIOR
Marsh Mouldings for any type wallboard interior bring enduring freshness to renovated rooms or brand-new installations. Aluminum Alloy and Preswood shapes include matching mouldings for the striking new Marlite Wood and Marble Patterns. In addition, Marsh Color-Matched Aluminum Mouldings match every Marlite panel color, featuring the same durable plastic finish as genuine Marlite.
Report Heat Removal
By Cooling Panels
In Rooms Of House

Substantial removal of unwanted heat from a room can be done by cooling panels—even if their temperatures are lower than the room air temperature, Charles S. Leopold, consulting engineer, of Philadelphia, told the American Society of Heating and Ventilating Engineers at the 57th annual meeting in the Bellevue-Stratford hotel recently.

This is possible because electric lights and sunlight are sources of high temperature radiant energy which is converted into thermal energy when it strikes surfaces which are at temperatures below their own, Mr. Leopold said. The cooling panels can therefore be maintained at temperatures high enough to prevent the possibility of condensation on their surfaces becoming a source of trouble, he declared.

"A large portion of the heat loads which must be removed from a building is initially in the form of radiation from either electric lights or sunlight. And this radiation has only a small direct effect on heating the air and a large effect on heating the interior surface of the building," Mr. Leopold said. "Radiation from lights and sun has a marked effect on the performance of both air cooling and panel cooling systems."

Cooling panels can be perforated to allow for sound-absorbing media above without materially affecting their thermal performance, he said, but a greater economy in the use of materials may result when only a portion of the ceiling is in the form of panels and the remainder in less expensive materials.

Exploiting the idea of removing as much energy as possible at the source led to the design of the panels in part as the reflector for a lighting fixture, he said. The performance per unit area of such a panel is higher than a normal ceiling panel since much of the radiation as well as convected and conducted heat is directly intercepted before it warms other room surfaces or the room air, Mr. Leopold declared.

FROM OUR BOOK DEPT.
NEW HOUSES FROM OLD—
A guide to the planning and practice of house remodeling for actual or potential home owners. Advice on whether or not the house is worth remodeling, how to plan needed remodeling, and how to use advantageously all modern appliances and ideas.
1948. 568 pages, illus., 6 x 9, cloth, $4.95

another builder chooses CALCINATOR!

235 RENTAL UNITS*
CALCINATOR EQUIPPED
FOR AUTOMATIC GARBAGE DISPOSAL

Benton Lefton, builder of Housemart Homes has chosen Calcinator over all other garbage disposal units for its neat, modern appearance and silent, automatic action.
Calcinator disposes of all kitchen scraps, paper and trash. No sewage or water pipe connections. Easily installed. No moving parts to require servicing. Calcinator operates on gas, bottled gas or electricity.
Try Calcinator in your own kitchen, utility room or basement. You'll agree it's every builder's ideal "selling point." Write Dept. AB for further data and specifications.

CALCINATOR DIVISION—VALLEY WELDING & BOILER CO.
BAY CITY, MICHIGAN
EASY AS PIE

2 MEASUREMENTS, 6 SCREWS, THAT'S ALL!

Whether you are installing new wood casements or replacing obsolete operators or staybars, you will appreciate the simplicity of applying Getty operators. One jamb measurement, one stool measurement, and the operator is positioned; then 6 screws—3 in the operator housing and 3 in the channel guide—and the job is complete in just a few minutes' time.

Ease of installation is but one reason why Getty operators are used on more casement windows than all other operators combined. They are handsome, precision-built units, they function smoothly, they provide years of trouble-free service.

Write for our descriptive brochure D. It contains complete information on our three types of operators (internal gear, external gear, horizontal drive) and our specialty hardware for every type of wood and metal casement.

If economy is a consideration in your new home construction, think seriously about using casement windows employing Getty operators. The hinge feature of casements is far less costly than the remote weight and cord arrangement in ordinary windows. Casements are exceedingly low in maintenance costs, too. And that's something your customers won't forget.

H. S. GETTY & Co., Inc.

3348 North 10th Street - Philadelphia 40, Pa.

APRIL 1951
Death of "Gene" Curtis
Ends Long Career in
Lumber, Millwork Fields

Eugene Judson Curtis, 66, presi-
dent of Curtis Companies Incor-
porated, Clinton, Iowa, nationally-
known woodwork manufacturer, died
Wednesday, February 28, in Hon-
olulu, Hawaii, where he and Mrs. Cur-
tis had just arrived for a vacation.
Funeral services were conducted in
Clinton, March 5, at the First Presby-
terian Church, and burial was in
Springdale cemetery.

Gene Curtis, as he was known by
his many friends and associates in the
lumber and building industry through-
out the nation, was born in Clinton,
Iowa, July 26, 1884. He was the son
of Martin Curtis, one of the founders
of Curtis Companies Incorporated,
originally established in 1866.

He grew up in the lumber business
—and had been active in the lumber
and woodwork industry during his entire
business life. He joined the Curtis
organization in 1909 and served the
business in many capacities. He was
executive vice president and director
from 1921 to 1947, when he succeeded
his brother, George Curtis, as presi-
dent. He was director of the National
Woodwork Manufacturers Associa-
tion; chairman of the board and di-
rector of McCloud River Railroad
Co., McCloud, Calif.; director and
secretary of Bald Mountain Mining
Co., Lead, S. D.; and director of the
Employers Mutuals Insurance Co. of
Wausau, Wis. He was a past director
of the National Production Authority.
In the depression years he served as
and director of
committee, lumber
code under NRA.

BUILDERS AND DEALERS! For complete information
and free samples, write today.

SEAL-ALL CLIPS

A simple sturdy clip de-
signed to interlock shin-
gle sections and prevent
raising of asphalt shin-
gle tabs. The perfect clip
for hexagonals, 3 in 1
strips and individuals
laidup Dutch Lap method.

- Made of solid copper wire—
  pliable yet strong enough to
  anchor single sections.
- Cannot rust out.
- Hammer is only tool necessary.
- Easy to handle.
- Beauty of roof unmarred.
- Perfect on repair jobs to correct
  leaky, unsightly roofs.
- Millions in use since 1935.

SEAL-ALL CLIP COMPANY
BOX 302B
FLINT 1, MICH.
7 out of 10 homes need this product now

How Brainard's new TEL-O-POST can get extra business for you

YOUR MARKET

SEVEN out of 10 homes need extra floor support—temporarily or permanently. Settling, rotted wooden posts, beams split from age, extra heavy loads on upper floors—these conditions call for Tel-O-Post—the original telescopic, all-steel, adjustable post with built-in jack. Shrinkage and settling in old and new homes can be quickly corrected.

You'll get more of this market with the Tel-O-Post because its maker—Brainard Steel—has put new, exclusive features in the Tel-O-Post... without a premium price.

1. CAP AND BASE PLATES are flat (not embossed), 3/8" thick, have a 4" x 8" surface, carry safe, usable loads of 12,500 pounds; maximum to 22,000 pounds (more than average residential use). Slotted holes in cap plate for bolting to steel beams; separate nail holes for wood beams.

2. JACK SCREW has up-ended thread; eliminates possibility of running screw completely out of safety nut. Jack screw cannot freeze—liberal coating of a non-hardening grease assures free, easy adjustments. Grease is inside post, stays free of dust, will not rub off.

3. SAFETY LOCK PIN (patented), 3/8", assures positive lock in any desired position; prevents collapse of tube under pressure.

4. COLUMN is made of heavy gauge prime steel. All parts, except jack screw and washers, are cleaned and painted with rubber-base, hard-surface gray paint—inside and out.

A SIZE FOR EVERY PURPOSE
No. 1 Post—5' to 8'4"
No. 2 Post—3'2" to 5'
No. 3 Post—1'8" to 3'
No. 4 Post—12" to 1'3"

PACKAGED TO HANDLE AND SELL
Tel-O-Post comes in bright silver carton. Most popular size, packaged, weighs 38 lbs. Complete instructions with every Tel-O-Post.

SOME OF THE MANY USES FOR TEL-O-POSTS

Corrects sag from excessive weight of heavy household goods.
Corrects sag from inadequate support at cellar stairwell.
Corrects sag from inadequate support at fireplace and chimney.
Corrects sag from weight of upper floor partitions.

Additional facts on Tel-O-Post are yours for the asking—write:

BUILDING PRODUCTS DIVISION

BRAINARD STEEL COMPANY

1414 GRISWOLD STREET • WARREN, OHIO

MANUFACTURERS OF TEL-O-POSTS, STEEL-STRONG POSTS, BRITE-LITE AND STANDARD AREAWALLS

APRIL 1951
Built-in Cooking Units

A new line of gas built-in cooking units, manufactured by the Chambers Corp., Shelbyville, Inc., includes an oven which can be built into a kitchen wall or incorporated as a part of the kitchen cabinet arrangement; and two gas burner units—completely detached from the oven—which can be built into cabinets or onto counter tops, either adjacent to the oven or in other areas of the kitchen.

PERFORATED CLAY

CHIMNEY TOPS - NON CORROSIVE, ACID-PROOF, HEAT-RESISTANT • FOR INCINERATORS, CHIMNEYS, HEATING UNITS, FIREPLACE FLUES

PERMANENT

FIREPROOF

ATTRACTIVE

Pat. Pend.

Write

The PERMA-TOP Co.
410 Shadyhill Rd.
Pittsburgh 5, Pa.

Speed-up Sanding

Cleans
Sands
Smooths
Polishes

Write for catalog.

