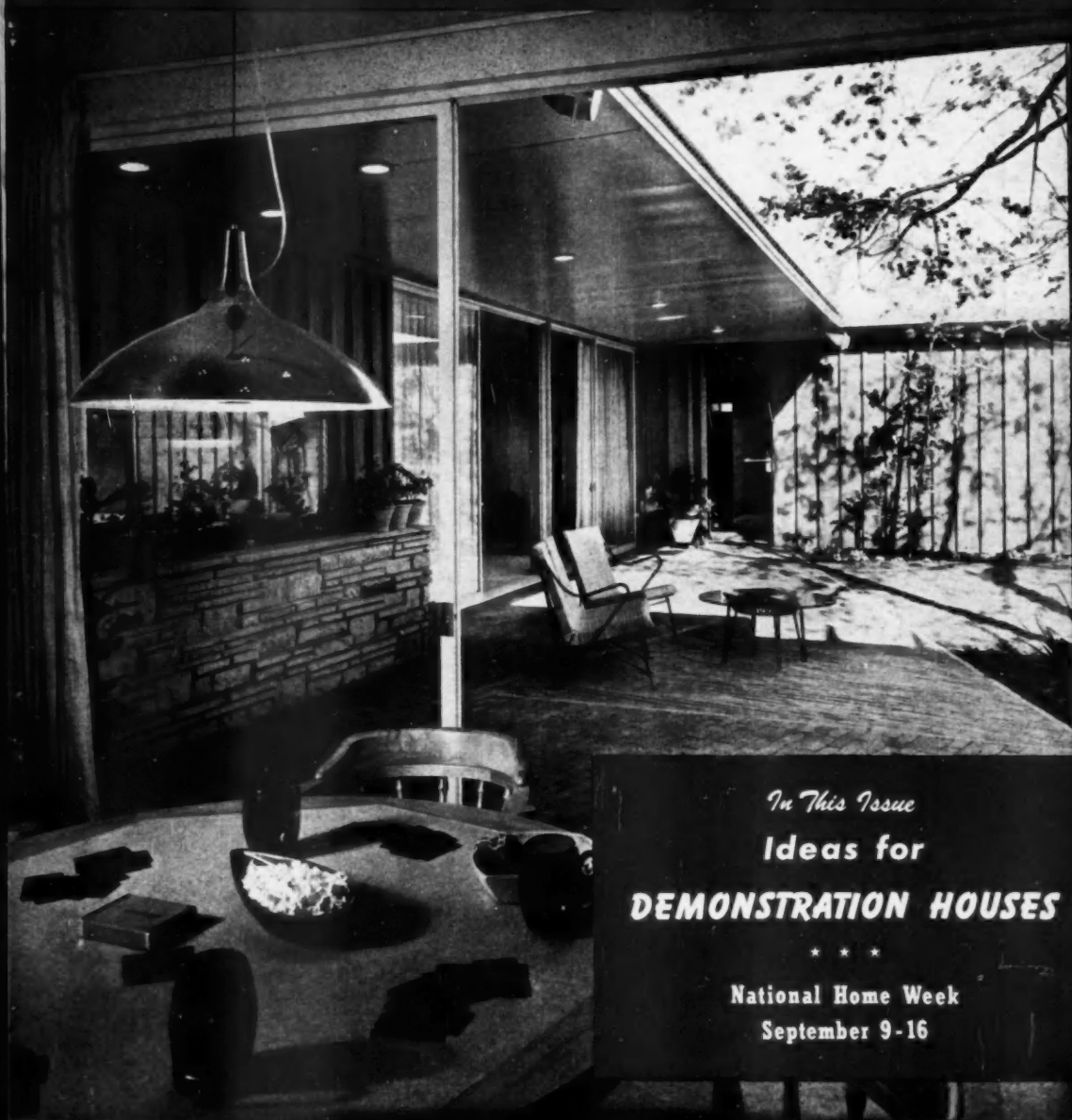


# AMERICAN BUILDER



*In This Issue*  
**Ideas for**  
**DEMONSTRATION HOUSES**

\*\*\*

**National Home Week**  
**September 9-16**

# You, too, can profit by **INSULITE® Leadership**

*"We gave 350 families better  
constructed homes at lower cost by using  
Bildrite® Sheathing"*

MONROE WARREN, Sr.  
President, Meadowbrook, Inc.  
A leading Washington, D. C.  
builder for 30 years.



Monroe Warren, like thousands of other leading builders, has learned the meaning of **INSULITE** leadership through actual experience. Here's his story — in his own words:

"Gentlemen: We know and appreciate the advantages of Bildrite Sheathing, for we have built more than 350 homes since we started using it. As reputable builders, we use only the highest quality materials; but we are always looking for economies, at no sacrifice in quality. Our search led us to Insulite.

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With hundreds of thousands of feet of trouble-free use to back our judgment, we definitely prefer Insulite — and will continue to specify it on our new jobs.

Sincerely,  
*Monroe Warren, President*  
**MEADOWBROOK, INC.**"

E. C. Burgdorf, Meadowbrook's  
Construction Superintendent



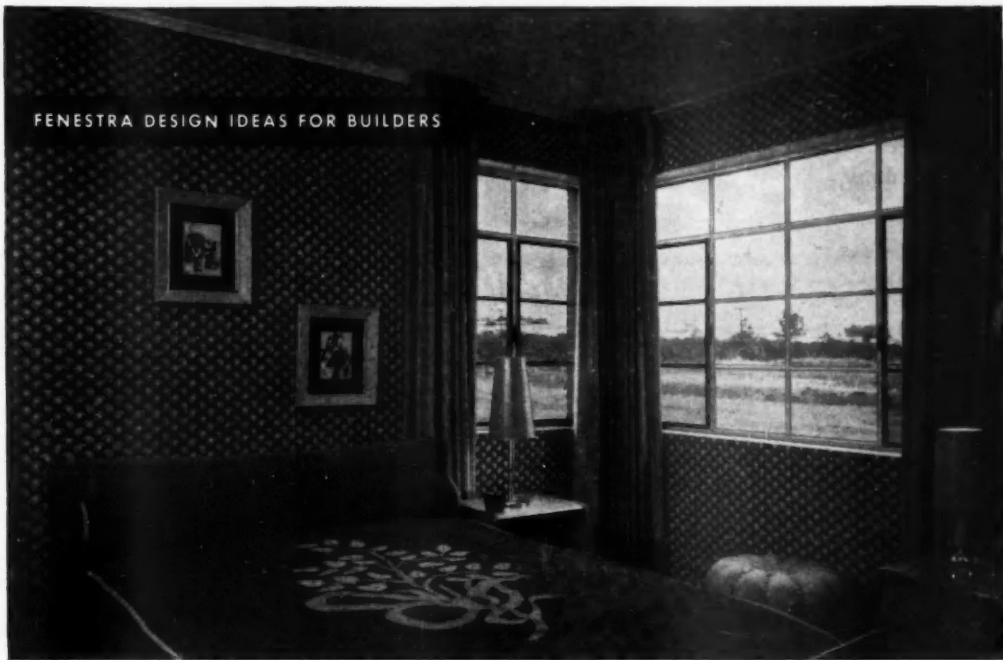
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**INSULITE DIVISION**  
**MINNESOTA AND ONTARIO PAPER COMPANY**  
**MINNEAPOLIS 2, MINNESOTA**

See Sweet's File, for Builders—2g/in

*More and more builders, like Mr. Warren, are learning about INSULITE'S leadership . . . how it gives extra quality and advantages — yet saves them money. And you can profit, too, by trying Bildrite Sheathing on your next job. Drop us a card for further information.*

FENESTRA DESIGN IDEAS FOR BUILDERS



FEELING OF SPACIOUSNESS in this room is due to those slim-lined Fenestra Windows. Fenestra casings make installation a snap. Architect: Emil Mins, Chicago. Builder: A. J. Epton & Son, Skokie, Ill.

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But you can make yours look big and roomy—light and airy and fun to be in.

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*engineered to cut the waste out of building*

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*the preferred plumbing*



This beautiful Crane Criterion bathroom in the Fritz Burns "Home of Tomorrow," Los Angeles, is an example of the smart styling possibilities of this matching group of fixtures. The design of the Criterion lavatory won for Henry Dreyfuss the Annual Gold Medal Award, given by the Architectural League of New York. Lavatory also available with legs. See your Crane Branch or Crane Wholesaler.

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# AMERICAN BUILDER

Founded — 1879

American Builder is published by the SIMMONS-BOARDMAN PUBLISHING CORPORATION, Emmett St., Bristol, Conn., with editorial and executive offices at 79 W. Monroe St., Chicago 3 Ill., 30 Church St., New York 7, N.Y. James G. Lyle, President; Samuel O. Dunn, Chairman Emeritus; Robert H. Morris, Publisher and Vice President; C. J. Wageman, F. A. Clark, Vice Presidents; J. S. Crane, Vice President and Secretary; A. J. McGinnis, Treasurer.

Office of publication, Bristol, Conn. Editorial and executive offices at 79 W. Monroe St., Chicago 3, Ill., and 30 Church St., New York 7, N.Y. American Builder [originally "Carpentry and Building"] with which are incorporated Building Age, National Builder, Permanent Builder, and the Builder's Journal, was founded Jan. 1, 1879. Names registered in U.S. patent office and Canadian registrar of trade mark.

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Address all subscriptions and correspondence concerning them to: Subscription Department, American Builder, Emmett St., Bristol, Conn. Changes of address should reach us three weeks in advance of next issue date. Send old address with the new, enclosing if possible your address label. The Post Office will not forward copies unless you provide extra postage. Duplicate copies cannot be sent.



American Builder is a member of Associated Business Publications (A.B.P.) and Audit Bureau of Circulations (A.B.C.). Printed in U.S.A.

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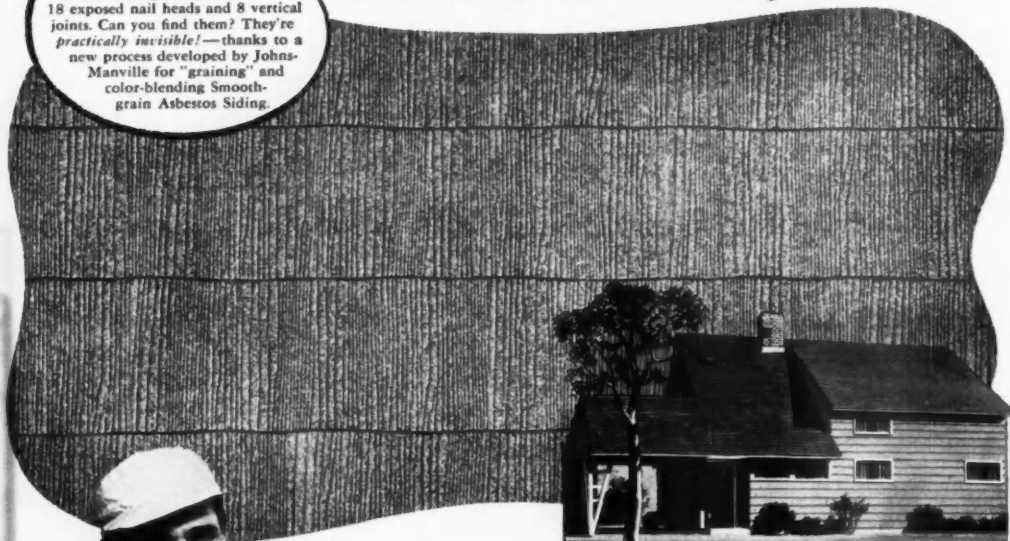
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# Where are the nails? Where are the joints?

In this unretouched photograph of Smoothgrain Asbestos Siding Shingles, there are 18 exposed nail heads and 8 vertical joints. Can you find them? They're practically invisible!—thanks to a new process developed by Johns-Manville for "graining" and color-blending Smoothgrain Asbestos Siding.



## Beautiful Smoothgrain Asbestos Siding Shingles

The "grain" is so striking in appearance . . . and the color-blended texture so harmonious throughout the entire job . . . that the nail heads and vertical joints between shingles seem to disappear.

### Easier to cut . . . cleaner edges . . . less waste!


Faster, better installation is a plus advantage you get with Johns-Manville Smoothgrain Asbestos Siding.

That's because the surface of this newly-improved siding is *smooth*, not grooved. With the cutter always working against a smooth surface, the cut edges are clean and sharp. There's no chipping to cause spoilage or mar appearance. Also, the siding is *stronger* because it has the same cross section throughout.

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by means of ceramic granules, deeply embedded into a sparkling white background. The striking appearance is always the same from any angle you look!