Quality, performance and dependability are the key words for the Speed-Way Speed Sander. It is a powerful, motor driven, orbital motion finishing sander. The sander works easily and quickly in all positions. The all-steel, cast iron motor housing is protected by a special induction motor direct connected to a gear box of heavy duty. Easy to assemble, no troublesome parts. Your dealer will demonstrate the machine for you. Write for catalog.

The Prudential Insurance Company Building, Los Angeles

Adams-Rite 0161 horizontal locks are used on all the exterior "Tufflex" Libby-Owens-Ford glass doors of the new Prudential Building in Los Angeles. Welton Becket, Architect.

These locks are available with single or double bolts and 1 or 2 cylinders. The handle operates the bolts in sequence and the cylinder locks the handle.

Write for catalog.

Prudential Insurance Company Building, Los Angeles

Adams-Rite 0161 horizontal locks are used on all the exterior "Tufflex" Libby-Owens-Ford glass doors of the new Prudential Building in Los Angeles, Welton Becket, Architect.

These locks are available with single or double bolts and 1 or 2 cylinders. The handle operates the bolts in sequence and the cylinder locks the handle.

Write for catalog.
In Every Location the Real PRIZE-WINNING BASEMENTLESS HOMES

Are Built With ZONOLITE INSULATING CONCRETE

Zonolite—the concrete that insulates—makes the most efficient, trouble-free and permanent ground level floor slab ever laid!

Zonolite Floors Are Warmer, More Comfortable ... Free from Dampness

Zonolite Insulating Concrete has 16 times the insulating efficiency of ordinary concrete! It blocks condensation, cuts heat loss into the ground. Modern basementless homes built with Zonolite have added year-round comfort, cost far less to heat. No wonder more and more home buyers demand low cost Zonolite insulated floors!

Zonolite Insulated Floor Slabs Are Permanent as the Earth Itself!

Once installed, Zonolite Insulating Concrete lasts the life of the building. It cannot rot, decay or deteriorate. Investigate this way to build basementless homes that have better value, added comfort and economy through the years. Get details on Zonolite Vermiculite Concrete now.

Radiant Heating Is More Efficient, More Economical with Zonolite

Zonolite Insulating Concrete does two important jobs when used in radiant heated floor slabs. First, Zonolite prevents heat loss to the ground, keeps out cold and moisture. Second, its low heat capacity does away with “heat lag” and “over-ride,” gives instant response to thermostatic controls.

ZONOLITE COMPANY, Dept. A6-41
135 S. La Salle St., Chicago 3, Illinois

Gentlemen:

I'm interested in better, more efficient floors. Send me booklet CA-4 describing Zonolite Vermiculite Insulating Concrete right away.

Name: __________________________
Address: ________________________
City: ___________________ Zone: ______ State: ______
WEATHER-BLOC
Trade Mark Patent Applied For

Single Unit VENTILATOR FOR GLASS BLOCK PANELS

VENTILATION...Plus Beauty
WHY NOT GIVE BOTH?

WHEN PLANNING new buildings . . . or remodeling old buildings . . . be sure to get full information about WEATHER-BLOC Single Unit VENTILATOR for glass block small panels.

WIDE APPLICATION—HOMES—Kitchens, bathrooms, stairwalls, fruit cellars; STORES—window fronts, side windows, store fronts—for ventilating inside as well as outside walls or panels.

WEATHER-BLOC FEATURES—Blends with glass block. The outside presents a series of horizontal louvers, which maintain the continuity of design, eliminating a glass block. The inside offers finger tip control of ventilation with adjustable louvers. The body is stainless steel. Aluminum screen. All parts can be cleaned and replaced from inside the room. Available in three sizes of standard glass blocks.

WEATHER-BLOC MODELS—There are 3 models available. STANDARD WEATHER-BLOC with glass louvers outside and inside. UTILITY WEATHER-BLOC has stainless steel louvers outside and glass louvers inside. ECONOMY WEATHER-BLOC with stainless steel louvers outside and inside, 6 and 8 inch only.

WEATHER-BLOC takes no more time to install than single glass block. In old or newly completed glass block panels where ventilation is required, break out single glass block and replace with WEATHER-BLOC.

PURCHASE THROUGH YOUR GLASS BLOCK DEALER OR JOBBER ALSO NATIONALLY DISTRIBUTED BY WINCO DISTRIBUTING & MFG. CO., INC. 533 Bittner Street St. Louis 15, Missouri

INDUSTRY BRIEFS

New president of Swedish Crucible Steel Co., Detroit, manufacturer of Olsonite plastic, is Oscar L. Olson. He succeeds his father, the late Nels L. Olson, who established the business as a small Detroit steel foundry 41 years ago.

Formation of a company-owned subsidiary, the Dexter Lock Co., by the National Brass Co., has been announced by Lou Dexter, president of the parent firm. One of the purposes of the subsidiary, Dexter said, is to incorporate the trade name, "Dexter Locks," in the company name. An underlying objective of the subsidiary, according to Dexter, is to bring a greater division between the lock line and National Brass' general hardware line and to place greater emphasis on the 28 years' experience in lock manufacture.

Appointment of F. O. Marion as sales manager for Masonite Corp. has been announced by Eugene Holland, president. Marion succeeds the late Walter G. Stromquist whose assistant he had been for the past 14 months. Marion joined Masonite in 1936 as a dealer salesman. Prior to becoming assistant sales manager he was assistant manager of industrial sales and assistant manager of the sales engineering department. He served five years as a B-29 bombardier-navigator.

Frank J. Smith, former advertising and sales promotion manager of the Philip Carey Manufacturing Co., is the new head of the NuTone, Inc., advertising and sales promotion departments. J. Ralph Corbett, NuTone president has announced. Smith will co-ordinate sales promotion activities of the company's three regional offices in New York, Chicago and Los Angeles.

FINER FINISH SANDING AT A NEW LOW PRICE!

STRAIGHT-LINE RECIPROCATING ACTION LEAVES NO MARKS

14,400 SANDING STROKES PER MINUTE

NEW MODEL 2000 DREMEL Electric SANDER

The new Dremel Model 2000 is a fast-cutting, finish sander. It offers for the first time in the building field, a top-quality electric sander at a remarkably low price. Truly a versatile performer, it sands dry-wall joints, smooths plaster, puts a satin-like finish on doors, woodwork, siding, etc. Rugged construction, trouble-free design—plus low initial purchase and operating cost—all demand your thorough investigation. Call your supplier, or write us for details.

DREMEL MANUFACTURING CO., 2414 18th Street, RACINE, WIS.

EVERY BUILDER NEEDS . . . EVERY BUILDER CAN AFFORD THE NEW DREMEL ELECTRIC MODEL 2000 SANDER

AMERICAN BUILDER
COROAIRE DOES IT AGAIN!

New Revolutionary IN-THE-WALL HEATING SYSTEM

Exclusive patented feature — COROAIRE CAST-IRON VENTURI TUBE HEAT EXCHANGER — supplies 5 times greater heating surface — traps heat 5 to 1 unmatched efficiency and economy.

For Large and Small Housing Projects
One Unit Heats a House or Apartment
DISPLACES EXPENSIVE-TO-INSTALL DUCT SYSTEMS OR MULTIPLE INSTALLATIONS OF ORDINARY FLOOR, WALL, RADIANT, CIRCULATING HEATERS.

The new COROAIRE 90WM IN-THE-WALL Heating System
... AGA approved ... acclaimed by authorities and experts as the perfect answer to 3½ to 7 room, one floor, private, public, defense and military projects homes or apartments.

Completely automatic gas heat — forced circulation — humidification — filtration.
NO COSTLY DUCT WORK ... NO HARD-TO-OBTAIN SHEET METAL. Finished to blend into any decorative scheme. Installed cost less than a refrigerator or television set.

THE COROAIRE HEATER CORPORATION
Hi-Boy Furnaces . . . Hot Boy Space Heaters
Dept. PDM, 1422 Euclid Avenue, Cleveland 15, Ohio

APRIL 1951
Stainless Steel
Now limited to essential production

Because of the high content of nickel and chromium in stainless steel, the National Production Authority has restricted the use of stainless steel for residential purposes.

We know that this ruling works a hardship on the many building and plumbing contractors and suppliers who have, for many years, depended upon JUST Line Stainless Steel equipment for kitchen sinks, cabinet tops, sink bowls, etc., for residential construction.

We, here at the JUST MANUFACTURING COMPANY, are proud to have been selected as one of the firms to supply stainless steel equipment to our Government and its institutions, as well as laboratories, hospitals and schools, and industrial plants engaged in essential defense production.

And, because we have the facilities, the manpower and the “know-how,” we are able to serve our Government and these institutions efficiently and speedily.

We regret that, because of this emergency, we are unable to serve you right now. But we look forward to the day—which, we hope, is not far off—when we will again be able to supply your residential needs.

INDUSTRY BRIEFS

F. R. Weddington has been named general manager of the Wholesale Division of Wm. Cameron & Co., G. H. Zimmerman, president, has announced. He succeeds Frank Stevens who recently resigned as vice president and general manager of the division after 40 years with the company. Sales manager of the firm since 1937 after joining it in 1919, Weddington is a member of the board of directors. He is active in industry organizations, currently president of the American Wood Window Institute.

Succeeding Weddington as sales manager is Coleman Dever, with the Cameron company since 1923 and assistant sales manager since 1937. Also announced by the company was the appointment of James W. Collins, formerly of Duff, Anderson and Clark, Chicago, as merchandising consultant.

The Westinghouse Electric Corp. has been awarded the Merit Award by the American Society of Industrial Engineers for leadership in research, engineering, design and manufacturing in the home laundry equipment field. The award was made on the Westinghouse Studio-One television hour by Robert L. Crinnian, ASIE president, and accepted for the company by John H. Ashbaugh, vice president in charge of the Electric Appliance Division.

Additional Westinghouse news, announced by President Gwilyn A. Price, is the election of four new vice presidents. They are Tomlinson Fort, who is manager of the headquarters sales department at Pittsburgh, Pa.; L. W. McLeod, southwestern district manager, St. Louis; Emery W. Loomis, middle Atlantic district manager, Philadelphia; and L. E. Lynde, who has been New England district manager at Boston, but now will head the company’s Washington, D. C., government office.

Marking the 85th anniversary of the founding of the firm in 1931, Curtis Companies Inc. will conduct an extensive advertising campaign for Curtis Woodwork and Silentite Windows, L. H. Ramsey, general sales manager.

(Continued on page 310)
Cummins Builders Special

POWER SAW GIVES YOU ALL THIS FOR

Only

$69.50

Model 700

WEIGHS ONLY
10 POUNDS

BEVEL ADJUSTMENT IS QUICK AND EASY. Knurled knob in convenient position, adjusts from 0° to 45°. Locks securely to hold adjustment accurately.

BASE ADJUSTS VERTICALLY FOR DEPTH OF CUT. Easy to use adjusting knob at top of saw guard. Adjust base accurately from 1/4" to 2 1/4".

CUTS 3 IN.
DRESSED LUMBER
AT 45° WITH
BLADE AND
POWER TO SPARE.

SEE YOUR DEALER TODAY!

PORTABLE TOOLS

DIVISION OF CUMMINS - CHICAGO CORPORATION

4740 NORTH RAVENSWOOD AVENUE - CHICAGO 40, ILLINOIS

ASK YOUR JOBBER... ASK YOUR JOBBER... ASK YOUR JOBBER... ASK
INDUSTRY BRIEFS
(Continued from page 308)

reports. Consumer full-color advertising will start in April, with a strong trade paper campaign backing up the advertising in general consumer publications, he said.

* * * * *

Three new directors have been elected and a new vice chairman and a new president appointed in a re-organization of executive responsibilities in Johns-Manville Corp. Clifford F. Rassweiler is director and vice chairman of the board, a newly-created office, with charge of the new planning board. President and director is L. M. Cassidy, who joined the firm in 1926. He succeeds R. W. Lea who retired in January, 1951. A. R. Fisher, vice president for production and general manager of the asbestos fibre division, has been named a director.

* * * * *

Johns-Manville vice-presidential appointments announced were: Harold R. Berlin, general manager of the building products division; J. A. O'Brien, general manager of the J-M Building Products Division; and A. S. Eisenbast, general manager of the J-M Celite Division.

* * * * *

J. H. Giles was recently named executive vice president and director of the Reserve Supply Company, St. Paul, Minn. Giles joined Reserve Supply several years ago when he retired from his own business as a building material manufacturers representative. Prior to that he was for years assistant sales manager of Insulite.

* * * * *

Edward B. Wilber has been elected president of the American Lumber and Treating Co., succeeding J. F. Linthicum. Wilber was associated with the Aluminum Co. of America for 30 years before taking his new post, and was last New York district sales manager. Linthicum, retiring from active management after 14 years with the lumber-treating firm, will continue as a director.

SHARPEN and GUM
All Types of Circular Saws YOURSELF
Cheaper... Faster... Easier... and With Greater Precision

Now, you can keep your own saws sharp for cleaner, faster cuts. Only fixture of its kind. Precision-built for precision sharpening. Just mount on base for practical, permanent, self-contained fixture ready for instant use. Take the mystery and expense out of sharpening. Send check or money order... money-back guarantee... nothing to lose... shipped prepaid with complete, clear operating instructions.

MODEL 135 Fixture (illustrated) only $29.95 for 1 1/2" to 12" dia. Other models up to 20".
Tables tilt either side to sharpen angular faces.
MODEL 400 Saw Set only $9.95
MODEL 300-A Dust Proof Ball Bearing Grinding Wheel Stand with "V" Belt only $17.95.
MODEL 135 BS Band and Chain Saw Attachment only $9.95
Prices subject to change.

TREYCO PRODUCTS
Dept. AB-1-1
264 Hartford Avenue, Kenmore 23, N. Y.

CONTRACTORS—save money!
Mix plaster and mortar in a MULLER 3 FOOT MIXER

- An investment that will give you better plaster and mortar at far lower costs than old hand methods. Ideal for both inside and outside use. Holds full bag batch of most mixtures.

PRICE $300 (with electric motor)
$320 (with air-cooled engine)

FOR Metuchen, N. J.
Also available in 6 (2 models), 9 and 12 cubic foot sizes
Write for name of nearest distributor.

MULLER MACHINERY COMPANY, Inc.
Metuchen 10, N. J. Cable Address MULMIX

AMERICAN BUILDER
Election of Judson S. Sayre, general manager of the Bendix Home Appliances Division of Avco Manufacturing Corp., as a vice president of the company, has been announced by Victor Emanuel, president. Sayre formerly was president of Bendix Home Appliances, Inc., which recently was acquired by Avco.

The Richkraft Co., Chicago, announces the appointment of Herman L. Smith of Cleveland as general sales manager.

In a reorganization of its advertising and public relations departments, The Upson Co. has named Averill E. Calver, advertising manager for the past 10 years, director of advertising and public relations. Calver's new associates are Wallace D. Soderholm, former newspaperman and war correspondent, who will handle news copy, and J. Douglas Swick, former assistant store manager, who will assist in the advertising program.

F. A. Hopp has recently been promoted to publicity manager of the Delta Power Tool Division of Rockwell Manufacturing Co. Hopp has been associated with Delta for past 10 years, specializing in advertising and sales promotion.

The General Electric Co. Lighting Institute at Nela Park, Cleveland, has been established as a separate division of the company and Henry J. Chanon of Cleveland has been appointed its first manager. The Institute has been an activity of the Engineering Division. The reorganization was announced by Fred F. Harroff, General Electric vice president and general manager of the lamp department.

Another General Electric announcement, by Ralph J. Cordiner, president, is the election of three executive vice presidents to fill newly-created posts. They are Henry V. Erlen, Schenectady, N. Y., formerly vice president and general manager of the Apparatus Department; Hardage L. Andrews, Bridgeport, Conn., formerly vice president and general manager of the Appliance and Merchandise Department; and Roy W. Johnson, N. Y., former vice president and general manager of the Affiliated Manufacturing Companies Department.
INDUSTRY BRIEFS

Two new vice presidents, an assistant vice president and an assistant treasurer have been elected by the C. Hager and Sons Hinge Manufacturing Co., the firm's board of directors has announced.

Named vice president and chief engineer was Joseph Hyland Stevens, formerly chief engineer, Charles M. Jones, formerly sales manager, was promoted to vice president and sales manager. August W. and Charles C. Hager, fourth generation of their family to hold executive positions in the 101 year old St. Louis company, were elected assistant vice president and assistant treasurer, respectively.

Aluminum Co. of America has announced it will build a new alumina plant near Bauxite, Ark. Designed to process low-grade bauxite ore, the new facilities will increase by 50 per cent the amount of alumina now being produced by the company, the announcement said. Alumina is the refined ore from which basic aluminum is obtained by the smelting process.

NAILS

BRIGHT COMMON WIRE

NAILS, made of finest quality steel wire, exactly according to rigid American specifications. Flat round head, ordinary diamond point, rustless, prime new quality. 100# net kegs. Priced competitively. Immediate and future shipment from New York and other seaports.

In addition to the above we are importing regularly the following items and would be glad to quote upon request:

CEMENT
Blued Sterilized Plasterboard Nails
Galvanized and Black Pipe
Galvanized Field Fencing
Galvanized Steel Sheets
Galvanized Barbed Wire, Iowa Type
Galvanized Field Fencing
Concrete Reinforcing Bars
Other Miscellaneous Steel Items

RICHARD J. BAMBRICK

File This Gates

A Ready-Made, Combination Concrete Form Tie and Spreader...

CONCRETE FORM TIES

Some Areas
Still Available
For Dealers
Immediate Delivery

* USERS REPORT UP TO 60% SAVINGS WITH THIS NEW METHOD!

YOU CAN CUT BUILDING COSTS AND SAVE...

- TIME by cutting down labor necessary on hand-tied wire form ties
- EFFORT because of ease in erecting and tearing down forms built with the Gates Concrete Form Tie
- MATERIAL because of fewer number of waps needed and the excellent recovery condition of the lumber
- PATIENCE by using a simple, practically fool-proof method
- MONEY because of lower costs in all phases of concrete forming with Gates Concrete Form Tie
- RISK because Gates Concrete Form Ties are tested and proven to do the job better than any other method

In Denver, Colorado, 80% of all home builders are using Gates Form Ties.

Gates & Sons, Inc.

THE OHIO HYDRATE & SUPPLY COMPANY
Woodville, Ohio
"I haul
A 4-ton load of tanks
For less than 4¢ a mile!"
— says KENNETH C. ROTHROCK,
Contractor, St. Cloud, Florida

Rothrock drove a 1948 Ford F-6 Truck in Ford's nationwide Economy Run. He is one of 5,000 truck owners who rolled up over 50-million miles in this demonstration of Ford economy.

Contractor Rothrock manufactures septic tanks. He hauls these heavy cement and steel tanks on his platform truck. He kept daily records of his truck running costs during the Economy Run, and says—"In 6 months I traveled 6,760 miles, with an average load of 9,058 lbs., had no repairs, made 749 stops. I spent a total of $255.87 for gas, oil, and maintenance — giving me a running cost of only 3.78 cents per mile."