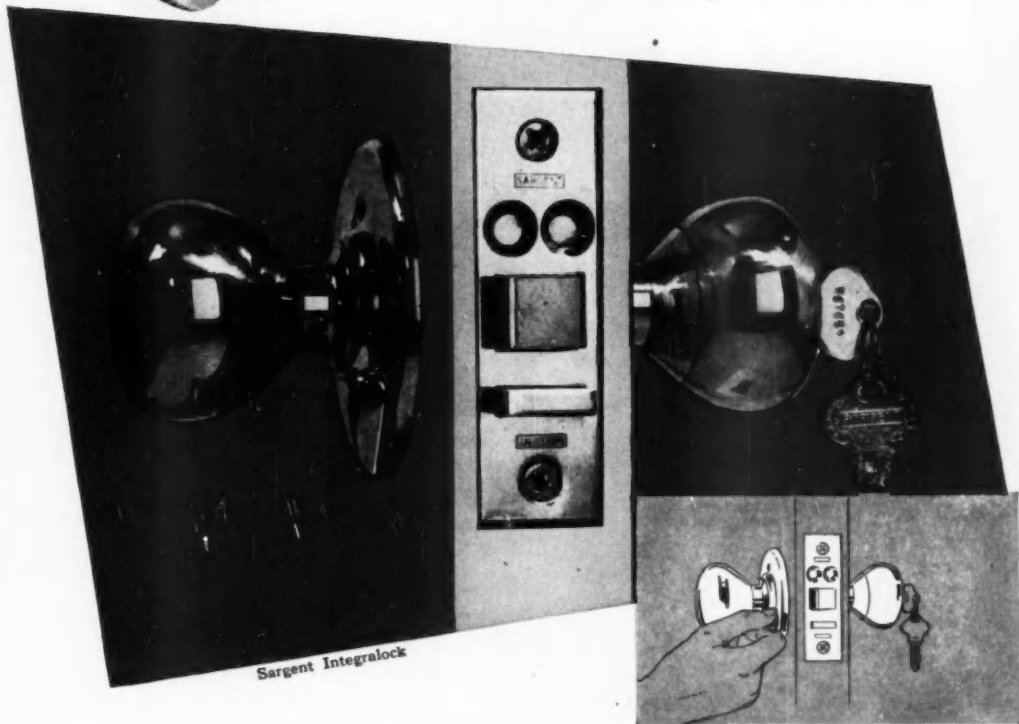
Smoothgrain Asbestos Siding comes in an outstanding variety of beautiful Permatone colors, including Heather Green, Autumn Brown, the warmly rich and practical Weathered Gray, and the ever-popular Silver Gray which goes well with any color scheme. For full-color brochure, write Johns-Manville, Box 290, N. Y. 16, N. Y.

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Sargent Integrallock

Homeowners like the added security that comes with the turn of a deadbolt. They also want key-in-knob action and styling for today. Now you can give them both — extra beauty and extra protection — in a popularly priced model of the famous Sargent Integrallock,

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The new Integrallock, especially designed for residential installations, is available in brass or bronze — with round rose or square escutcheon. Sealed case quickly installed in a small mortise.

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More than anything we could say, the judgment of this independent, impartial and competent body testifies to the excellence of Crawford Marvel-Lift Doors.



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SALES AND SERVICE-companies everywhere.



## Publisher's Page

DR. MELCHIOR PALYI, internationally-known authority, has joined the American Builder staff as economist. His enlightening articles will appear on this page every month. His material is mandatory reading for all who are engaged in the building industry.

# FOREVER INFLATION? —

## Restating Some Fundamentals

AMERICAN BUSINESS is intoxicated by Monetary Inflation. The building industry is among the leaders in this procession.

This is the outstanding criterion in the light of which the prospects for business in the next months and years are to be gauged.

There are two laws governing inflation. It might be well for us to bear them in mind.

The Political Law governing Inflation is this: it must continue. The powerful vested interests which flourish under its hot-house climate must be protected. The cure is too painful. Even minor interruptions may cost elections.

The Economic Law is another story. Increase of currency and credit out of proportion to the growth of the volume of marketable consumer goods unleashes the vicious price-wage spiral. In due course, the thing becomes self-inflating and the credit expansion has to be stopped, even though that means depression.

Is there a way out of this dilemma? Some trick by which to keep money pouring out and to hold prices, too? Certainly, the planners tell us. Why worry about such little things as a 20 per cent or 30 per cent rise in the general price level? Production, they say, is being stimulated; pretty soon a flood of goods will match the flood of money, and the markets will be in good balance.

This is the idea of the stabilized high plateau, with armaments, full employment, and the Welfare State thrown into the theoretical bargain. Patently, the idea is not new; it has been propagandized as the Eternal Prosperity—that slid miserably into the great depression.

Experience does not deter the Planners. The trouble in the 1920's

was, to their minds, that there was not enough money forthcoming! Presently, we are not inhibited any longer by the gold standard and high interest rates. Should production outrun the mass purchasing power, we need not even resort to budget deficits (which "helps"). The banks just monetize a chunk of the huge national debt or use some other piece of paper as collateral for bank loans. And the people disburse some of their accumulated "liquidity," such as savings deposits and savings bonds. The Federal Reserve System itself has become a money-coining contraption: put in an I.O.U. of the government and draw out cash.

Such is the economists' paradise of Eternal Stabilities, latest version. There is one flaw in it, admittedly. While the money inflation provides the public with purchasing power, the stimulus to enlarge the national output does not provide him with sufficient consumer goods.

For one thing, inflation overstimulates the buying and hoarding of inventories. For another thing, it calls for the construction of capital goods, the output of which will not hit the markets for some time. For a third thing, the military and similar needs force a large sector of productive facilities into unproductive channels. All of which incites further credit expansion and reduces the supply of consumer goods. The candle of inflation burns at both ends.

So, the Planners have to resort to subterfuge, openly or deviously. They try to dam the money flood and to restrain its consequences; by rabid taxation, by discriminatory credit restraints, by direct price-fixing, by allocations and priorities, etc. "Stabilized" Economy and Police State are twins. But the Police

State (another name for Socialism—but the rose smells just the same) is not exactly favorable to profits and business enterprise—unless its negative incentives are offset by more inflation.

And, the price-wage level is not stabilized at that. As all experience shows, price controls can walk on the crutches of subsidies only—which means more inflation. Monetary and fiscal controls work only if they reduce the flow of money—which means deflation.

Nor is it money alone, its quantity, that matters. Equally important is how it is used. By snatching up and stockpiling strategic raw materials and the cream of labor, the government creates shortages. The public and business cannot help but anticipate higher prices; they act accordingly. The inflated demand thus set in motion raises prices—controls or no controls.

No, the expansion of productive facilities does not restore equilibrium. What it does is to raise the specter of over-production. Over-speculation actually causes temporary setbacks, as we have witnessed virtually every year since the last war, this spring in particular. But the trend is not affected as long as new inflation stimuli are to be expected.

With or without controls, inflation is a one-way street—until it narrows to the point at which its bleak realities have to be faced squarely. When the Economic Law overtakes the Political Law, as it must, there will be the Day of Reckoning.

Melchior Palyi



## ahead... JUST ONE YEAR!

Can you predict the building picture a year from now? Increasing building for defense and re-allocation of materials for defense production must be considered; manpower and time shortages will enter the picture.

### WHERE WILL YOU BE?

With Gunnison Homes, you can build twice as many homes, in half the time, without the uncertainties of a conventional building! Field erection is easy, fast, standardized, requires a minimum of skilled labor!

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**GOOD BRICKWORK = GOOD DESIGN + GOOD WORKMANSHIP + GOOD MATERIALS**



*When placed flat in  $\frac{1}{4}$ -inch of water for one minute, a brick should gain not more than 20 grams (7/10-oz.)*



*A good bond was not secured here because the brick on which the mortar was spread had sucked the mortar dry, before the brick was laid.*



*A good bond was secured here because the mortar was not sucked dry too fast.*

# **WET THE BRICK TO SECURE A WATERTIGHT BOND**

## **WE SUGGEST THAT—**

Brick taken from the scaffold should be tested for rate of absorption, as illustrated at top left. If the tested brick gains more than 1 ounce in weight, all brick should be thoroughly wet just before they are used.

**A** good initial bond between brick and mortar depends (1) upon the suction rate of the brick, and (2) the water-retaining capacity of the mortar.

If the absorption rate of the brick is too high at the time they are laid, they will suck the water out of the mortar too fast, even though the mortar has high water-retaining capacity. A thorough wetting of the brick just before they are laid is the only way to be sure they will have a low enough rate of absorption.

## **BRIXMENT**

Brixment mortar has higher water-retaining capacity and stays soft and plastic longer when spread on porous brick. This helps secure a good, watertight bond.

**LOUISVILLE CEMENT COMPANY, Incorporated, LOUISVILLE, KENTUCKY**

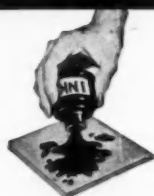


*"These Slumber Bums won't make me miss  
that 5:10 commuter AGAIN, now that  
**EVERYTHING HINGES ON HAGER!\***"*

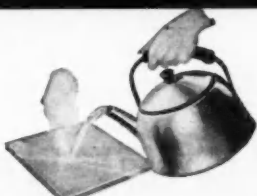
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**TILE CLEANS LIKE PORCELAIN**



**TILE LASTS A LIFETIME**



**TILE IS FIREPROOF**

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**tile**

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Genuine Clay Tile cleans as easily as a china dish and commands respect wherever it is used. Have you considered the use of tile in the kitchen, foyer, utility room or powder room? It is worth a fresh appraisal every time you design or build any type of building. And remember—whether it is for modern or traditional styling—tile is one of the most versatile materials you can use for distinctive color schemes.

Tile Council of America, Room 3401, 10 East 40th St., New York, or Room 433, 727 W. Seventh St., Los Angeles, Calif.

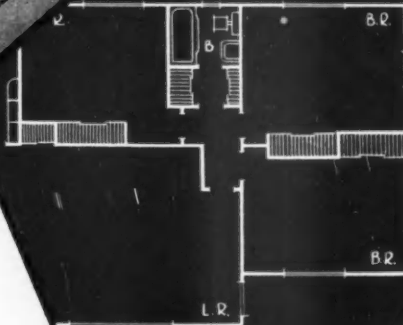
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# MENGEL



**WESTOVER CONSTRUCTION CORP.**  
**WESTOVER FIELD MASSACHUSETTS**  
 P. O. Box 550  
 March 20, 1951

Walter W. Almond  
 85 Charles Street  
 Boston, Massachusetts

Dear Sir:

Since June of 1950, we have purchased from you approximately thirty-nine hundred Mengel Wall Closets and Closet Fronts for the 750 unit housing project which we currently have under construction for the U. S. Air Force Base, Westover Field, Chicopee, Mass.

We are very much pleased with the results obtained on our Westover Development with Mengel prefabricated sliding door wall closet fronts because they are quite easily assembled and installed. We use them as wall partitions and find that sliding doors greatly increase the usable floor space in each room, which makes for a much easier arrangement for furniture.

The service rendered us by both your company and the manufacturer has been entirely satisfactory and we are quite pleased to recommend these products on their own merits to all architects and builders of modern housing.

As further proof of our complete satisfaction, we are placing with your company an additional order for approximately eighteen-hundred Mengel closets and closet fronts for the last two sections of the Westover Air Force Base Project.

Very truly yours,

*John J. Boherty*  
 John J. Boherty, President  
 Westover Construction Corp.  
 Westover Field, Mass.

Architect: Prentiss & Carlisle Co., Inc., Bangor, Maine

Sponsor: Westover Development Corp., Westover Field, Massachusetts

Builder: Westover Construction Corp., Westover Field Massachusetts

# CLOSET WALLS REPLACE *3 MILES* OF CONVENTIONAL WALLS for Westover Construction Corp.

**PROVIDE Bigger, Better Closets!**  
**ELIMINATE Many Interior Walls!**  
**GIVE the Sales Appeal of Sliding Doors!**  
**SAVE Time and Money!**

The letter on the opposite page, written by Mr. Doherty, one of the East's outstanding developers, and President of the Westover Construction Corp., "tells all" about the benefits of Mengel Closet-Walls. The drawings and following data show specifically where and how these benefits were obtained.

This three-bedroom apartment is typical of the 750 new low-rent units at the Westover Field Air Base in Chicopee, Massachusetts.

Its five Mengel Wall Closets (in red) replace 21 feet of conventional walls—provide each bedroom with a six-foot sliding-door closet—give the living room and bathroom each a three-foot sliding-door closet. The result: *lower costs for the builder . . . better closets for the "customer"!*

The whole project will use 3878 Mengel Wall Closets, replacing more than 15,750 lineal feet (nearly 3 miles) of conventional walls!

**Factory-built Mengel Wood Wall Closets are complete units, shipped KD in a ready-to-assemble package. Nothing extra to buy. Installation is a matter of minutes. Each unit will provide a beautiful sliding-door closet for one room, a finished wall in the room on the other side. Mengel Closets are ideal for small homes or large, for all construction which requires "clothes closets"!**

**Mail the coupon for specification and installation sheets and our complete AIA catalog.**



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Dept. AB-6  
The Mengel Company  
1122 Dumesnil St., Louisville 1, Ky.

Gentlemen: Please send me complete information about Mengel Wall Closets.

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Firm \_\_\_\_\_

Street \_\_\_\_\_

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

# TRENDS *in the Building Field*

## The All-American House of the Mid-Century

THERE is no greater postwar industrial miracle than the 5 million new homes which have been produced by builders in the last five years. Heretofore no accurate description has been available of these millions of new dwelling units. The Bureau of Labor Statistics, Survey of New Home Financing and Characteristics in 15 Metropolitan Areas provides a wealth of detailed information. It shows that the typical new house, although small, is substantially built, and incorporates the most advanced materials and equipment. Furthermore, the typical house, in most areas prior to Regulation X was bought with a low down payment or none at all, and monthly payments are within the means of the average worker.