Like others who rely on Ford for low running cost, you'll like the money-saving truck service available at Ford Dealers' everywhere. For more facts on the trucks that last longer and save you money every mile — mail the attached coupon.

This new Ford F-6 for '51 offers a choice of 3 economy-proved engines. There's a 95-h.p. Six, 100-h.p. V-8 or 110-h.p. Big Six. And remember, whatever you haul there's an economical Ford Truck to do it. Over 180 models to choose from—all featuring Power Pilot Economy.

FORD TRUCKING COSTS LESS because FORD TRUCKS LAST LONGER!

Using latest registration data on 7,318,000 trucks, life insurance experts prove Ford Trucks last longer!
INDUSTRY BRIEFS

The purchase of Armstrong-Whitworth and Co., Pneumatic Tools, Ltd., Gateshead-on-Tyne, England, by Independent Pneumatic Tool Co., Aurora, Ill., manufacturers of Thor portable tools, has been announced by Neil C. Hurley, Jr., independent president. The English plant, which has 750 employees, will be operated as a subsidiary, with Robert G. Faverty, former manager of Chicago and Detroit Thor branches, as managing director.

An extensive modernization and expansion program amounting to approximately $1,000,000 is now in progress at the Pensacola, Fla., fiberboard plant of Armstrong Cork Co. The program, scheduled for completion in late 1951, primarily involves changes in the production line and purchase of new machinery.

The election of Harold C. Ingersoll as a vice president of Borg-Warner Corp. has been announced. In addition to his new office, Ingersoll will retain the presidency of the corporation's Ingersoll Steel Division at Newcastle, Ind. He is also a member of the Borg-Warner board of directors.

STOP HEAT LOSS with KORK-PAK...the INSULATING VAPOR SEAL

- Non-Extruding
- Water-Proof
- Greater Resiliency
- Low Material Cost

Install KORK-PAK at the slab-footing joint to prevent heat loss through concrete floor slabs in basementless houses and structure on grade—get maximum joint filling efficiency PLUS the highest insulating factor of any similar material. KORK-PAK's low cost and easy handling make it ideal for many applications such as Bill Vapor Seal, Glass Building Block Seal, Joint Filler, etc., in every type of construction.

Write for complete details, illustrated circular and samples.

SERVICISED PRODUCTS CORP.
6051 W. 65th ST., CHICAGO 38, ILL.

COST-CUTTING PORTABLE ELEVATOR AMAZES BUILDERS - CONTRACTORS

Biggest news in material handling for contractors and builders is the new, low-cost, portable MULKEY ELEVATOR. Custom built and tailored to the requirements of the building trades... handles concrete blocks, bricks, mortar, sand, dirt, lumber, roofing, insulation, sacks, boxes, with ease. Strong as a bridge, yet one man handles and operates... easily traveled up to 35 miles per hour. Has patent-design clutch and brake assembly. Basic length, 24 ft., 17½ ft. maximum lift, 8 ft. extension available. Balanced up to 40 ft., maximum extension lift 28 ft. One contractor reports... "my MULKEY ELEVATOR keeps 10 men constantly supplied with brick and mortar... it has paid for itself many times over." Write now for FREE LITERATURE AND PRICES!

SAM MULKEY CO. • 1621 Locust • Dept. AB-5 • Kansas City, Mo.
"Why waste heat up the chimney when a Heatilator Fireplace costs no more?"

... asks

MICHAEL DANITZ,
prominent Buffalo building contractor.

"The people I built this house for told me they would use the fireplace a lot," says Mr. Danitz. "So I built it around a Heatilator* Fireplace unit. It didn't cost any more than a conventional fireplace that wastes most of the heat up the chimney. That's because it includes all the vital fireplace parts in one unit. There were no extra parts to buy or build."

Smokeless...Trouble-free. The Heatilator unit is a scientifically designed, steel form, complete from floor to flue, around which any style fireplace can easily be built. It assures correct construction, and eliminates the common causes of smoking. It draws in air from floor level, heats it and circulates it to every corner of the room. A Heatilator fireplace gives all the heat necessary on cool spring and fall days, cuts dollars from the owner's heating bill.

The Heatilator name is known and trusted because it's been proved in countless thousands of homes and camps all over America. It's the mark of quality in the homes you build.

HEATILATOR FIREPLACE
Sells Houses FASTER!

Write today for complete specifications. Heatilator Fireplaces are sold by all leading building material dealers. Accept no substitute. Look for the name Heatilator on the dome and on the damper handle. Heatilator, Inc., 944 E. Brighton Ave., Syracuse 5, N. Y.

*Heatilator is the registered trademark of Heatilator, Inc.
American Builder
Directory Section

THIS is the first issue of what will be a regular feature of the American Builder—an annual directory of building products and equipment. This directory is the most complete index published exclusively for builders, contractors, architects and building material retailers. In it, the reader will find names of building products, their manufacturers and their brand names in these three sections—

Section I—an alphabetical list of building products and equipment and their manufacturers; Section II—an alphabetical list of brand names identified with the names of manufacturers; Section III—an alphabetical list of manufacturers of building products and equipment with addresses.

In addition, service organizations are prepared to render aid to the industry and to furnish helpful information on special problems are listed under appropriate titles.

This directory is designed to serve as a year 'round reference manual for the builder, contractor, architect and dealer. Although every effort has been made to make it as accurate as possible, the American Builder cannot be responsible for changes in names, manufacturers and other discrepancies.

The Names of Manufacturers With Advertisements In This Issue Appear In Boldface Type in the List of Manufacturers' Names and Addresses Starting on Page D-67

SECTION I
Alphabetical list of Building Products and Equipment Manufacturers

In this section, 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 readers of the American Builder are well acquainted with the terms employed in the building industry and can lead themselves to the items in the directory. The principal proper nouns of descriptive 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 and service organizations. The addresses of these manufacturers and service organizations are listed in alphabetical order in Section III, starting on page D-67.

As an example, suppose that Mr. Jones wants to find the name and address of a manufacturer of crow bars. First, he will turn to the heading “Bars, crow and pinch” in Section I. Here he will find listed the names of nine crow bar manufacturers among which he may select the Proto Tool Co. Turning to Section III, he will find the address of the company (2209 Santa Fe, Los Angeles, Calif.) in its alphabetical order under the name Proto Tool Co.
<table>
<thead>
<tr>
<th>Causeway Products Co</th>
<th>Bridgeport Steel Co</th>
</tr>
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<tbody>
<tr>
<td>Corning Glass Works</td>
<td>Camillus Mfg Co</td>
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<td>Cortland Mfg Co</td>
<td>Croydon Mfg Co</td>
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<tr>
<td>Courtaulds Co</td>
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<tr>
<td>Crown Mfg Co</td>
<td>Eastman Kodak Co</td>
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<tr>
<td>Crystal Glass Corp</td>
<td>E. G. Barnes Co</td>
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<tr>
<td>Cubic Metal Co</td>
<td>Equitable Metals Co</td>
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<tr>
<td>Currenco Mfg Co</td>
<td>Fargen Mfg Co</td>
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<tr>
<td>Culver Mfg Co</td>
<td>Farrel Mfg Co</td>
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<tr>
<td>Curry Products Co</td>
<td>Ferris Mfg Co</td>
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<tr>
<td>Cyrus Mfg Co</td>
<td>Foster Mfg Co</td>
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</tbody>
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# List of Manufacturers' Names With Complete Addresses Starts on Page D-67

<table>
<thead>
<tr>
<th>CHUTES, DUST</th>
<th>Gabriel Steel Co</th>
<th>Miami Cabinet Diy Carey (Philip) Mfg Co</th>
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<td>Kluegel (Ernest) &amp; Co</td>
<td>Haslett Chute &amp; Conveyor Co</td>
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<td></td>
<td>Majestic Co</td>
<td>Klauer Mfg Co</td>
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<td>Industrial Iron Works</td>
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<td></td>
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<td>Klauser Mfg Co</td>
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<td>Longines Engineering Works</td>
<td>Malmoite Co</td>
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<td></td>
<td>Peerless Mfg Co</td>
<td>Richmond Engineering Co</td>
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<td></td>
<td>Veno Steel Products Co</td>
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<td>Majestic Co</td>
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<td>Miami Cabinet Diy Carey (Phillips) Mfg Co</td>
</tr>
<tr>
<td>CHUTES, BUBBISH, STEEL</td>
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<td>CIRCULATORS, VENTED WALL</td>
<td>Pioneer Water Heater Co</td>
<td>Pioneer Furnace Div</td>
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<tr>
<td>CLAMPS, &quot;C&quot;</td>
<td>Adjustable Clamp Co</td>
<td>Armstrong Brothers Tool Co</td>
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<tr>
<td></td>
<td>Black Metal Tool Co</td>
<td>Carpenter &amp; Patterson Inc</td>
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<td></td>
<td>Cincinnati Tool Co</td>
<td>Handy Mfg Co</td>
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<td></td>
<td>Littledell Hardware &amp; Foundry Co</td>
<td>Sargent &amp; Co</td>
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<td>Adjustable Clamp Co</td>
<td>Black Brothers Co</td>
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<tr>
<td></td>
<td>Cincinnati Tool Co</td>
<td>Cortland Refractories Co</td>
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<td>Huntsville Mfg Co</td>
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<td></td>
<td>Malleable Iron Foundry Co</td>
<td>Phoenix Hardware Mfg Co</td>
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<td>Fischer &amp; Hayes Rope &amp; Steel Co</td>
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<td>National Mfg &amp; Supply Corp</td>
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<td>Construction Materials Div</td>
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<td>Hartford Mfg Co</td>
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<td>Haslett Chute &amp; Conveyor Co</td>
<td>Klauser Mfg Co</td>
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<td>Klauser Mfg Co</td>
<td>Malmoite Co</td>
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<td>Malleable Iron Foundry Co</td>
<td>National Mfg &amp; Supply Corp</td>
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<tr>
<td>CLAY, FIRE</td>
<td>Ames Brick Co</td>
<td>Adil Clay Products Co</td>
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<td>Adirondack Brick Co</td>
<td>Caledonia Pipe Co</td>
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<td>Chicago Fire Brick Co</td>
<td>Chicago Fire Brick Co</td>
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<td>Clark Furnace Products Co</td>
<td>Donley Brothers Co</td>
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<td></td>
<td>Evans Pipe Co</td>
<td>General Electric Co</td>
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<td>General Metal Products Co</td>
<td>Gladding-Melton &amp; Co</td>
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<tr>
<td></td>
<td>Gramco (A) Mfg Co</td>
<td>Harrison-Walter Refractories Co</td>
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<tr>
<td></td>
<td>Houston Fire Brick Co</td>
<td></td>
</tr>
</tbody>
</table>
## List of Manufacturers' Names With Complete Addresses Starts on Page D-67