The study represents a colossal job of tabulating data on 147,000 new houses started in 15 metropolitan areas between July and December, 1949. The 147,000 houses constitute 33 per cent of all new non-farm houses started in the United States during that six months period. The survey, conducted by the staff of the Bureau of Labor Statistics, required interviews with thousands of purchasers of new houses and builders, and cost several hundred thousand dollars. The results can be considered fairly typical of all new postwar houses. Smaller communities usually follow the structural and design trends of larger metropolitan areas.

The metropolitan areas surveyed include Atlanta, Boston, Chicago, Cleveland, Dallas, Denver, Detroit, Los Angeles, Miami, New York, Philadelphia, Pittsburgh, San Francisco, Seattle and Washington, D.C. Copies of the survey are available without charge from the Bureau of Labor Statistics, Washington, D.C.

### NEW YORK

In the New York metropolitan area, 83 per cent of the new houses have one-story, 7 per cent one-and-a-half stories, and 10 per cent are two stories. Fifty-seven per cent of the new houses in New York have attics suitable for finishing, 76 per cent have basements, 40 per cent have

garages, 23 per cent porches, and 29 per cent have fireplaces.

The typical house in New York has five rooms, and 960 square feet of floor area. Fifty-six per cent of the new houses are of frame construction with a facing of wood. In 57 per cent the interior wall material is wallboard. Seventy-five per cent have wood window frames. Forty per cent have hot water radiator heating, 50 per cent have individual sewage disposal systems, 84 per cent have one bathroom, and 16 per cent have more than one.

Seventy-five per cent of new houses in New York were operative-built for sale or rent. Sixty-three per cent were purchased by Veterans of World War II at an average price of \$11,670.

Twenty-two per cent were bought without down payments. The average down payment was \$2,330. The average monthly payment was \$56.95. Sixty-eight per cent of the buyers had annual family incomes of less than \$5,000.

### DALLAS

In Dallas, 99 per cent of the new houses are one story. Only 2 per cent have attics suitable for finishing; there are no basements, and only 4 per cent have utility rooms. Fifty-five per cent have garages, 26 per cent have porches, and 11 per cent have fireplaces.

The typical Dallas house has five rooms, and a floor area of 960 square feet. Seventy-three per cent are of frame construction with a facing of wood. Interior wall material in 98 per cent of the houses is wallboard. Fifty-five per cent have wood window frames, and 41 per cent have steel. Thirty per cent have either floor or wall furnaces, and 59 per cent space heaters. Eighty-nine per cent have one bathroom, and 9 per cent more than one.

Eighty-four per cent of the new houses in Dallas were operative-built for sale or rent. Seventy per cent were bought by World War II veterans. Average purchase price was \$9,300. Fifty-three per cent were bought without down payments. The average

monthly payment is \$63.60. Seventy-five per cent of the buyers had annual family incomes of less than \$5,000.

### LOS ANGELES

In Los Angeles, 99 per cent of all new houses are one story. Only one per cent have attics suitable for finishing, or basements. Twenty-three per cent have utility rooms. Ninety-one per cent have garages, 36 per cent have porches, and 23 per cent have fireplaces.

The typical Los Angeles house has five rooms, and a floor area of 960 square feet. Ninety per cent are of frame construction with facing of stucco. The interior wall material is plaster in 95 per cent of the houses, and window frame material is wood in 78 per cent. Eighty-seven per cent have either floor or wall furnaces. Ninety-one per cent have one bathroom, and 9 per cent have more than one.

Eighty-three per cent of Los Angeles' houses were operative-built for sale or rent. Seventy-one per cent were bought by World War II veterans. Thirty-eight per cent were bought without down payments. Average purchase price was \$9,820. Monthly payments average \$45.75. Eighty-three per cent of the purchasers had annual family incomes of less than \$5,000.

### CHICAGO

In the Chicago area, 82 per cent of the new houses are one story, 7 per cent are one-and-a-half, and 11 per cent are two stories. Nineteen per cent of the houses in the Chicago area have attics suitable for finishing, 71 per cent have basements, 25 per cent have garages, 15 per cent have porches and 19 per cent have fireplaces.

The typical Chicago house has five rooms and an average floor area of 1,040 square feet. Forty-nine per cent are of masonry construction with a facing of brick, and 40 per cent are wood or frame. Seventy-seven per cent have plaster interior walls and 87 per cent have wood window frames. Seventy-four per cent have hot air

*(Continued on page 182)*



# "You Sure Can Put 'Em to Bed with LONE STAR MASONRY MORTAR"



**-SO SAID THE MASONS  
ON BORGER'S  
FINE, NEW HOTEL**

● Fast-growing Borger, Texas, saw another Lone Star grand slam, doubled and redoubled in quality cement:

LONE STAR AIR-ENTRAINING PORTLAND CEMENT used for foundations, columns, walls and first two floor slabs;

"INCOR"® 24-HOUR CEMENT for upper floor slabs, when weather turned cold, saving forms and costly heat protection;

LONE STAR PORTLAND CEMENT for the roof, after weather turned warm;

LONE STAR MASONRY CEMENT in all brick and tile work.

Result, maximum construction speed at minimum cost. Worth noting, too, were the Masons' friendly words about Lone Star Masonry mortar:

They went for its rich, buttery, uniform texture . . . they liked the way this better mortar holds together on the trowel, spreads evenly in long, smooth beds . . . remains plastic, retains water, keeps brick from sucking water from the mortar.

"You sure can put 'em to bed with mortar like this!" is the way they summed it up . . . explaining why, these days, the call everywhere is for Lone Star Masonry Cement.

\*Reg. U. S. Pat Off.

**HOTEL BORGER**, Borger, Texas

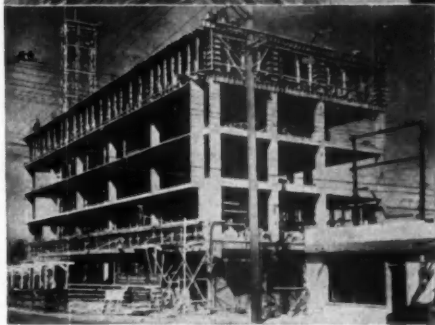
Architects & Engineers:

**CANTRELL & COMPANY, ARCHITECTS, INC.**, Pampo, Texas

Contractor: **VON FRELICK INC.** San Angelo, Texas

Lone Star Cements supplied by:

**WES-TEX BUILDING MATERIALS CO.**, Borger, Texas



## LONE STAR CEMENT CORPORATION

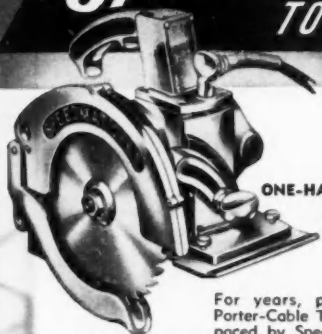
Offices: ALBANY • BETHLEHEM, PA. • BIRMINGHAM • BOSTON  
CHICAGO • DALLAS • HOUSTON • INDIANAPOLIS • JACKSON, MISS.  
KANSAS CITY, MO. • NEW ORLEANS • NEW YORK • NORFOLK  
RICHMOND • ROANOKE • ST. LOUIS • PHILADELPHIA • WASHINGTON, D. C.

LONE STAR CEMENT, WITH ITS SUBSIDIARIES, IS ONE OF THE WORLD'S LARGEST CEMENT PRODUCERS: 17 MODERN MILLS, 125,000,000 SACKS ANNUAL CAPACITY



LONE STAR CEMENTS COVER THE ENTIRE CONSTRUCTION FIELD

# PORTER CABLE Speedmatic TOOLS



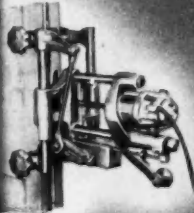
**ONE-HAND 8" SAW  
MODEL K-89**

For years, popularity of Porter-Cable Tools has been paced by Speedmatic Saws.

Their 2-Way Balance puts their performance at the top—for easy handling, safety, cutting power, durability. For every builder, Model K-89 (illustrated) is basic equipment. This is the typical One-Hand Saw, usable anywhere. Others equally suited to their work are the 7½", 10¼" and 12" sizes.

### K-89 SPECIFICATIONS

- Saw Blade, 8" (½" hole)
- Depth of Cut @ 90°, 2¾"
- Depth of Cut @ 45°, 2"
- Net Weight, 17 lbs.
- Smooth, helical-gear drive
- Broad base for steady rest
- Handle mounted at center of gravity
- Thumb screw depth adjustment. \$140.00



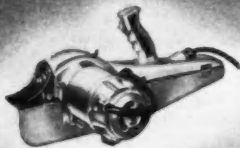
**LOCK MORTISER  
Model U-24**

Mortises for use back in 20 seconds • Overall Size, 16½" x 16¾" x 12¼" • Net Weight, 26 lbs. (with motor) • Feed is entirely automatic and positive, does all cutting in one pass. Length of cut controlled by adjustable stop.  
Lock Mortiser attachment \$115.00  
With Router Motor . . . \$28.00  
Tapered for hinge bolt; sanding disc available.



**3" BELT SANDER  
Model A-8**

Two other models: 8" x 20" and 6" x 20" belts, both with dust hood.  
10 times faster than hand-sanding • Belt Size, 3" x 24" • Belt Speed, 1,600 SFPM • Size Overall, 5¼" x 10" x 7¾" • Net Weight, 14 lbs. • Patented belt retaining device. Belt tracking control centers belt perfectly. \$115.00



**ELECTRIC PLANE  
Model UP**

Blades keep sharp 3 times longer • Width of Cut, 2 7/16" • Depth of Cut, 3/32", adjustable while plane is in use • Net Weight, 21 lbs. • Removable and removable double-edged steel blades. Sharpening attachment (included) sharpens blades in 3 minutes. Approx. adjustable for bevel cuts. Power Plane attachment \$105.00  
With Router Motor . . . 195.00



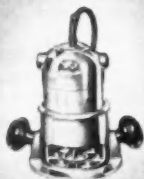
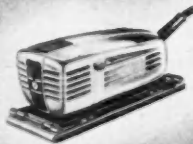
**FINISHING SANDER  
Model 1000**

Orbital-motion gives velvet-smooth surface • Non-Stalling Motor • Pad Speed, 5,000 RPM (3/16" dia. orbit) • Pad Size, 3½" x 9" (takes ¾ of standard abrasive sheet) • Size Overall, 7¼" x 8" x 4½" • Net Weight, 8 lbs. • Synchronized Transmission cancels vibration. Sponge rubber pads (extra) for sanding curved surfaces. \$115.00



**FLOOR SANDER  
"Contractor Special"  
Model 504**

(Two other models: 8" and 12" drums.)  
• Balanced, no veering, skipping or gouging • Motor, 2 HP, 115/230 volt, 60 cycle • Drum, 8" wide • Surface Speed, 3140 and 3925 SFPM • Weight Frame, 121 lbs. • Weight Motor, 114 lbs. • Net Weight, 235 lbs. • Drum cover interchangeable in 3 minutes. 97% efficient vacuum system. Heavy-duty motor easily portable. \$395.00



(Two other models: 8", and 4½" blades)  
Unmatched speed and power  
• Saw Blade, 6¼" (½" hole)  
• Depth of Cut @ 90°—2"  
• Depth of Cut @ 45°—1½"  
• Net Weight, 12 lbs. • Galvanized stainless steel blade for any bevel cut. Knob-screw locks depth adjustment at any point from zero to 2". \$65.00

Counterbalanced—no vibration • Motor, powerful Universal type • Pad Speed, 5,000 RPM (3/16" orbit) • Pad Size, 3" x 8½" • Size Overall, 9" x 3" x 3½" • Net Weight, 3 lbs. • Works with, against and across the grain without gouge or pattern. Light enough for overhead sanding. Ruggedly-built for production work. \$59.50

Easy to use in any position • Belt Size, 2" x 21" • Belt Speed, 600 SFPM • Size Overall, 4" x 12" x 6" • Net Weight, 9 lbs. • Rests solidly on the work—sands flat and true. Grinds, removes paint, levels, polishes any material. \$62.50

Makes decorative cuts quickly and accurately • Speed, 20,000 RPM • Chuck, ½" capacity, adapters available down to 1/16" • Overall Size, 7" high x 3½" base dia. • Net Weight, 5½ lbs. • Depth adjustment from 1/64" to 1". Interchangeable motor also powers Gelfo Plane and Shaper. \$49.50

*Outlast any other tools because they're*

# BALANCED!



**BUILDER'S ROUTER**  
Model US

Heavy Duty Model UC also available.  
Saves hours in woodworking operations • Motor, powerful Universal type • Speed, 18,000 RPM • Chuck, 5/16" capacity; hardened and ground; adaptors available down to 1/16" • Overall Size, 9 1/4" x 8" x 6" • Net Weight, 8 1/2 lbs. • Micrometer depth adjustment • Inter-changeable motor also powers Speedmatic Plane, Shaper and Lock Mortiser. \$125.00



**FLOOR EDGER**  
Model BE-7

(Two other models)

High speed disc won't scar or scar • Disc Size, 7" disc • Disc Speed, 3,200 RPM • Height, 13 1/2" • Net Weight, 25 lbs. • Abrasive disc changed in less than 1 minute. Shielded headlight illuminates working area. Sands flush with baseboards, quarter-rounds. \$180.00

Through the entire Porter-Cable line you will find one superiority after another that traces back to BALANCE. It's responsible for the compactness, sturdiness, good appearance and efficient operation which builders like. And on the actual job, BALANCE goes far to help Speedmatic and Guild tools produce results for you like these:

#### LONGER LIFE . . . FEWER REPAIRS

No other tool line can match Porter-Cable's for reserve power—balanced construction—rugged stand-up ability. Speedmatic and Guild Tools are your best buy because years of hard use in the field prove they *outperform and outlive!*

#### CUT BUILDING COSTS

Your houses go up faster—at more profit!—when you mechanize with balanced Porter-Cable Tools. They quickly pay for themselves . . . slash costs wherever used.