### AMERICAN BUILDER
List of Manufacturers' Names With Complete Addresses Starts on Page D-67
List of Manufacturers' Names With Complete Addresses Starts on Page D-67
<table>
<thead>
<tr>
<th>Product</th>
<th>Companies</th>
</tr>
</thead>
</table>
| Doors, Access       | Actas Plywood & Veneer Co  
                    | Cerr Adams & Collier Co  
                    | Cole Mfg Co  
                    | Coastal Metal Door Co  
                    | Decorable Iron & Steel Co  
                    | Durley Brothers Co  
                    | Farley & Loetscher Mfg Co  
                    | Fyen & Sons  
                    | Hotel Mfg Co  
                    | Industrial Metal Works  
                    | International Door Mfg Co  
                    | Majestic Co  
                    | Minature Mfg Co (Philadelphia) Mfg Co  
                    | Morgan Co  
                    | Rock Island Millwork Co  
                    | Standard Steel Cabinet Co  
                    | United States Hardware Inc  
                    | Veneer Co Building Specialties Div  
                    | Western Foundry Co  |
| Doors, Asp.        | Bennett-Ireland Co  
                    | Butte Line Hardware Co  
                    | Copeo Steel & Engineering Co  
                    | Count, I & W Co  
                    | Frantz Mfg Co  
                    | Georgia-Pacific Plywood & Lumber Co  
                    | Haskelite Mfg Corp  
                    | Farley & Loetscher Mfg Co  
                    | Fiddes-Moore & Co  
                    | Marquart Millwork Co  
                    | Posters Mfg Co  
                    | Present Door Co  
                    | Veneer Co Building Specialties Div  
                    | Wheeling Corrugating Co  
| Doors, Ash Pit      | Rennett-Ireland Co  
                    | Bostwick Steel Lath Co  
                    | Copeo Steel & Engineering Co  
                    | Covert (HW) Co  
                    | Heatilator Co  
                    | Donley Brothers  
                    | Industrial Iron Works  
                    | Ireland Steel Products Co  
                    | Kiewit Mfg Co  
                    | American Plywood Corp  
                    | Angel Novelty Co  
                    | Buffalo Lumber & Mfg Co  
                    | Burton Mfg Co  
                    | Cail Adams & Collier Co  
                    | Collins Mfg Co  
                    | Didion Mfg Co  
                    | Fidger & Stove Mfg Co  
                    | Karien Mfg Co  
                    | Kilgore Mfg Co  
                    | Lane Bros  
                    | Letourneau Door Mfg Co  
                    | Millwork Co  
                    | Monroe Mfg Co  
                    | Muehleisen Bros  
                    | Muriel Co  
| Doors, Asp.        | Rennett-Ireland Co  
                    | Bostwick Steel Lath Co  
                    | Copeo Steel & Engineering Co  
                    | Covert (HW) Co  
                    | Heatilator Co  
                    | Donley Brothers  
                    | Industrial Iron Works  
                    | Ireland Steel Products Co  
                    | Kiewit Mfg Co  
                    | American Plywood Corp  
                    | Angel Novelty Co  
                    | Buffalo Lumber & Mfg Co  
                    | Burton Mfg Co  
                    | Cail Adams & Collier Co  
                    | Collins Mfg Co  
                    | Didion Mfg Co  
                    | Fidger & Stove Mfg Co  
                    | Karien Mfg Co  
                    | Kilgore Mfg Co  
                    | Lane Bros  
                    | Letourneau Door Mfg Co  
                    | Millwork Co  
                    | Monroe Mfg Co  
                    | Muehleisen Bros  
                    | Muriel Co  

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American Builder
| FURNACES, CHIMNEY | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, COAL | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, CONVOLUTED, CARBON, OIL | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, FLOOR | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, FORCED AIR | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, FORGED | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, OIL FIRED | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, SUSPENDED | Americas File & Packing Corp | Homestead Packing Corp |
| FURNACES, WALL | Americas File & Packing Corp | Homestead Packing Corp |
| FURNITURE, BUILT-IN | Americas File & Packing Corp | Homestead Packing Corp |
| FURNITURE, OUTDOOR | Americas File & Packing Corp | Homestead Packing Corp |
| FUSIBLES, ELECTRIC, ALL TYPES | Americas File & Packing Corp | Homestead Packing Corp |
| GARAGES, PREFABRICATED | Americas File & Packing Corp | Homestead Packing Corp |
| GAS, BOTTLED | Americas File & Packing Corp | Homestead Packing Corp |
| GASKETS, SEWER PIPE | Americas File & Packing Corp | Homestead Packing Corp |
| GATES, FARM | Americas File & Packing Corp | Homestead Packing Corp |
| GATES, IRON, FOLDING | Americas File & Packing Corp | Homestead Packing Corp |

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GLASS SUBSTITUTE
Allen Brothers Inc
Arten Corp
Celanese Corp of America Plastic Div
Clark Wire & Supply Co
De Paul (E J) & Nemerow & Co
Glaziers' Mill Glass Co
Hendel (C B) & Mill Glass Co
Inconel Co
S &t-Lite Mill Co
Tutor Brothers
Warp Brothers

GLASS, WINDOW
American Window Glass Co
Curtis-Pruitt Glass Co
Fleming Glass Co
Libby-Owens-Ford Glass Co
Pittsburgh Plate Glass Co
Rock Island Millworks Co

GLASS, WINDOW, WIRE
Bache (Jenron) & Co
Blue Ridge Glass Corp
Calk-Butler Industries Inc
Country-Pruitt Glass Co
Petersen Glass Co
Hageman Co Inc
Harding Glass Co
Howe Glass & Door Co
Libby-Owens-Ford Glass Co
Minneapolis Wire Glass Co
National Mirror Works
Nord Glass Inc
Pittsburgh Wire Glass Co
Pittsburgh Plate Glass Co
Rochester Glass Works

GLAZING, TRANSPARENT PLASTIC
Aerov Corp
Libby-Owens-Ford Glass Div Biddle Glass Div

GLOVES, INDUSTRIAL
American Optical Co Safety Div
Bosco Mfg Co
Broadway Rubber Mfg Co
Chippewa Mfg Co
Cupello Co
DeWitt (C B) & Brothers Inc
Medium Glass Corp
Parker Products Inc
Weiss Products Co

GLOVE, ANIMAL
Cromwell Products Co
Parker (H B) Co

GLOUE, ANIMAL, DRY
Amour Glove Works
Commercial Glove Co
Cody-Parkett Co
Kenwood Glove Mfg Co
Nicholson & Co
Standard Glove & Glue Inc
Tatum Industries Inc

GLOUE, ANIMAL, RIDE, LIQUID
Franklin Glove Co

GLOUE, CASEIN
Artec Pyroform & Venzer Co
American Cyanamid Co
Borden Co Chemical Div
 Consumers' Glue Co
Dayville Paper Corp
Piddo-Moore & Co
Franklin Glove Co
Hendel (C B) & Brothers Inc
Lentz Glue & Mill Co
LePetit's Inc

GLOUE, COLD WATER
Artec Pyroform & Venzer Co
Borden Co Chemical Div
Consumers' Glue Co
Franklin Glove Co
Hendel (C B) & Mill Co
Hendel (C B) & Brothers Inc
Lentz Glue & Mill Co
LePetit's Inc
Mengel Company Inc
Monte Waterproof Glue Co
Monza Chemical Co
National Carbon Sales
Parker Products Inc
Perkins Glove Co
Tatum Industries Inc
U & S Milliget Pyroform Inc
U & S Pyroform Corp

GLOUE, FISH
Consumers Glue Co
Cromwell Products Co
Faller (R B) Co
Hendel (C B) & Brothers Inc
LePetit's Inc

GLOUE, LIQUID
Boody Bros Chemical Div
Cortez Ed Co
Franklin Glove Co
International Glue Co
Kennedy Glue Co
LePetit's Inc

GLOUE, RESIN
Aetna Plywood & Veneer Co
Consumers Glue Co
Fiddes-Moore & Co
Franklin Glove Co
Hendel (C B) & Brothers Inc
LePage's Inc

GLOUE, WATERPROOF
Boody Bros Chemical Div
Cortez Ed Co
Franklin Glove Co

GLOUE, ZINC
Artcraft Ornamental Iron Co
Cincinnati Iron Fense Co Inc
Boody Bros Chemical Div
Boody Bros Chemical Inc