#### LESS FATIGUE . . . SAFER

Users say Porter-Cable Tools "feel natural." That's because they're *balanced*. They're easier to hold—easier to guide—easier to work with, hour after hour. And consequently, safer.

#### BETTER CRAFTSMANSHIP

Porter-Cable Tools are *balanced* for "on the line" operation. They don't veer, twist or deviate because of unbalanced weight. They handle with greater accuracy. Designed right, built right, they help even apprentices do expert work.

See your Speedmatic and Guild Dealer for free on-the-site demonstration. Or write for illustrated catalog showing applications, complete specifications, etc.

## PORTER-CABLE

Machine Company

7006 N. Salina St., Syracuse 8, N.Y.

In Canada write: Strongridge, Ltd., St. Catharines, Ont.

Manufacturers of SPEEDMATIC and GUILD Electric Tools

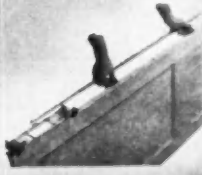
The Balanced Line



Zooms through wood at 20,000 RPM • Width of Cut, 1 13/16" • Depth of Cut, zero to 3/32" • Net Weight, 8 lbs. • Front and rear shoes are ground parallel. Bevels up to 25°. Quickly converted into jointer or mousing plane. Model 1102 Plane attachment with arbor, cutter, and spindle \$25.00. Model 101, Complete with motor \$65.00.



Makes difficult shaping and moulding jobs easy • Max. Height of Cut, 1 13/16" • Depth of Cut, 0" to 3/32" while jointing, 0" to 3/8" while shaping • Overall Size, 12" x 8 1/2" x 9 1/2" • Net Weight, 12 lbs. with motor and fence • Circular guide bracket for shaping curved pieces freehand. Adjustable fence for accuracy. Shaper Table and Bench Bracket, \$24.00. With Router, motor and base, \$73.50.



Mortises for a hinge butt every 1 1/2 min. Cut butts for 2 1/2" to 3 1/2" hinges. Assures accurate alignment and exact fitting of any door and jamb up to 7" high. No rule needed to locate mortises, numbered notch rod sets proper measurements. Made of extruded aluminum. Used with Guild Router; also with other routers by means of suitable guides. \$34.50



Sands, Grinds, Buffs, Polishes, Drills • Disc Size, 6" dia. • Speed under normal load, 2,000 RPM • Net Weight, 5 lbs. 13 oz. • Helical gear drive. Nearly double the power of similar tools, allows 53% more working surface. Has brush stand and power take-off (extra) \$44.50

# Nu-Glaze

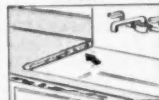
HAS DOZENS  
OF USES!



MAY BE PAINTED  
WHEN APPLIED



REPLACING OLD  
PUTTY



AROUND SINKS AND  
DRAINBOARDS



FILLS CRACKS IN BRICK,  
CEMENT, WOOD



AROUND BATH TUBS  
AND PIPES



BOAT WORK OF  
ALL KINDS



SETTING ALL PLUMBING  
FIXTURES



NU-GLAZE IS  
WATERPROOF!



Mack says...

NU-GLAZE  
ALWAYS  
STAYS  
PUT!



## 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**



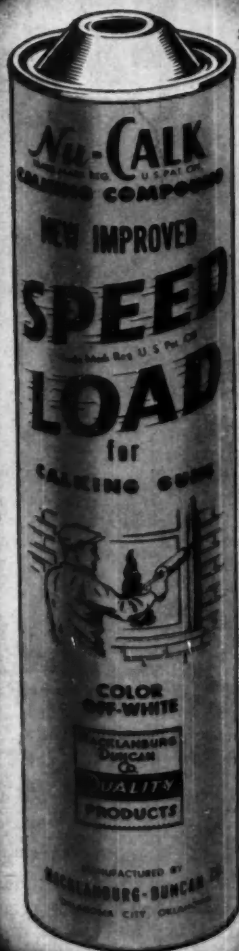
SELL  
**Nu-GLAZE**  
INSTEAD OF  
PUTTY

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**  
CALMING  
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



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

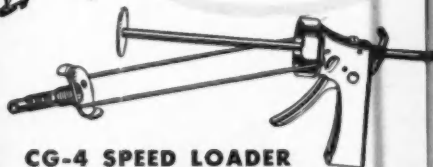
*Nu-CALK*  
**SPEED LOAD**

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. Glassine-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.



*Mack says...*  
... and

**HERE'S THE  
STREAMLINED GUN  
TO GO WITH IT!**



**CG-4 SPEED LOADER**

Here's the other half of this famous sales-making combination! This SPEED LOADER calking gun retails at a price that paves the way to more calking sales. It's light, sturdy, fool-proof. Retail for only \$1.95. Show it and you'll sell it!

Your order will be shipped same day received!

STANDARD CG-3 CALMING GUN AVAILABLE



Experienced calking appliers still favor our CG-3 Standard Calking gun's easy trigger action and powerful piston action. Fitted for use with either Nu-Calk Speed Loads or bulk calking.

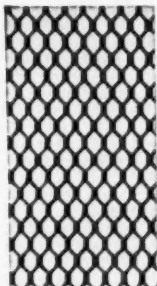
PACKAGED 10 LOADS TO A CARTON



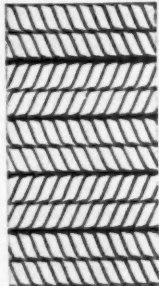
There are 10 Speed Loads to each carton (Appr. one gal.) and 4 cartons to each case. Please order in multiples of 4 cartons. Full freight allowed on orders of 4 cartons or more.

**MACKLANBURG-DUNCAN CO.**  
OKLAHOMA CITY 1, OKLAHOMA

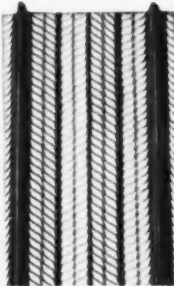
# TRUSCON... a name you can **build** on



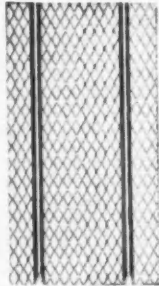
Diamond Metal Lath



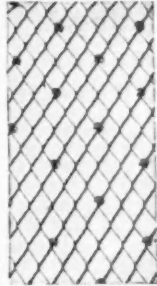
Herringbone Doublemesh Metal Lath



Ribplex Lath



Self-Santaring<sup>®</sup> Lath



Stucco Mesh



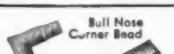
Rib Steel Corner Bead



Scalloped Edge Corner Bead



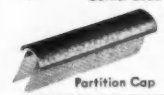
Expanded Corner Bead



Bull Nose Corner Bead



Bull Nose Corner Bead



Partition Cap



Base Screed Flush Type



Wide Flange Casing



Short Flange Casing



**better**

## for every plastering job

Truscon offers the plastering industry *one source of supply* for an extremely wide range of metal lath and accessory products. These are manufactured to strict Truscon standards, on precision machinery, and are available through the nation wide system of Truscon warehouses and building supply dealers. Accepted by all Building Codes in America.

See Truscon's complete catalog in "Sweet's" for full information, or write direct to us for separately bound catalogs.

**TRUSCON<sup>®</sup> STEEL COMPANY** YOUNGSTOWN 1, OHIO

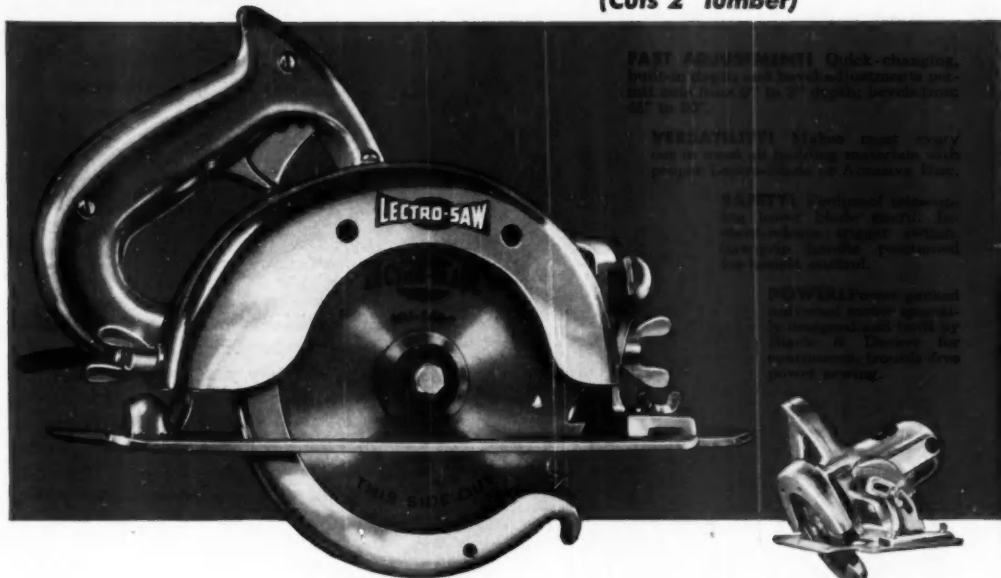
Subsidiary of Republic Steel Corporation

AMERICAN BUILDER

# NEW!

## 6" Heavy-Duty Deluxe LECTRO-SAW

(Cuts 2" lumber)



### What Speed . . . What Savings What a Buy for only \$76.50

Here's a sure-fire way to put extra dollars in your pocket, cut extra hours off your building jobs! Get yourself a great, new 6" Heavy-Duty Deluxe LECTRO-SAW! It beats hand sawing 10 to 1! Weighs only 11¼ lbs., close-coupled, perfectly balanced for easy one-hand control. And it's a really durable heavy-duty Saw, gives you job-proved features that mean extra-long service—dependable Black & Decker-built universal motor, full-size ball bearings, high-quality helical gearing, hardened armature shaft, husky housings, etc. Try one, buy one at your building supply dealer's. It will pay for itself almost before you can say 6" Heavy-Duty Deluxe LECTRO-SAW!

*Professional Saws at Popular Prices!*

Also: 6" Heavy-Duty model (\$56.50) 8" Heavy-Duty model (\$92.50)



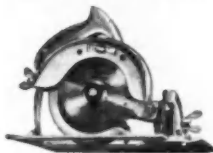
Products of HOME-UTILITY Div., BLACK & DECKER Mfg. Co.  
Dept. H-666, Towson 4, Maryland

JUNE, 1951

**FAST ADJUSTMENT!** Quick-changing, easy-to-use, adjustable blade guard. **VERSATILE!** Cuts in any position. **HEAVY-DUTY!** Dependable Black & Decker built universal motor, full-size ball bearings, high-quality helical gearing, hardened armature shaft, husky housings, etc.



**BEVEL ADJUSTING QUADRANT** calibrated for easy reading, fast adjustment in bevels from 45°-90°.



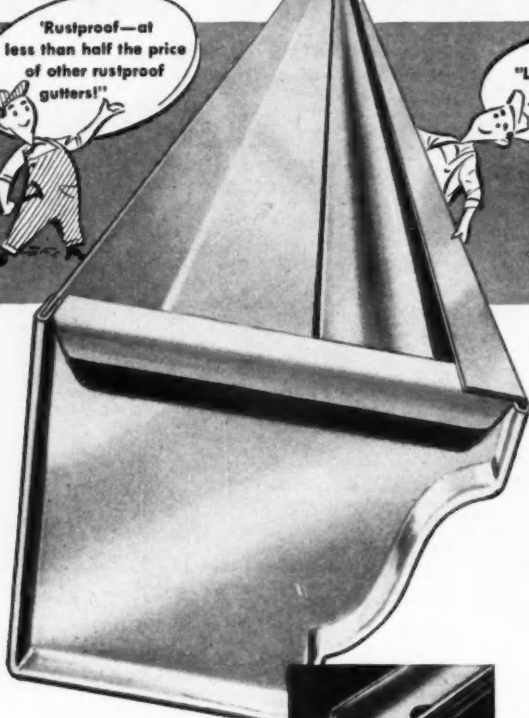
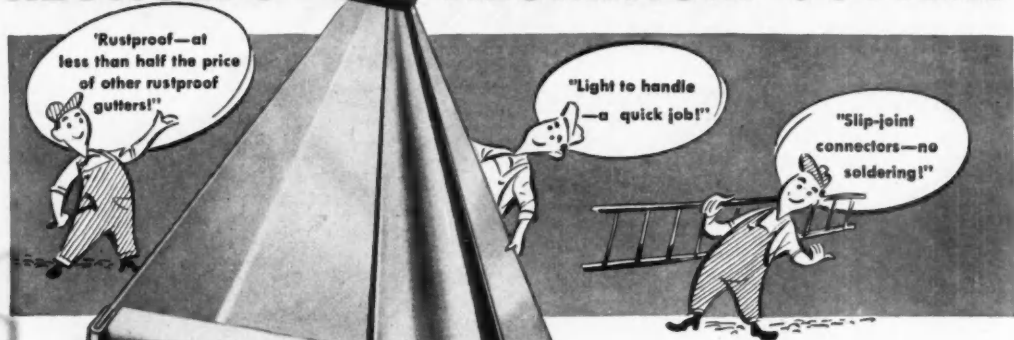
**TWO DEPTH ADJUSTMENTS** (front and rear) permit handle to be kept at comfortable wrist position, even in very shallow cuts.



**NEW PRACTICAL SAW PROTRACTOR!** Sets in a jiffy to make rapid, extremely accurate cuts with any power saw. Sets at any angle. Use with Saw's bevel adjustment for compound mitering. Only \$4.50.

23

# It's good business to know all about REYNOLDS *Lifetime* ALUMINUM GUTTERS



5" Ogee or Half-Round—smooth or stippled finish. 3" plain and corrugated round downspouts. 2 3/4" x 3 1/4" downspouts for Ogee. 6" Industrial Half-Round with 4" downspouts. Complete accessories.



It's *good business* to know the builder-advantages of these gutters... easier application, lifetime quality at a lower price. It's *good business* to know the greater satisfaction customers get from the *beauty* of aluminum... from the fact that it never needs painting, cannot stain a wall.

Government requirements limit production, but you'll be wise to name your first choice *first*.

Check your dealer. And by all means keep the facts in your active product file, because aluminum capacity is rapidly expanding. Mail the coupon.

Offices in principal cities. For more information, call the Reynolds Dealer or Office listed under "Building Products" in your classified phone book. Or write:

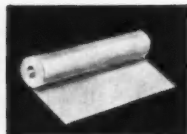
**Reynolds Metals Company**  
Building Products Div., Louisville 1, Ky.



Reynolds Aluminum Reflective Insulation is foil on kraft paper. Reflects up to 95% of radiant heat. Production limited. Heavy demand. See your dealer.



Reynolds Aluminum Windows (residential casement, double-hung, fixed, picture). Outstanding in finish and design. Check your suppliers for availability.



Reynolds Lifetime Aluminum Flashing... Nails. Increasingly preferred by builders, these items are still produced. Supply limited. See your dealer.

Also Industrial Corrugated, Standard Corrugated and 5-V Crimp Roofing... Remember DO-rated orders get priority handling.



Reynolds Metals Company,  
Building Products Division,  
2009 South Ninth St., Louisville 1, Ky.

Please send me full details on:

- Gutters     Windows     Insulation  
 Nails     Flashing     Industrial Corrugated  
 Standard Corrugated and 5-V Crimp

Name \_\_\_\_\_

Address \_\_\_\_\_

# REYNOLDS ALUMINUM

AMERICAN BUILDER



Here's  
your  
evidence  
of  
extra  
value  
in  
Home  
Construction...



### **Russwin tubular locks and latches**

One way to be sure your customers feel that you have their best interests in mind is to recommend Russwin Tubular Locks and Latches. They offer easy-to-demonstrate, *extra-quality* features at not a penny extra in cost. In addition, you save on installation costs . . . the owners, on maintenance expense. Russwin "Keynob" locksets feature the famous ball-bearing pin-tumbler cylinder that defies wear. Exclusive Russwin tubular rack and pinion construction stays smooth, trouble-free for life. Wrought steel case for maximum protection. Get complete details from your nearby Russwin dealer or send for descriptive literature. Russell & Erwin Division, The American Hardware Corporation, New Britain, Conn.

SINCE 1839  
**RUSSWIN**<sup>®</sup>  
DISTINCTIVE HARDWARE  
Proving the Economy of Quality



## EXTRA FEATURES . . . EXTRA CONVENIENCE . . . EXTRA SATISFACTION

Note the features and you'll see why the Eljer Legation Bathtub is in such demand. This *special* tub . . . an outstanding member of Eljer's complete bathtub line . . . offers your clients *plus* advantages found in no other tub. It gives *you* the opportunity to add extra convenience and satisfaction to the homes that you are planning.

Here are Legation features: thick, vitreous enamel over a *rugged, rigid, cast-iron base*; comfortable end-

seat; low front rim; wide, flat bottom for safety's sake; easy-to-clean rectangular shape; extra-wide front rim-seat; superb beauty; 5½' length; white or pastel colors.

The Eljer Line also includes a complete assortment of recessed and corner tubs in many sizes. For information, see the nearest Eljer Distributor or write to Eljer Co., Ford City, Pa. Specify Eljer and you specify extra convenience and extra satisfaction.

*It pays you, it pays us*—because we specialize in Plumbing Fixtures and Brass

# ELJER





# ASSOCIATIONS

## *Their Plans and Activities*



### Urge Easing of Restrictions at N. J. Meeting

New Jersey Home Builders have outlined a program calling for relaxation of Regulation X and similar controls, designation of the state as a defense area, immediate enactment of the pending Defense Housing Bill, adoption of uniform building, plumbing, electrical and health codes and opposition to the setting up of a priority system or control plan for building materials.

The program, presented by E. M. Spiegel, president of the state association, was adopted at the group's third annual convention in Atlantic City April 5-7.

"Designation of the state as a defense area together with relaxation of Regulation X is absolutely necessary or the housing program will fall far short of the government's goal and consequently will not provide the necessary housing for veterans and defense workers," Spiegel said in his keynote address.

"Never was the time more opportune for the adoption of uniform codes. Operating under the National Production Authority regulations and orders and with critical materials being required for the defense effort and in many cases banned for building use it is imperative that we be permitted to use the most modern methods of design as well as new and improved alternate materials now barred under many antiquated codes.

"Labor as representative of the majority of workers in this country should and must actively support our program to provide housing for the workers of this nation and a legislative program designed to preserve free enterprise and strengthen our nation's economy."

Frank W. Cortright, executive vice president of the National Association of Home Builders, told delegates not to count too heavily on defense housing at the present time.

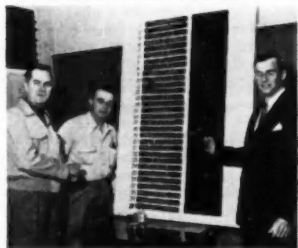
"The manner in which defense areas are to be designated, although still somewhat obscure," Cortright said, "will probably not be based on defense production alone; such other factors as hospitals, schools, military concentrations and transportation will be considered. Entire large areas will probably not be blanketed but greater selectivity will be exercised."

Carl T. Mitnick of Collingswood was elected president of the New Jersey group for the coming year. Other



**MISS NEW JERSEY** Home Builder of 1951, Miss Bernadette Hogan of Atlantic City, cuts tape to open product exposition at convention of New Jersey Home Builders Association in Atlantic City. Assisting in ceremony (front row from left) are John S. Wright, executive vice president; Charles A. Ginnetti, secretary; and Emmanuel M. Spiegel, 1950 president

newly elected officers include Arthur Turner, Sea Girt, first vice president; Richard Hudson, Montclair, second vice president; Carl S. Carlson, Ridgewood, treasurer; Charles A. Ginnetti, Atlantic City, secretary, and John S. Wright, Summit, executive vice president.



**4,000 TICKETS.**—I. O. Jacobson (left), president of Tulsa, Okla. Home Builders Association who reported advance sale of 4,000 tickets to 1951 Tulsa Home Show, is congratulated by Charles "Eddie" Skaitis, general chairman for the event. At right is C. E. Johansen, chairman of ticket committee. Show was held May 10-13

### "We Need You, You Need Us" Toledo Member Drive Slogan

Active participation in the national membership campaign has been reported by the Toledo Association of Home Builders. The Ohio group is using the slogan "We Need You and You Need Us" in addition to NAHB's "One for One in '51." Toledo officers said they expected to be a strong contender for national prizes.

### Independent Dealers Affiliate with NRLDA

Affiliation of the Independent Retail Lumber Dealers Association with the National Retail Lumber Dealers Association was announced at the 12th annual Independent convention at the Radisson Hotel, Minneapolis, March 29-31.

Jointly reporting the news were A. D. Sontag, Independent president, and Clyde Fulton, president, and H. R. Northup, executive vice president, of NRLDA.

Sontag said in his announcement: "In becoming affiliated with the National, our organization no longer invites membership from individual or small multiple yard operators only, but in the future will extend a most cordial invitation to membership to every retail lumber dealer in the states in which we operate.

"This will in no way alter or affect the basic responsibilities to independent dealers to which association has adhered during its 12 years of existence.

"The problems which were peculiar to individual yard operators in past years have been alleviated to the point where they are no longer significant. Our big job ahead is to consolidate the influence of all retail lumber dealers in this area so that our strength may be added to the NRLDA.

"By working closely and harmoniously together the national association will be able to do an ever more effective job for our nation's retail lumber dealers."

(Continued on page 168)



## Dealer's Viewpoint

H. R. NORTHUP, Executive Vice President,  
National Retail Lumber Dealers Association

## New Attitude in Congress

The refusal of Congress to be stampeded into passing the huge defense housing bill in anything like its original form holds more meaning than appears on the surface. It shows, of course, that Congress may be becoming more cautious about needless and wasteful spending, but the meaning goes deeper than that.

*First, it is apparent that Congress no longer regards subsidized public housing as a sure-fire means of attracting votes. The opposition of the people, expressed so forcefully in so many parts of the country, obviously has made a deep impression.*

*Second, the cautious way in which Congress dealt with the defense housing bill is a clear indication that our representatives in Washington are duly impressed with the great home building record which private enterprise ran up in the five post-war years.*

*Third, the safeguards which were written into the bill show that private enterprise has many friends and firm supporters in the House and Senate.*

The changing attitude toward public housing was demonstrated when the Senate refused to approve more than about 5000 units of government-built housing. The personnel of that Senate is not too greatly changed from the one, which just two or three years ago, voted for 810,000 units of public housing.

And the insistence on restricting the volume of government-built housing is good evidence that Congressional confidence in the ability, accomplishments, and good intentions of the private building industry has been greatly strengthened.

It is true, of course, that the sponsors of the original \$3 billion defense housing bill hurt their own cause when they introduced the measure without being able to demonstrate any urgent need for it, but it also is true that many members of Congress who formerly would have approved such a request without any great delay withheld their support, despite the "defense" label which the measure carried.

The new attitude in Congress is encouraging, but nothing more. There is no assurance that the tide may not again turn against private enterprise in the building industry unless everyone concerned takes advantage of every opportunity to bolster by word and deed the confidence which Congress has shown.

*We all must keep telling Congress and the public about our great record of accomplishment. We must meet urgent needs—in defense areas and elsewhere—as they arise. And we must work and speak with the public interest foremost in mind.*

If we do those things, we can look forward to more encouragement and less harassment in the future.

## Leonard Frank Honored at Long Island Party

Approximately 1,250 members and guests attended the ninth annual dinner-dance of the Long Island Home Builders Institute at which Leonard L. Frank, retiring president, was guest of honor. The party was held in the grand ballroom of New York's Hotel Statler.

Attendance exceeded that of any previous dinner, according to James Graham, regional vice president of the National Association of Home Builders and chairman for the annual event.

During the second year of Frank's administration, membership in the institute more than tripled, with 445 members added for a net gain of 207.9 per cent. This represented the greatest 1950 gain by any NAHB affiliate and the group rose from 21st to third in national membership.

Tributes were paid Frank by NAHB President William P. Atkinson; Frank W. Cortright, NAHB executive vice president; Frederick E. Gibson, new Long Island president, and John M. Dickerman, director of NAHB's legislative department.

## Two Life Membership Awards Made by Detroit Builders

Awards of life membership "in recognition of distinguished service to the association and the home building industry" have been made by the Builders Association of Metropolitan Detroit to George A. Duke and Howard Leach.

Duke, who joined the group in 1939 and has held several prominent offices including the 1948 presidency, is still active in an advisory capacity. Leach, a member since 1935, achieved recognition through outstanding committee work.

Two other members have received the awards—Edmund Kuhlman, one of the association founders and president in 1937-38, and W. J. Guinan, retired builder and president of the Wolverine Mortgage Co.

## Can't "Duck" Duty in Member Drive

If any members of the Home Builders Association of Spokane, Wash., desert home building for duck raising, the membership committee will have only themselves to blame.

This is why such a thing is possible: When the local membership drive of "One for One" was launched recently, the committee racked their brains for a form of punishment suitable to the crime of not bringing in the requisite new member.

They finally decided on "duck" punishment. Those who hadn't added a name to the roster by a certain date were placed on five lists and the top man on each list was presented a real live duck (the dirtier the better, according to the committee) to nurse through sickness and health and until such time as subject new member was signed up. At that time, duck was bequeathed to next man on the list, who

incurred the same responsibilities.