GLOUES, METAL
Artcraft Ornamental Iron Co
Cincinnati Iron Fense Co Inc

GLOUES, RADIATOR
American Radiator & Standard Sanitary Corp
Curtis Co

GLOUES, ROLLING, STEEL
Cornwell Rolling Door Works

GLOUES, SCREEN DOOR
Air Control Products Inc
Allen Rio Products

GLOUES, WINDOW
Aluminum Window Corp
Muller Window Corp

Grates, Ventilators
Kaweco Mill Co

Gratings
Adams Co
Air Control Products Inc

Grates, Fireplace
Bennett-Indiana Inc

Grates, Outdoor Cooking
Bower Furnace & Foundry Corp

Grilles, Radiator
American Radiator & Standard Sanitary Corp

Grilles, Screen Door
Air Control Products Inc

Grilles, Window
Aluminum Window Corp

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AMERICAN BUILDER

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PAINTS, PLASTER
Sicca Soya Paint Co Inc Tamms Industries Inc
Lowebco Ine
General Electric Co Chemical Dept Plasti-Kote Ine
U S Gypsum Co
PAINTS, PLASTIC
Cello Plastic Chemical Co
PAINTS, RUBBER BASE
PAINTS, SYNTHETIC RESIN
Amrote Paint Co Inc
Banaco Varnish Co
Cello Plastic Chemical Co
Irene & Raynolds Inc
Du Pont Co (E 1) de Nemours & Co Inc
Elliot Paint & Varnish Co
Gibson Co
Hers (CA) Co Inc
Illinois Broom Powder Co
Lowe Brothers Co
Martin-Selector Co
Mizuno Artificial Corp
National Gypsum Co
O'Brien Co
Pabco Products Inc
Pittsburgh Paint Co
Ravenco Co
Shawinigan Co
U S Gypsum Co
Vaughan & Co Inc
Varcrete Co
Wesco Waterpaints Inc
Willett & Williams Co
PAINTS, TEXTURE
Borlot Co
Tannus Industries Inc
U S Gypsum Co
Wesco Waterpaints Inc
PANELS, COVE, PLYWOOD
Acron Plywood & Veneer Co
Georgia Wood & Lameter Co
U S Plywood Corp
PANELS, CLASS, FIBER, CORRUGATED
Aldrete Co of America
Corrufol Co
P-Flex-Glas Corp
PANELS, INTERIOR
Allied Spandex Co
France Building Products
PANELS, LAMINATED
Owen-Illinois Glass Co Kaylo Div
PANELS, LOG CASINGS, PRE-FAB
Fenco Co of America
Bostich Furniture Co Inc
PANELS, PLASTIC
Aldrete Co of America
PANELS, PRE-FAB/EXCLUDE
Corpus-Missouri Co
PANELS, PREFABRICATED WALL
American Builtco Co
Elliot Bay Mill Co
Malone Co
PANELS, STEEL
Martin-Parry Corp
PAINTWORK, HARDWOOD
American Plywood Corp
Bradley Lumber Co Inc
Carr Adams & Mulline Co
cCurtis Co Inc
Payler & Lancaster Lumber Co
Parkay-Crestwood Lumber Co
Presco Lumber Inc
Presto-Weaver Building Corp
Georgia-Pacific Plywood & Lameter Co
Mengel Co
Pondexter Pine Woodwork
Biddle Pudlo Inc
Twin City Hardwood Lumber Co
PAINTWORK, SOFTWOOD
Acros Plywood & Veneer Co
Allied Selectwood Co
Carr Adams & Mulline Co
Curtis Co Inc
Dury & Lessor Co Inc
Presco-Crestwood Lumber Co
Presco Lumber Inc
Presto-Weaver Building Corp
Georgia-Pacific Plywood & Lameter Co
Mengel Co
Pondexter Pine Woodwork
Biddle Pudlo Inc
Twin City Hardwood Lumber Co
PINE, COTTON
Chocc Drain & Copper Co
PIPE, ASBESTOS CEMENT
Armstrong Cork Co Building Materials Div
John-Marcusville Corp
Kendall & Mathisons Co
Smith & Kanzler Co
Standard Asbestos Mfg Co
Universal Sewer Pipe Co
PIPE, CAST IRON, SOIL & FITTINGS
Alliant Bell Pipe Co
Brooks Corporation
Cranco Co
Essential Irons Works
Tora (A) Mfg Co
PIPE, CLAY, SEWER
Aneer Sewer Pipe Co
American Vitrified Products Co
Barber & Pilling Co
California Pottery Co
Camden Sewer Pipe Co
Clark (E J) & Sons Div Pacific Clay Products
Clay Cistern Pipe Co
Clay Products Association
Columbiana Pipe Co
Deky Clay Products Co
Dunlop Sewer Pipe & Clay Co
Easley Pipe Co
Edwards & Rambor Sewer Pipe Co
Iowa Pipe & Tile Co
Jercimo Clay Co
Lamb Clay & Son Co
Lambson Sewer Pipe & Cistern Co
Mary's Clay Products Co
Menard Drainage Co
Momen Terra-Cotta Co
Owens-Corning Sewer Pipe Corp
Randall Clay Products Co
Ohio Clay Mfg Co
Washington Brick & Lime Co
When & Co Sutter & Son Co
PIPE, CONDUCTOR, EAVES TOUGH
Alabama Metal Lath Co
Amer (W B) Co
Berger Mfg Div Republic Steel Corp
Carroge-Ellipsa Steel Corp
Corn Steel Products Corp
Chase Drain & Copper Co
Edward Mfg Co
Hosking (C G) Co
Hilltop Manufacturing Co
Kingston Industries Co
National Gypsum Co
WASHINGTON BRICK & LIME CO
When & Co Sutter & Son Co
White Hall Sewer Pipe & Stoneware Co
PIPE, CONDUCTOR, RAIN DRAIN
American Rolling Mill Co
Arcon Drainage & Metal Products Inc
Barrett Pipe & Terra Corp
Carr-Culvert Steel Corp
Columbia Building Products Corp
General Lumber Co
Mid-State Metal & Wire Co
New Holland Metals Co
New Orleans Building & Metal Co
Northern Steel Products Inc
Northeast Metal Products Inc
Pennsylvania Steel Co
Potter-Pattinson Co
Raybestos Metal Products Div
Red Clay Products Co
Tuff-Arc Metal Co
Wheeling Trench Co
William-Wallace Co
York Corrugating Co
PIPE, CONDUIT, STEEL
American Rolling Mill Co
Arcon Drainage & Metal Products Inc
Barrett Pipe & Terra Corp
Carr-Culvert Steel Corp
Columbia Building Products Corp
General Lumber Co
Mid-State Metal & Wire Co
New Holland Metals Co
New Orleans Building & Metal Co
Northern Steel Products Inc
Northeast Metal Products Inc
Pennsylvania Steel Co
Potter-Pattinson Co
Raybestos Metal Products Div
Red Clay Products Co
Tuff-Arc Metal Co
Wheeling Trench Co
William-Wallace Co
York Corrugating Co
PIECE, FIBER, CONDUIT
Brown Co Cessilone Div
Grampey Mfg Co
PIECE, IRON, WROUGHT
Arcon Drainage & Metal Products Inc
Barrett Pipe & Terra Corp
Carr-Culvert Steel Corp
Columbia Building Products Corp
General Lumber Co
Mid-State Metal & Wire Co
New Holland Metals Co
New Orleans Building & Metal Co
Northern Steel Products Inc
Northeast Metal Products Inc
Pennsylvania Steel Co
Potter-Pattinson Co
Raybestos Metal Products Div
Red Clay Products Co
Tuff-Arc Metal Co
Wheeling Trench Co
William-Wallace Co
York Corrugating Co
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<thead>
<tr>
<th>Manufacturers' Names With Complete Addresses Starts on Page D-67</th>
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</thead>
</table>

- **Siding, Stained**
  - American Stained Shingle Co
  - Canadian Shingles Products Ltd
  - Hunting-Mer-Lite Shingle Div
  - West Coast Stained Shingle Co
  - Eastern Pine Association

- **Siding, Cedar, Red, Stained**
  - Standing Shingle Co
  - Sash & Door Mfg Co
  - Shingle, Metal
  - McAlpine Shingled Products Inc

- **Siding, Aluminum**
  - Aluminum Co of America
  - Comp-A-Miracle Products Co
  - Kaiser Aluminum & Chemical Corp
  - Western Pine Association

- **Siding, Aluminum Cladboard**
  - Children's Mfg Co
  - Portico Sales Co

- **Siding, Asbestos Cement**
  - Asphalt Div Allied Chemical & Dye Corp
  - Carney (Philip) Mfg Co
  - CertainTeed Div Allied Chemical & Dye Corp

- **Siding, Asbestos-Cement, Corrugated**
  - Ashton Co of Texas
  - Barrett Div Allied Chemical & Dye Corp
  - Carey (Philip) Mfg Co

- **Siding, Asphalt, Patterned, Insulating**
  - American Asbestos Corp
  - Barrett Div Allied Chemical & Dye Corp
  - Bond & Son Inc

- **Sills & Stools, Metal**
  - Abingdon Potteries Inc
  - American Radiator & Standard Sanitary Corp
  - American Varnish Co

- **Silos**
  - Caldwell (W E) Inc
  - Economy Silo & Mfg Co
  - General Steel & Wire Co

- **Silos, Building Material Grain & Coal Storage**
  - Brinkley Corp
  - Donnell Mfg Co Inc