At last report, ducks were being passed steadily along and 15 days after deadline 40 new members had been added. So far no members have been lost to take up duck raising, but no shortage of threats has been noted.



CARE OF DUCKS is supervised by Spokane president, Wayne E. Guthrie, right. From left are Warren Drollinger, Chet Arnold, Bert Cheney, Jack Pattullo and Larry Marr

## NAHB Names Expediter For Building Materials

Appointment of Leonard G. Haeger as building materials expediter has been announced by the National Association of Home Builders. Haeger resigned his assistant directorship in the division of housing research, Housing and Home Finance Agency, to take the new post.



Leonard G. Haeger

As NAHB expediter, Haeger will work closely with Federal agencies which control production and use of materials. He will also do research on the integration of materials to effect construction savings, new building materials, and building codes, keeping NAHB members informed on current technical construction matters.

A member of the American Institute of Architects, Haeger is a graduate of Washington University, St. Louis, and holds a master's degree in architectural engineering.

## Studies European Use Of Substitute Materials

In one of his first moves as chairman of the Chicago Metropolitan Home Builders Association's new committee on non-critical substitutions, W. Wadsworth Wood has left on a six-week information-gathering tour of construction sites and industrial fairs in Europe.

Wood, publisher of the Small Homes Guide, will visit England, France, Belgium, Holland, Germany, Sweden, Switzerland and Italy.

He said that European builders, who lacked sufficient metals, wood and other conventional materials at the end of World War II, have done an ingenious job of rebuilding with substitutes and that he believes much of this knowledge can be put to valuable use in this country.

At the same time, Wood said, the committee is assembling all known construction substitutes from American makers, many of them thoroughly tested and approved since the war.

The committee plans to set up a display in the association's offices as soon as possible, enlarging it later to exhibit as a feature of the Home and Household Fair at the Navy Pier in September.

## Cortright's Column

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



## Veterans Well-Treated

Any editorial writer who refers to what is now going on in Korea as "World War III" receives hundreds of letters blasting and abusing him for exaggeration.

And yet our expenditures in manpower and money are already greater in that "Policing Action" than the totals of the Revolutionary War, the War of 1812, the Civil War, the Mexican War, the Spanish-American War and a good part of World War I combined.

When Johnny goes marching off to war he is a great hero. Flags wave, drums roll and the crowds cheer.

His homecoming, however, after months and years of unimaginable hardship and danger, is a very different thing. In a few cases he is a hero but in most instances he quickly becomes just another guy who may need continuing medical help—who may have a problem finding a job—and, who in every case has lost invaluable years of his life during which he could have been training and preparing himself to meet the serious economic problems of modern living.

Fortunately, in this country since the conclusion of World War II, we have treated our veterans ten times as well as they were treated after any previous war. And now that we are creating an untold number of millions of new veterans, it is interesting to study a report just released by the Veterans Administration. This describes the assistance which has been, and is being, given veterans, including those of the Korean War. Here are some salient and impressive facts:

Living Veterans .....	18,857,000
Veterans now receiving training .....	1,601,027
Veterans who have received training .....	5,984,291
Veterans who have secured loans:	
Business Loans .....	131,948
Farm Loans .....	60,191
Home Loans .....	2,375,469
Total .....	2,567,608

Amount of loans approved for guaranty on insurance	\$ 14,679,897,000
Number of loans paid in full .....	245,362
Net loss in default loans .....	\$23,039,000
Disability, Compensation or Pension Cases (all wars) .....	2,366,152
Housing aid to paraplegics .....	\$15,628,385
Life insurance policies, face value .....	\$165,961,257,000
Number of policies in force .....	6,321,001
Face value of death claims allowed .....	\$4,146,321,000
Applications for hospital care during March .....	71,149
Patients in VA hospitals .....	98,421
New hospitals complete or in progress .....	66
New hospital sites acquired .....	66
Hospitals under conversion .....	50

A grateful nation can certainly be proud of the above statistics. The credit for the full extent of all the aids and services above statistically enumerated must be divided between a properly beneficent Congress and vigorous, statesman-like veterans organizations. In spite of "politicking," the net result has been a remarkably effective job of educating our returning boys, meeting their medical needs, providing them with life insurance, assisting them in setting up businesses, and most important of all, adequately housing two and one-half million of them.

Here is where the home-building industry comes in for its accolade. Certainly no other industry segment has made a fraction of the contribution which has been made by home builders—starting with the early drafts of the legislation, through the difficult interpretation of the regulations, and culminating in the construction of sound, attractive, modern American homes of modest size and cost. The veterans' dreams of homes of their own have indeed come true in every city, town and hamlet throughout the country.

## 100,000 Goal in 1951 Set by Prefabricators

Delegates of 35 housing manufacturers discussed the role of prefabrication in the defense housing program with government and industry officials at the eighth annual meeting of the Prefabricated Home Manufacturers' Institute April 9-10 in Louisville, Ky.

Institute officers said the industry, which turned out a record 55,000 dwellings in 1950, has set a goal of 100,000 this year.

Raymond M. Foley, Housing and Home Finance Agency administrator, discussed the defense housing program at a convention luncheon. Other guest speakers included Clarence W. Farrier, housing research authority and consultant to HHFA's division of housing research; Serge A. Birn, consulting management engineer; and Bradford B. Smith, United States Steel Corp. economist.



**NEW OFFICERS** of Prefabricated Home Manufacturers Institute, elected at 8th annual meeting April 10 at Brown Hotel, Louisville, Ky. (from left): Robert E. Ott, secretary-treasurer; William B. F. Hall, vice president; and John C. Taylor, Jr., president

A panel discussion on the building materials outlook was moderated by John C. Taylor, president of American Houses, Inc., New York City, and newly-elected president of the institute. Panel members were Lawrence Ottinger, president, United States Plywood Corp., New York City; Wade W. Hildinger, director of trade relations, National Gypsum Co., Buffalo, N.Y.; and Walter J. Wood, vice president in charge of sales, E.L. Bruce, Co., Memphis, Tenn.

Other officers elected at the meeting were William B.F. Hall, president of General Industries, Inc., Fort Wayne, Ind., vice president; and Robert E. Ott, general manager, house division, Harnischfeger Corp., Port Washington, Wis., secretary-treasurer.

### Buffalo Executive Resigns

George F. Brunner has resigned as executive vice president of the Niagara Frontier Builders Association and the Buffalo Real Estate Board to become vice president in charge of customer relations for the Abstract and Title Insurance Corp. of Buffalo.

## Install Officers at Detroit Banquet



**CURRENT LEGISLATION** was topic of W. P. Atkinson, National Association of Home Builders president, in address at annual banquet and officer installation of Builders Association of Metropolitan Detroit. Also at speaker's table are (center) Dr. Philip Wernette, Michigan State College economist, who spoke on current events from an optimistic point of view, and Frederic W. Gerhardy, newly-installed Detroit president. Around 800 persons attended.

Frederic W. Gerhardy, president of Gerhardy Construction Co., is the new president of the Builders Association of Metropolitan Detroit. He succeeds John Weinhart who led the group to an active year in 1950.

Other officers are Edward W. Pratt, first vice president; Carl Lundblad, secretary; James Rossin, treasurer; and

four vice presidents, John D. Harrison, William J. Clark, Nathan Silverman and Covert Robinson.

Gerhardy, former association secretary, has been chairman of the labor committee since 1947. He has been in the building business 35 years and is reported to be one of the largest employers of direct labor in the Detroit area.

## Indiana Dealer Executive Committee



**EXECUTIVE** committee for 1951-52 of Indiana Lumber and Builders' Supply Association (from left): Howard W. Bolinger, Terre Haute; Dave M. Puckett, vice-president, Princeton; John C. McCormick, president, Lawrence; Delmar Martin, vice president, Attica; and Robert McCutchan, Lebanon. Election took place at recent convention in Indianapolis.

### Field Investigator Named By St. Louis Builders

A former newspaperman, Sam Kalman, has been named field investigator for the housing research committee of the Home Builders Association of Greater St. Louis. Laurence E. Neville, executive secretary, has reported.

The committee, headed by Earl Bumiller, former association president, is exploring methods of meeting low-cost, low-rental housing needs in the St. Louis area. Neville said Kalman would coordinate data from municipal, state and Federal agencies and conduct special investigations.

Kalman is former editor of the Overland Record-News and has also done public relations work.

# *Beauty*

## is Achieved with **VIBRAPAC** **BLOCK**



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

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

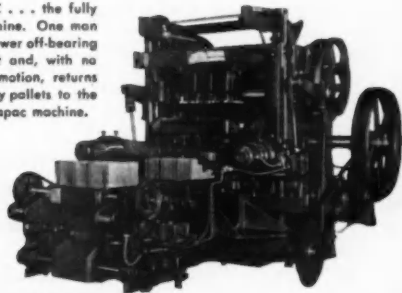
Sell your customers on the BEAUTY as well as PERMANENCE of Vibrapac Concrete Masonry for both exterior and interior construction. It assures a lifetime of better, safer, more satisfactory living.

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

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



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



# **BESSER**

**BATCH  
MIXERS**

**SKIP  
LOADERS**

**BLOCK & BRICK  
CUBERS**

**SUPER  
VIBRAPAC**

**SINTERING  
PLANTS**

**ACROW  
CENTERS**

**ROOF TILE  
MACHINE**



### Better for structural work

Less mixing water is required for a given slump when you use Duraplastic air-entraining portland cement. The resulting concrete is more plastic, more workable, more cohesive and uniform. This aids proper placement and improves surface appearance of both structural and mass concrete jobs. This is especially important when columns are heavily reinforced as shown in photograph.

### Makes more durable concrete

When Duraplastic is used for structural concrete, billions of tiny entrained air bubbles minimize water gain and segregation. Thus the finished concrete is fortified against the effects of freezing-thawing weather. That's why, for over a decade, an increasing number of construction men continue to specify Duraplastic for their structural 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.

OFFICES: Albany, Birmingham, Boston, Chicago, Dayton, Kansas City, Minneapolis, New York, Philadelphia, Pittsburgh, St. Louis, Waco.

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

AB-D-123

ATLAS®

# DURAPLASTIC

AIR-ENTRAINING PORTLAND CEMENT



Makes Better Concrete at No Extra Cost

"THE THEATRE GUILD ON THE AIR"—Sponsored by U.S. Steel Subsidiaries—Sunday Evenings—NBC Network



# How to raise value

## WITHOUT raising the "lid"!



Even when there's a definite "lid" on home building costs, you can still increase eye-appeal—salability. The answer is Curtis Woodwork. It adds the extra distinction that means extra value—at a cost that fits comfortably into a modest building budget. Here are the reasons why:



**It's hard to believe** that this beautifully proportioned Curtis entrance with its fine detailing is so reasonably priced. This design—No. C-1742—shows why Curtis entrances provide more for the money. Frame is of durable ponderosa pine with oak sill, and consists of cap, jambs, casings, pilasters, architraves, plain or threshold sill and apron.



**There's no need to forego** the charm of a well designed mantel—if you choose a Curtis design. This mantel—C-6074—is of Colonial origin, but differs decidedly from those of the eighteenth century, reflecting the changes of our modern living. It follows that trend, without sacrifice of beauty and detail. The bowed fascia accentuates its charm.



**Distinguished storage space** is easy to provide—at modest cost—with a Curtis cabinet like this. The fibrous composition molded "shellback" may be painted a different color than the cabinet. There are three scalloped and molded edged shelves above counter and one in lower compartment. Made only for corner installation. Design C-6515.

*You'll want illustrated literature describing Curtis Woodwork and Silent Windows. Just mail the coupon!*

Curtis makes a complete line of architectural woodwork and kitchen cabinets for the modern home. Make your next house "all Curtis."




Curtis Companies Service Bureau  
AB-6W Curtis Building  
Clinton, Iowa

Please send me literature on Curtis Architectural Woodwork.  
I am ( ) architect, ( ) contractor, ( ) prospective home builder,  
( ) student. (Please check above)

Name.....


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



as fundamental as  
built-in plumbing...



Leo L. Fischer, Architect



*A good house  
is always better  
when it includes  
conduit for  
telephone wires.*

You wouldn't think of building a home without concealed *water pipes*. Yet without telephone raceways, there's always the chance that *telephone wires* will be exposed.


To protect the beauty of thoughtfully planned interiors, it's always wise to provide built-in telephone raceways.

Your Bell Telephone Company will be glad to help you plan economical telephone conduit installations.

Just call your nearest Business Office.

**BELL TELEPHONE SYSTEM**





*Modern...in design...in application*

**The ideal floor for use over concrete slab or wood subfloor**

Bruce Block Floors fit right in with modern design and modern construction. From an appearance standpoint, they give smart style and decoration along with the natural, friendly beauty of hardwood. Structurally speaking, Bruce Blocks are most practical and economical because they can be laid in mastic over the concrete slab. Or they can easily be blind nailed over wood subfloors or old wood floors.

Owners find these solid hardwood floors warm, quiet and comfortable underfoot . . . and so easy to keep clean and shining at all times. They're thrifty, too . . . will last the life of a home or building. Even after many years of hard service, all their original beauty can be restored by refinishing.

See our catalog in Sweet's Files, and write for new color booklet on "Modern Hardwood Floors of Bruce Blocks."



PRODUCT OF E. L. BRUCE CO., MEMPHIS 1, TENN., WORLD'S LARGEST MAKER OF HARDWOOD FLOORS

Other Bruce Products: Ranch Plank, Strip, Random-width Flooring • Lumber and Wood Parts • Terminix • Floor Cleaner, Waxes, Finishes.

next month...

*National Lock Company*

will announce

a significant addition

to the rapidly broadening line

of quality

**NATIONAL LOCK** hardware



*"all from 1 Source"*

**NATIONAL LOCK COMPANY**

ROCKFORD, ILLINOIS • MERCHANT SALES DIVISION



**Homes Sell Faster  
More  
Profitably...**



**When You Feature the  
Consumer Advantages of**

# ZONOLITE PLASTER!

Builders in every section of the country are finding—even in these days of housing restrictions—that they can sell homes in every price bracket, in *less time and make a better profit* . . . when they emphasize the *consumer advantages* of Zonolite vermiculite Plaster Aggregate.

**SELL THE EXTRA FIRE SAFETY OF ZONOLITE PLASTER!**

It blocks the spread of fire up to 4 times longer than other materials. Many a home has been saved from complete destruction because Zonolite plaster kept the fire confined until help arrived. Zonolite plaster is the most firesafe material you can use for walls and ceilings.

**SELL NEW TOUGHNESS AND RESISTANCE TO CHIPPING!**

Lightweight Zonolite plaster is so tough and resilient you can drive picture nails and hooks into it without chipping!

**SELL ADDED INSULATION VALUE!**

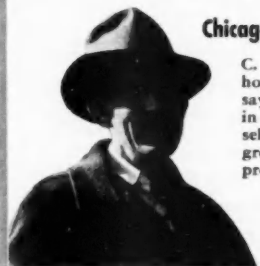
Zonolite plaster gives added insulation value on walls and ceilings, a real plus value.

If you are *now* using Zonolite vermiculite Plaster Aggregate . . . don't miss one of the top sales features in your homes. Let the prospect know just how much better your home is *because of Zonolite!* Tell him, you'll sell him! If you *haven't* used lightweight Zonolite plaster . . . get the full story of this amazing feather-light aggregate by mailing this coupon *now!*

## ZONOLITE COMPANY

135 S. La Salle Street, Chicago 3, Illinois

**Chicago Builder Lauds Zonolite®**



C. E. Adrian, whose Chicagoland homes feature Zonolite plaster, says, "Zonolite vermiculite plaster in my homes gives me an unusual selling feature. I find customers greatly impressed with Zonolite's properties."

**ZONOLITE**  
BRAND  
**VERMICULITE  
AGGREGATES**

**MAIL  
COUPON  
NOW!**

Zonolite Co., Dept. AB-61  
135 S. LaSalle St., Chicago 3, Ill.

Gentlemen:  
Zonolite plaster certainly sounds good to me! Send me full details right away.

Name.....

Company.....

Address.....

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

# In July . . .



"Home is no longer a house on a lot," says July *House Beautiful*, "but a highly integrated, highly organized living space that extends from lot line to lot line and grows out of the natural landscape."

A well-illustrated, analytical editorial presentation follows which is of great significance to the building trades—a practical new American point of view in connection with design and the use of materials. "Merging indoors and outdoors," the July issue explains, "is the logical answer to the social and economic pressures of our times. To offset the shrinking size of our houses, we convert garden space into usable living space. To make small houses seem larger than they are—on the inside—we open up whole walls with glass. Once the visual barrier is removed we design indoors and outdoors so they will flow together with natural continuity."



Watch for this important story on "outdoor living rooms" and transparent walls . . . on extending indoor living space either actually or visually. And make a point of using it to advantage in your sales program. Remember, it's neither a fad nor architectural whimsy. It's a long-term trend, constantly gaining momentum.

## **IN JULY—a check list for hot weather comfort . . .**

*House Beautiful* is publishing another factual Climate Control feature in its July issue—a timely check list of ten hot weather "troubles" which rob houses of their comfort. Explained in detail are the reasons for each, remedies for existing houses, and recommendations for minimizing them in new home planning. You'll find on the list up-to-the-minute information on what to do about: air in house that's hotter than air outdoors, warm ceilings, warm walls, windows that let in too much sun and sky glare, air that's too humid, a house that's located in an extra hot neighborhood, etc.

## **NEW GOVERNMENT RESTRICTIONS**

***It's all there in July House Beautiful — what the home builder should know about new Government restrictions. Analyzed by Miles L. Colean, House Beautiful's Building Adviser, and explained in clear, easy-to-understand language, it's a complete presentation of the facts — about both restrictions on materials and credit controls. Watch for it.***

# INDOOR-OUTDOOR MERGER...

**In July, it's brand name promotion time. Use these helpful trade messages from best sellers on House Beautiful's advertising pages for ideas.**

Builders like **BALSAM-WOOL SEALED INSULATION** because it is wind-proof, protected against condensing vapor, vibration-proof, easy to apply, and non-irritating. **BALSAM-WOOL'S** money back guarantee, plus consumer acceptance, makes it the best insulation buy. Literature and samples available. Wood Conversion Company, First National Bank Building, St. Paul, Minnesota.

**MASONITE HARDBOARD**, which is used to make good furniture better, is the same versatile material available through lumber dealers. It is a favorite for exterior and interior walls, ceilings, cabinets and fixtures, for modernizing and new construction.

In selling wall-to-wall carpet, the accent is on beauty in the customer's home. **ROBERT'S "SMOOTHEDGE" CARPET GRIPPER** assures flawless installation, eliminating tack marks and ripples that show when carpet is installed turn and tack. "Smoothedge" is a plus value that helps sell more wall-to-wall carpet.

New important **COMBINATION WINDOW** refinements — an **"ORANGE" STORM WINDOWS & SCREENS!** The incomparable sliding panel design of the Orange Easy-Glide and Triple-Slide Windows makes for quick, easy changes from the inside. Panels self-starting. Easy-Glide — of redwood. Triple-Slide — of aluminum. "Orange" All-Weather Model — leader in low-priced field.

**In July, put House Beautiful to work for your business by using mounted display cards and mats for tie-in newspaper advertising. Both are available FREE OF CHARGE.**

The importance of color in the home emphasizes **PRE-FAB VENETIAN BLINDS**. **EASTERN PRE-FAB VENETIAN BLINDS** offer all the features the consumer wants . . . enclosed all-metal head, flexible metal slats, and one-piece bottom rail with snap-on tape clamps. 14 colors in DuPont Plastics. Custom-made by Eastern Machine Products Company's Pre-Fab custom-manufacturers.

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

Kitchens and small rooms must be ventilated at the ceiling level to do a thorough job. **TRADE-WIND CLIPPER VENTILATORS** come in two types, for installation in a cabinet over the stove or in the ceiling. Both provide complete, quiet ventilation, are simple to install and give years of trouble-free service.

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-7, Camden, New Jersey.

**STEINHORST** — the oldest name in **FREEZERS** — is inaugurating a series of advertisements in House Beautiful featuring their exclusive "Dutch" Freezer Plates which hold cold like a Dutch Oven holds heat. Emil Steinhorst & Son, Inc., 612 South Street, Utica 3, N. Y.

**THERMADOR BILT-IN ELECTRIC RANGE** is the most wanted range in America, today. Consistently featured editorially, advertised regularly in House Beautiful and other consumer magazines. Write for complete literature on the Bilt-In Range, and on other fine Thermador electrical products, including Water Heaters, Portable Heaters, Bathroom Heaters, and Conventional Ranges. Thermador Electrical Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.

An all-metal factory fabricated **MAJESTIC OUTDOOR FIREPLACE UNIT** around which purchaser can build any type or design of fireplace — and of materials to individual preference. Easy to do. Low cost. Really fun for entire family. Variety of sizes. Also various accessory equipment. Helps to transform yard into an outdoor living room.

It's Crabgrass season! And folks are shopping for **SCUTL**. It's **SCOTT'S** unique dry compound that destroys Crabgrass without injuring or even discoloring good lawn grasses. Several applications by hand or with spreader does the trick. No mixing or fusing with sprinkling equipment. Economical . . . box, 79c; \$1.95 . . . bag, \$5.85.



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

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

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

- 1. BALSAM-WOOL SEALED INSULATION
- 2. BLUE RIDGE PATTERNED GLASS
- 3. GENUINE CLAY TILE
- 4. ROMANY TILES FOR BATHROOMS
- 5. ROBERTS SMOOTHEDGE TACKLESS CARPET INSTALLATION
- 6. EASTERN PRE-FAB VENETIAN BLINDS
- 7. ORANGE COMBINATION WINDOWS
- 8. THERMOPANE WINDOWS
- 9. GENERAL ELECTRIC DISPOSALL
- 10. CHURCH SEATS
- 11. CHURCH WALL TILE
- 12. CRANE BATHROOM FIXTURES
- 13. ELKAY LUSTERTONE SINK
- 14. KOHLER OF KOHLER BATHROOM FIXTURES
- 15. AMERICAN-STANDARD AIR CONDITIONING
- 16. AMERICAN-STANDARD BASEBOARD HEATING

- 17. BRYANT AUTOMATIC HEATING
- 18. EDCO OASIS AIR DRIER
- 19. CARRIER AIR CONDITIONING
- 20. MUELLER CLIMATROL
- 21. TORRINGTON VAIRIFIED AIR IMPELLER
- 22. TRADE-WIND CLIPPER VENTILATORS
- 23. WEBSTER BASEBOARD HEATING
- 24. WILLIAMSON WARM AIR FURNACE
- 25. WILLIAMS OIL-O-MATIC OIL BURNER
- 26. PHILCO HOME FREEZER
- 27. STEINHORST FREEZERS
- 28. THERMADOR BILT-IN ELECTRIC RANGES
- 29. K-VENIENCES FOR KITCHENS

- 29. NATIONAL TUTCH-LATCH
- 30. STERLING HARDWARE
- 31. CUTLER-HAMMER MULTI-BREAKER
- 32. WEST DODD LIGHTNING PROTECTION
- 33. DOWFLAKE
- \* MORTELL NO-D RIP TAPE
- 34. HABITANT RUSTIC WOOD FENCE
- 35. RUSTICRAFT WOVEN PICKET FENCES
- 43. SCOTT'S SCUTL
- \* MAJESTIC OUTDOOR FIREPLACE UNIT
- 60. MASONITE HARDBOARD

\* No Card Available.

"Seen in House Beautiful" mat

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

ZONE \_\_\_\_\_

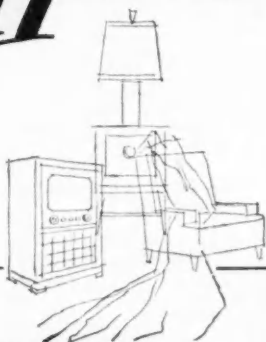
STATE \_\_\_\_\_

AM.B. JULY

SET YOUR PLANS NOW to tie in with Chicagoland's

Fifth Annual  
**HOME AND  
 HOME FURNISHINGS  
 FESTIVAL**

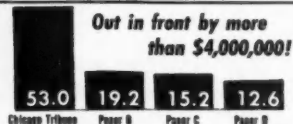
SEPTEMBER 16—OCTOBER 7



**Sponsored by  
 16 Trade Groups!**

The following 16 trade groups sponsor the Chicagoland Home and Home Furnishings Festival, in cooperation with the Chicago Tribune.

- The American Furniture Mart
- Chicago Floor Covering Association
- Chicago Furniture Manufacturers Association
- Chicago Metropolitan Home Builders Association
- Chicago Retail Furniture Association
- Chicago Retail Merchants Association
- Electric Association
- Furniture Fabric Men's Association
- Lamp Manufacturers Association
- Manufacturers Agents Club
- The Merchandise Mart
- National Association of Bedding Manufacturers
- National Association of Music Merchants
- National Retail Furniture Association
- Peoples Gas Light & Coke Company
- State Street Council



Retail and general advertisers of home merchandise in 1950 placed in the Chicago Tribune \$7,028,634, or 53.0% of their total promotion funds in Chicago newspapers. This was \$4,478,668 more—175.6% more—than they placed in any other Chicago newspaper—and for more than they placed in all other Chicago newspapers combined.

**P**LAN NOW so that you and your dealers can share in the extra sales to result from the Chicagoland promotional event which last year attracted more than 1,000,000 visitors. Again, for the fifth consecutive year, this sales producer will offer you opportunities too inviting to pass up.

New Festival homes demonstrating the latest equipment and designs are now being completed throughout Chicago and suburbs. When finished, many of them will be fully furnished and decorated to show your industry's newest offerings of interest to the home-minded.

**Special Chicago Tribune  
 Festival supplement**

Again the Chicago Tribune will announce the promotion on Sunday, September 16, in a Festival supplement

highlighting the attractions on display for the more than 1,000,000 Chicago Sunday Tribune families in Chicago and suburbs.

During each of the past four years, this Festival promotion has helped make Chicago the nation's most intensively pre-sold market for home merchandise. As Chicago's Number One sales producer for your industry, the Chicago Tribune can help you get your full share of the spending to be developed during this promotion.