- **Silos, Metal**
  - Jones Mfg Co
  - Johnson (C E) Co

- **Sinks, Metal**
  - AllmetalWare Inc
  - American Central Div Allied Mfg Co

- **Skids & Pallets**
  - Carter & Moore Co
  - Clark Equipment Co

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**List of Manufacturers' Names With Complete Addresses Starts on Page D-67**

**Shingles, Cedar, Red, Stained**
- Twin Harbors Lumber Co
- Wallace Lumber & Mfg Co
- Toutle River Sb
- Super Shing Co
- Thurston-Flav Co

**Shingles, Stained**
- Cedar Lumber Mfg Co
- Cedar Shake Mfg Co
- Cedar Shingles Mfg Co
- Cedar Shake Mfg Co
- Cedar Shingle Mfg Co

**Shingles, Porcelain Enamel**
- Wolverine Porcelain Enameling Co

**Shoring, Concrete Soffit Floor**
- Moore Mfg Co

**Shovels, Rocker, Powered**
- Besser Mfg Co

**Shutters, Metal**
- Elmeo Corp

**Shutters, Wood**
- Adelphian Mills Vandy (E A) Agents
- American Air Controls Corp

**Shutters, Wood**
- Boscawen, N.H. Products Ltd
- Ocean Beach Shingle Mill
- Pacific Wood Co

**Shutting, Concretes**
- Porta-Cor Building Corp
- Perma Products Co
- Perma Products Co
- Phoenix Shingle Co
- Portland Shingle Co

**Shutting, Metal**
- Silverline Mfg Co
- Silverline Mfg Co
- Silverline Mfg Co
- Silverline Mfg Co

**Skins, Model or Stainless Steel**
- Elgin Iron & Ore Div
- E. I. du Pont de Nemours & Co

**Skis**
- American Mfg Co
- Amster Mfg Co

**Slopes**
- American Varnish Co
- American Varnish Co

**Size, Wall**
- American Varnish Co
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<td>Bloomfield Oil &amp; Tank Corp</td>
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<td>Butternut Mfg Co</td>
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### List of Manufacturers' Names With Complete Addresses Starts on Page D-67

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<td>Hope Brick Works</td>
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<td>U S Gypsum Co</td>
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<td>Flintsaco Inc</td>
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<td>Hardy Brick &amp; Co</td>
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La Crosse Steet Roofing & Corrugating Co
Lau Blower Co
Conklin & Co
Pennsylvania Wire Glass Co
Olson Mfg Co
Modern Stainless Specialties Co Div Modern Electric Laboratory
Glen Mfg Co
Pfaudler Airbrush Co
Peerless Electric Co
Pittsburgh Wire Glass Co
Pfizer Mfg Co
Pyrene Mfg Co
American Varnish & Color Co
Baker-Thomas Lime & Cement Co
California Zonolite Co
United Filter & Seed Co
Universal Wire Co
St. Paul Foundry & Mfg Co
Rolland Rubber Specialties Corp
Steeleite Mfg Co
Trowbridge & Lamson Co

VERMICULITE
Acme Asbestos Covering & Flooring Co
Fairbank-Thornhill & Cement Co
California Sonolite Co
Celotex Corp
Dobson Mfg Co
Great Lakes Carbon Corp
Insulation Service Co
International Insulation
Moore Dry Kiln Co
Northwest Insulation
Robertson Insulation Co
Schneider 565 & Co Inc
Southern Sonolite Co
Sullivan Mfg Co
Timco Mfg Co
Texas Vermiculite Co
Vermiculite Products Corp
Vermiculite Sales Co
Western Mineral Products Co
Sonolite Co

VIBRATONE CONCRETE, GASOLINE & ELECTRIC
Murphy Mfg & Sales Co
Mall Tool Company

VISES
American Vise Co
Armstrong Vise & Tool Co
Atwal Machine & Foundry Co
Billingham & Spenier Co
Champion Hardware & Supply Co
Cimlician Vise & Mfg Co
Dundie Vise Co
General Hardware Co
Graham & Co Inc
Grand Specialties Co
Littleton Specialties Co
Millers Falls Co
North American Mfg Co Div Stanley Tools
Parber (Charlot) Co
Piek & Spenier Co
Richard-Wilson Mfg Co
Si Pacific Mfg Co
Sparrow & Co
Stearns Tools Div Stanley Works

VISOR DOOR HOLDING
Stow Metal Products Co

WAGONS, LUMBER YARD
Copper (E R) & Co
DeSlide Mfg Corp
Electric Hose & Fittings
Gellerich Carrier Co
Korn Corp
Landis Co
Lindberg Vise & Co
Notting Tires & Carrier Co
Partlack Self Body Co
Point-Williamette Co
Standard & Acto Co
Sweeney & sons Co
Super-Speed Mfg Co
Wadsworth & Devine Inc
Whispering City Mfg Co

WALLBOARD, ALUMINUM FOIL COVERED
Celotex Corp
Certain-tied Products Corp
National Gypsum Co
U S Gypsum Co

WALLBOARD, ASBESTOS CEMENT
Carby (Phillip) Mfg Co
Celeron Corp
Johns-Manville Corp
Reader & Mathis Co
Rubberoid Co

WALLBOARD, FIRE PROOFING
Colortex Corp

WALLBOARD, FIBER INSULATING
Armstrong Cork Co
Concast Cork Corp
Ludowici Co
Flitzko Mfg Co
Fibron Mfg Co
Insulite Div Minnesota & Ontario Paper Co
Johns-Manville Corp
National Gypsum Co
Plutonium Wall Board Co
Simplex Logging Co
U S Gypsum Co
Wood Conversion Company

WALLBOARD, FIBER, WATERPROOFED
Uson Co

WALLBOARD, FIBER, WOOD
Acton Pavin & Weisser Mfg Co
Armstrong Cork Co Building Material Div
Bird & Son Inc

WALLBOARD, LEATHER FINISH
Acton Pavin & Weisser Mfg Co
Mascon Mfg Corp
Wallace Mfg Co

WALLBOARD, MARBLE FINISH
Armstrong Cork Co
Gibbs Cork Co
Johns-Manville Corp
Markwell Mfg Inc
Prestige Mfg Co
Tylor Mfg Co
Williams Products Co

WALLBOARD, LEATHER FINISH
Armstrong Cork Co
Gibbs Cork Co
Johns-Manville Corp
Marsh Wall Products Inc
Prestige Mfg Co
Tylor Mfg Co
Williams Products Co

WALLBOARD, MARBLE FINISH
Armstrong Cork Co
Gibbs Cork Co
Johns-Manville Corp
Marsh Wall Products Inc
Preisler Mfg Co
Tylor Mfg Co
Williams Products Co

WALLBOARD, PAPER
Bird & Son
Certain-tied Products Corp
Cornell Wood Products Co
Flitzko Mfg Co
Fibron Mfg Co
Insulite Div Minnesota & Ontario Paper Co

WALLBOARD, WOODFINISH
Armstrong Cork Co Building Material Div
Certain-tied Products Corp
Furnace, O Mfg Co
Romanoite Co
March Wall Products Inc
National Gypsum Co
Prestige Mfg Co
Preisler Mfg Co
Service Products Div Woodall Industries Inc
Tylor Mfg Co
U S Gypsum Co
Williams Products Co Inc

WALLBOARD, WOODFINISH
Armstrong Cork Co Building Material Div
Certain-tied Products Corp
Furnace, O Mfg Co
Romanoite Co
March Wall Products Inc
National Gypsum Co
Prestige Mfg Co
Preisler Mfg Co
Service Products Div Woodall Industries Inc
Tylor Mfg Co
U S Gypsum Co
Williams Products Co Inc

WATERPROOFING, METALLIC
Belzona Smoothing & Depicting Works Inc
Cornell Waterproofing Corp
Economical Mfg Co
Gilbert-Bowman Co
Hasbrouck & Co
Gould Mfg Mfg Co Inc
Hartmut Inc
Mittl Co
Morgan Mfg Co
National Specialty Mfg Inc
Perfection Steel Body Co
Revelry Mfg Co
Schenck Mfg Co
Trenfco Mfg Co

WATERPROOFING, PREFORMED UNIT
Brisko Waterproofing Inc

DAINTY WATERPROOFING, SURFACE TYPE
Aeta Mfg Corp
Adams Co
American Asphalt Roof Corp
American Mfg Co Inc
Anti-Hydro Waterproofing Co
Barrett Div Allied Chemical & Dry Corp
Bird & Son Inc
Boiling Brothers Inc
Cabot (Samuel) Inc
Calcite & Paint Co Inc
Carly (Phillip) Mfg Co
Cement Chemical Corp
Cornell Waterproofing Corp
Chapman Chemical Corp
Dover & Beaver Re Inc
Double Bonding Co
Eco Emulsion Mfg Co
Flitzko Mfg Co
Forma-Feed Inc
Gilman-Bowman Co
Gluster Corp
Harpy Chemical Corp
Harvey's Inc
Hydro Products Inc
Joseph Mfg Co Inc
Kartille Co
Lahti Products Co Inc
Lehn Co
London Inc

Mackey Mfg Co
Medina Portland Cement Co
Minnesota Builders Supply Co
Morgue Co Inc
North American Mfg Co Div Stanley Tools
Parber (Charlot) Co
Piek & Spenier Co
Richard-Wilson Mfg Co
Si Pacific Mfg Co
Sparrow & Co
Stearns Tools Div Stanley Works

VEGETAL BLEND
Blue Diamond Corp
Celotex Corp
Concast Cork Corp
Cotton Wall Products Inc

WATERPROOFING, INTEGRAL
Adonis Co
American Everlast Co Inc
Anti-Hydro Waterproofing Co
Bud Boiler Inc
Cornell Waterproofing Corp
Dow Chemical Co
Economical Mfg Co
Gould Mfg Co Inc
Hasbrouck & Co
Hartmut Inc
Mittl Co
Morgan Mfg Co
National Specialty Mfg Inc
Perfection Steel Body Co
Revelry Mfg Co
Schenck Mfg Co
Trenfco Mfg Co

WATERPROOFING, LEATHER FINISH
Acton Pavin & Weisser Mfg Co
Mascon Mfg Corp
Wallace Mfg Co

WATERPROOFING, MARBLE FINISH
Armstrong Cork Co
Gibbs Cork Co
Johns-Manville Corp
Marsh Wall Products Inc
Preisler Mfg Co
Tylor Mfg Co
Williams Products Co

WATERPROOFING, RUBBER
Bird & Son
Certain-tied Products Corp
Cornell Wood Products Co
Flitzko Mfg Co
Fibron Mfg Co
Insulite Div Minnesota & Ontario Paper Co

WATERPROOFING, WOOD
Bird & Son
Certain-tied Products Corp
Cornell Wood Products Co

WATERPROOFING, WATERPROOFED
Uson Co

WATERPROOFING, WATERPROOFED
Uson Co

WATERPROOFING, WATERPROOFED
Uson Co

WEATHER PROOFING, MEMBRANE
American Asphalt Roof Corp
Calcite (Christian) Inc
Barrett Div Allied Chemical & Dry Corp
Carby (Phillip) Mfg Co
Celotex Corp
Economical Mfg Co
Flitzko Mfg Co
Fibron Mfg Co
Hasbrouck & Co
Johns-Manville Corp
Kennedy Mfg Co
Lehn Co
Mittl Co
Morgan Mfg Co
National Specialty Mfg Inc
Perfection Steel Body Co
Revelry Mfg Co
Schenck Mfg Co
Trenfco Mfg Co

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Cornell Waterproofing Corp
Dow Chemical Co
Economical Mfg Co
Gould Mfg Co Inc
Hasbrouck & Co
Hartmut Inc
Mittl Co
Morgan Mfg Co
National Specialty Mfg Inc
Perfection Steel Body Co
Revelry Mfg Co
Schenck Mfg Co
Trenfco Mfg Co

List of Manufacturers' Names With Complete Addresses Starts on Page D-67,
| List of Manufacturers' Names With Complete Addresses Starts on Page D-67 |
SECTION II

Alphabetical List of Building Products and Equipment

Brand Names

The Names of Manufacturers With Advertisements in This Issue Appear in Boldface Type in the List of Manufacturers’ Names and Addresses

Starting on Page D-67

B R A N D N A M E S 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 names 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 complete addresses of the manufacturers will be found in Section III beginning on page D-67.


AMERICAN BUILDER
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**List of Manufacturers' Names With Complete Addresses Starts on Page D-67.**
List of Manufacturers' Names With Complete Addresses Starts on Page D-67
| List of Manufacturers' Names With Complete Addresses Starts on Page D-67 |
Principal 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 a parent company; popular usage served as a quide in these cases. For example, the manufacturer of Bendix home appliances is listed as—Bendix Home Appliances, Inc., Div., Avco Mfg. Corp. rather than as—Avco Mfg. Corp., rather than as—Avco Mfg. Corp., Bendix Home Appliances, Inc., Div.

In other cases, such as those involving departments of companies, the more popular major name is used as possible, but the American Builder is not responsible for changes in addresses and other discrepancies. 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. 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.

**The Names of Manufacturers With Advertisements In This Issue Appear In Boldface Type**

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<th>Index</th>
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<tr>
<td>Mene Machine Works Co</td>
<td>Central Chemical Co</td>
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<tr>
<td>Caterpillar &amp; Co</td>
<td>Cermak &amp; Co</td>
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<tr>
<td>Central Screw Co</td>
<td>Central Oak Products Co</td>
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<tr>
<td>Central Division &amp; Co</td>
<td>Cernak Tile Co Inc</td>
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<tr>
<td>Century Air Conditioning Fan Co</td>
<td>Cerseal Chemical Corp</td>
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<td>Curtin Lumber Co</td>
<td>Colenere Core</td>
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<tr>
<td>Curtis Machine Works</td>
<td>Colson Corp</td>
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<tr>
<td>Champion Service Co</td>
<td>Columbus - Tonawanda N Y</td>
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<td>Champion Mfg Co</td>
<td>Columbus Rubber Mfg Co</td>
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<tr>
<td>Charles Machine Works</td>
<td>Columbia</td>
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<td>Chapman Chemical Co</td>
<td>Cambridge Carnegie</td>
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<td>Chappeo Sales</td>
<td>Carnation</td>
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<td>City, State, Zip</td>
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<tr>
<td>Consolidation Engineering Corp</td>
<td>122 S Michigan Av Chicago 11, IL</td>
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<tr>
<td>Condon Pipe Products Co</td>
<td>Columbus 0</td>
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<tr>
<td>Conduct Wire Products Co</td>
<td>Charlotte N C</td>
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<tr>
<td>Congononics Inc</td>
<td>Kansas City 26</td>
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<tr>
<td>Copeo Steel &amp; Engineering Co</td>
<td>Detroit 27, Mich</td>
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<tr>
<td>Corbin Lumber &amp; Co</td>
<td>Conway S C</td>
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<tr>
<td>Corrington Machine Co</td>
<td>Steel &amp; Wire Co</td>
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<tr>
<td>Cortier Mfg Co</td>
<td>Canton 7, Ohio</td>
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<tr>
<td>Corinth Machinery Co</td>
<td>Corinth Miss</td>
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<tr>
<td>Coast Lumber Co</td>
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<tr>
<td>Construction Machinery Co</td>
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<td>Cook (F C) &amp; Co</td>
<td>Baltimore 2</td>
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<td>Cook County Lumber Co</td>
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<td>Corbin (P &amp; F) Div American Hardware Corp</td>
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<tr>
<td>Copper (VM) &amp; Co</td>
<td>Atlanta GA</td>
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<tr>
<td>Copeo Steel &amp; Engineering Co</td>
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<td>Corinthy Mfg Co</td>
<td>New London</td>
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<tr>
<td>Cook (F P) &amp; Co</td>
<td>Central Park</td>
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<tr>
<td>Corbin Lumber Co</td>
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<tr>
<td>Continental Abbe &amp; Benning Co</td>
<td>1 Madison Av New York 22</td>
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<tr>
<td>Continental Steel Corp</td>
<td>1604 N Southeast Av Chicago 23</td>
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<tr>
<td>Continental Diamond Corp</td>
<td>1417 S 24th St</td>
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<tr>
<td>Continental Screen Co</td>
<td>1549 Washington Blvd Detroit 36</td>
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<tr>
<td>Continental Screw Co</td>
<td>100 Mount Pleasant Av New York 17</td>
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<tr>
<td>Continental Steelexpo Corp</td>
<td>621 E 125th St New York 17</td>
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<tr>
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<td>2 Park Pl PA</td>
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<tr>
<td>Corley Mfg No</td>
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<tr>
<td>Cox (HF) &amp; Co</td>
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<tr>
<td>Coughlin (GN) Co</td>
<td>Newark 6, NJ</td>
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<tr>
<td>Countrymen Lumber Co</td>
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<tr>
<td>Corly Mfg Co</td>
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<td>Cox (F P) &amp; Co</td>
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<tr>
<td>Cooper (RB &amp; J) Co</td>
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<td>Countymen Lumber Co</td>
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<td>Cox (F P) &amp; Co</td>
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<td>Cooper &amp; Braden Research Ass</td>
<td>1209 Chicago 20</td>
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<tr>
<td>Cuomo Lumber Co</td>
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<tr>
<td>Cooper (C J) Co</td>
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<tr>
<td>Cour (T J) &amp; Co</td>
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<td>Cooper (J C) &amp; Co</td>
<td>401 Phillips Toledo 10</td>
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<td>Copeland Corp</td>
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<tr>
<td>Cooper (M V) Co</td>
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<tr>
<td>Countryside Co</td>
<td>215 W 4th St</td>
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<td>Day-Stan Oil Co</td>
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<td>Daybrook Oil Co</td>
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<td>Cooper (M V) Co</td>
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<td>Daybrook Oil Co</td>
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<tr>
<td>Daybrook Oil Co</td>
<td>401 Phillips Toledo 10</td>
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</table>

Only

THE

"OVERHEAD DOOR"

TRADE MARK

MIRACLE WEDGE
SALT SPRAY STEEL

OVERHEAD DOOR CORPORATION

Hartford City, Indiana, U.S.A.

MANUFACTURING DIVISIONS

GLENDALE, CALIFORNIA
OKLAHOMA CITY, OKLAHOMA

DETROIT, MICHIGAN
PORTLAND, OREGON

HILLSIDE, NEW JERSEY
LEWISTOWN, PENNSYLVANIA

CORTLAND, NEW YORK
DALLAS, TEXAS

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and time to select hardware for screens and screen doors

The National line of Screen Hardware is too extensive to catalog in a single advertisement. For example, while only two types of National Adjustable Spring Hinges are shown on this page, National also manufactures spring hinges without the adjustable feature. It is suggested that you ask your National Dealer to show you the National Wall Chart which illustrates every item.

To conserve time and energy it is recommended that you obtain National packaged hardware sets. In each package you will find all screws and accessories for one complete installation. No searching for screws or misplaced items.

NATIONAL HARDWARE
Popular in the building field for 50 years!

NATIONAL Manufacturing Company
STERLING • ILLINOIS