**Now is the time to plan  
 advertising tie-ups**

Forms for the Festival supplement will close on Friday, September 7. Early planning will enable you to work out sales details with your dealers. Consult with your advertising counsel today, or ask a Chicago Tribune representative to call.

**CHICAGO TRIBUNE**  
*The World's Greatest Newspaper*

CHICAGO TRIBUNE REPRESENTATIVES:

- |                    |                    |                 |                          |                          |
|--------------------|--------------------|-----------------|--------------------------|--------------------------|
| Chicago            | New York City      | Detroit         | San Francisco            | Los Angeles              |
| A. W. Dreier       | E. P. Strubbsucker | W. E. Bates     | Fitzpatrick & Chamberlin | Fitzpatrick & Chamberlin |
| 1333 Tribune Tower | 220 E. 42nd St.    | Penolscot Bldg. | 155 Montgomery St.       | 1127 Wilshire Blvd.      |

AMERICAN BUILDER





## Letters to the Editor

### Not FHA Approved

Sir: Reference is made to the second paragraph, page 186, of April 1951 issue of the *American Builder*, where you will find the following sentence: "The (radiant glass heating) panels have been tested and approved by FHA, The Electric Testing Laboratories and many leading electrical utility firms throughout the country."

The Federal Housing Administration does not approve manufactured products or other items which go into the construction of a property which may be the security for a mortgage insured under the National Housing Act. The authority of this Administration is limited to the insurance of mortgages and the fact that a particular product may be included as part of the security does not justify the representation that such products are approved by this Administration.

Curt C. Mack,  
Assistant Commissioner,  
Underwriting, FHA,  
Washington, D.C.

We can assure you we thoroughly understand that FHA never recommends or approves any products. They may be acceptable to FHA when incorporated in properties otherwise acceptable for FHA-insured mortgages. As is usual in cases of this type, the error in terminology was made in the original manuscript and went the entire route of production without being caught.—The Editor

### Eave Framing Design

Sir: A thought presents itself in simplifying the design of eave framing. By housing the ceiling joists four inches in the concrete block backing of the wall, only a short two inches of the rafter plate overlap the top of the joists. This leaves a very short space for spiking the plate to the joists and I wonder if this might not present a weakness when the weight of the roof produces a thrust that the spikes might not hold. There is, of course, a knee-wall back about six feet which can be counted on to relieve some of this thrust by taking the weight off the roof. It occurs to me that this condition might be

aided if the ends of the joists were cut so that the upper edges would be extended to house partly in the brick facing and give a 4-inch bearing for the plates and spikes attaching them to the joists. This might complicate bricklaying a bit, but not too much. I realize that joists in masonry are usually firecut in exactly the opposite manner, but since no masonry above the joist ends is involved, it appears the reversal cannot be harmful.

John Montgomery Mahon,  
Harrisburg, Pa.

We believe it will be perfectly in order to reverse the end cut of the joist so that it is possible to get a greater bearing for the 2x6 plate upon the ceiling joist.—The Editor

### Floor Joist Heat Ducts

Sir: Do you have any information on heat ducts which are formed by covering the space between floor timbers with sheet iron or some other heat-resisting material applied to the bottom edges of these timbers?

S. L. Smith  
Westerly, R. I.

In most cases where this method has been used a rectangular duct is placed between the joists in order to save ceiling height in the basement. This area is also used as a return duct and a sheet of metal or a piece of asbestos is secured to the underside of the joists in order to enclose this area.—The Editor

### Flat Roof Information

Sir: After reading your article "A Vote for Flat Roofs" in the February issue of your magazine, I would like more information concerning flat roofs. My husband and I plan to build a house; we have always liked this type of roof. We would like to know why more homes of this type have not been built, especially in this part of the country. Are they cheaper to build? What are their advantages and disadvantages?

Mrs. Percy E. Phillips  
Delmar, Dela.

Basic changes in houses do not come rapidly. One of the reasons the flat roof house did not achieve

(Continued on page 202)



Arch Paul Drake  
Summit, N J

**LESS COST...**  
**MORE APPEAL...**

with  
**CABOT'S  
CREOSOTE SHINGLE  
STAINS**

You save time and labor . . . give variety to your houses . . . when you use Cabot's Stains. Cost  $\frac{1}{4}$  as much as good paint — go on quicker and easier — provide lasting protection. 60-90% of refined creosote oil — best wood preservative known — penetrates deeply — protects against termites and decay.

Cabot's Shingle Stains come in a wide range of colors from clear, brilliant hues to weathering browns and grays. Many are unique and available from no other source.



*Write Today*

for Cabot's Creosote Stain Color Card and complete information. Samuel Cabot, Inc., 631 Oliver Bldg., Boston 9, Mass.

**CABOT'S  
CREOSOTE STAINS**

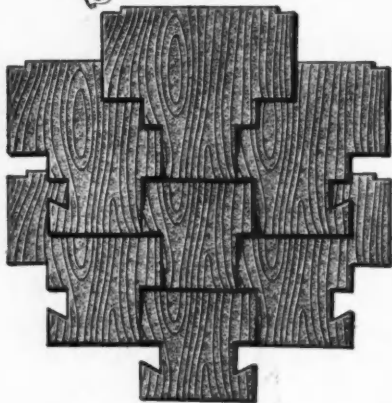
# See what we mean

WHEN WE SAY

## TEX-LOK is...

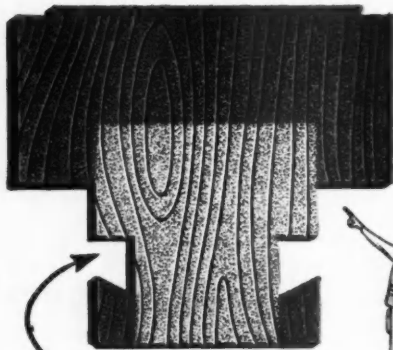


### INTERLOCKING!



This interlocking type shingle has been tested in every weather—and has weathered every test! Self-aligning plus interlocking makes for easy, fast application. Concealed nailing at four points plus interlocking means TEX-LOK is locked down to stay put!

### DOUBLE COVERAGE!



ONLY 42% EXPOSURE

It's a fact—only 42% surface of each TEX-LOK is exposed to the weather. (See light area on shingle above.) So—it's double coverage *plus*. An average of more than two interlocking thicknesses of rugged asphalt shingles over the entire roof area.



## THERE'S NO BETTER SHINGLE VALUE ON THE MARKET TODAY!

Heavy duty, double coverage, interlocking—and fire-resistant. For new construction or re-roofing, for farm and commercial buildings. Good-looking on the roof, too. In a selection of beautiful colors, plain or textured surface.

And—TEX-LOK carries the name that millions know and trust—TEXACO. There's

no finer name in roofing. *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



Another top-performing Texaco asphalt shingle — TEX-LATCH. Heavy duty, double coverage, interlocking — similar to Tex-Lok except in method of locking tabs. Available in the areas served from the Edge Moor, Delaware roofing plant.



**TEXACO**  
Asphalt  
Roofing Products  
THE TEXAS COMPANY

MEMBER OF THE  
ASPHALT ROOFING INDUSTRY BUREAU

AMERICAN BUILDER



**NOTHING LIKE IT  
ON THE MARKET!**

An outdoor-type temperature  
control providing compensation  
for **WIND EFFECT**



## COMFORT CONTROL SYSTEM

**... ONLY ONE ADJUSTMENT REQUIRED**

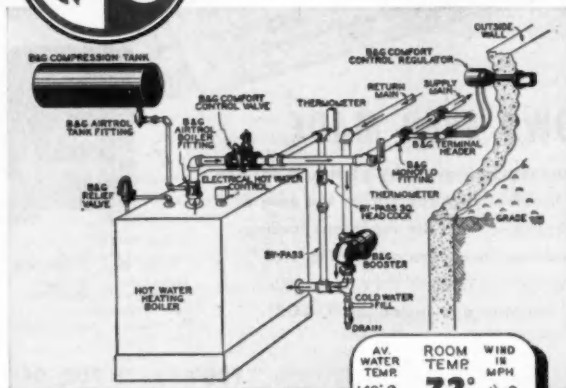
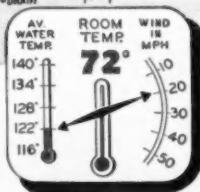


Diagram above is a typical installation of a B & G Comfort Control System, showing piping details and position of Regulator and Control Valve. Lower diagram illustrates how water temperature is varied to meet changing wind and weather conditions.



Utterly different—completely successful in maintaining uniform, comfortable temperatures in buildings heated with forced hot water, using radiant panels, radiators, convectors or baseboards. This outdoor-type control is entirely mechanical in operation—no bellows, capillary tubes or fragile electronic equipment.

The B & G Comfort Control System not only detects changes in outdoor temperature and regulates the heat supply to maintain a uniform indoor temperature, but also provides compensation for changing wind conditions!

An exclusive feature is the unique arrangement whereby a small amount of heat is conducted from the heating circuit through the Comfort Control Regulator to the outdoors where it is dissipated at a rate dependent upon temperature and wind velocity. This is the feature which makes the Comfort Control System truly wind-compensating.

After installing, the B & G Comfort Control System requires only one adjustment—easily made by turning a single dial.

Send for  
descriptive literature

All the facts on the B & G Comfort Control System are given in this bulletin, including charts showing results of temperature control with and without wind compensation.



**BELL & GOSSETT**

Dept. CB-11, Morton Grove, Illinois  
Canadian Licensee: S. A. Armstrong, Ltd.,  
1400 O'Connor Road, Toronto, Canada

*Company*

# THE WINDOW YOU'RE *Sure of!*

**Auto-Lok**  
PATENTED  
*weatherstripped*  
**AWNING WINDOWS**  
**ALUMINUM or WOOD**

When you install AUTO-LOK awning windows, you're sure of customer satisfaction. Sure that air-infiltration will be reduced to an absolute minimum. Sure that window maintenance costs will be phenomenally reduced, and operational ease assured for the life of the building. Sure that you will be providing a closure **ten times as tight** as generally accepted standards, indeed the

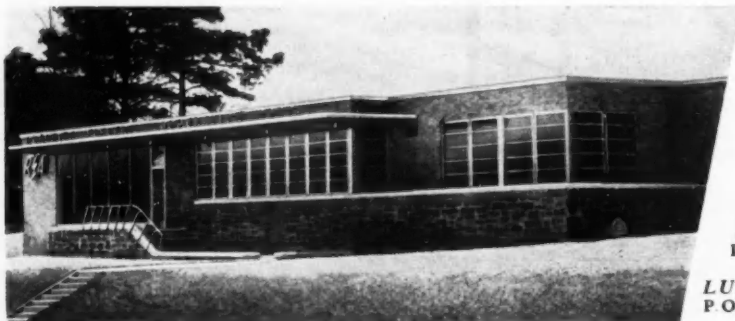


it's  
sealed  
like a  
refrigerator

## TIGHTEST CLOSING WINDOWS EVER MADE

Best of all, it is easy for you to demonstrate, convincingly, why all this is so. As you are aware, merely weatherstripping a window isn't enough. In the case of AUTO-LOK, vinyl plastic weatherstripping combines with the ingenious locking action of patented, precision AUTO-LOK hardware to create a "floating seal." Your customers will readily understand why they'll have true protection against all climatic extremes, regardless of whether you install AUTO-LOK in aluminum or in wood.

Pictured below:  
Ouachita Rural Electric  
Admin Bldg., Camden, Ark.  
Arch.: Easthart, Eichenbaum  
& Rauch, Little Rock, Ark.  
Gen. Contractors:  
H. Daugherty Construction Co.  
Little Rock, Ark.



### YOU'RE SURE, TOO, OF:

Maximum visibility.  
Ventilation even in rain.  
Cleaning from within.  
Fuel and air-conditioning economies.  
Elimination of "cold spots" near windows.

#### SEE HOW

THE "FLOATING SEAL" WORKS  
Request a personal demonstration, and write for free folder, "What Is Important in a Window?" Please address Dept. AB-6

**LUDMAN CORPORATION**  
P. O. Box 4541 Miami, Florida

AMERICAN BUILDER



# and OFF the Record

News, Views and Comments

**CROOK AT LARGE**—On page 166 of this issue is an article concerning Leonard Caldwell Nelson. It is urged that you read it. Nelson, an exconvict, has been doing a tidy business taking builders and retail lumber dealers for sizable sums of money.

**FBI**—Last August the FBI agents in Chicago asked *American Builder* to publish a photograph of Nelson with a background of his activities and methods of operating. The editors were pleased to comply, and published the desired information in the September issue.

**NELSON**—Just a few days before the issue arrived in his office a Texas builder had been taken by an employee who cashed company checks and got away with the cash. The builder recognized his late employee as the one shown in the photograph—the man known as Leonard Caldwell Nelson and various aliases, who was wanted by the FBI.

**FBI AGAIN**—Recently, FBI agents requested *American Builder* to publish the information again, since Nelson is still at large and operating.

**INFORMATION PLEASE**—Anyone knowing anything about Nelson is urged to send the information immediately to his nearest FBI office or to *American Builder*. Since Nelson seems to specialize in preying on dealers and builders, *American Builder* will be very glad to do anything it can to aid in trapping Nelson.

**BOOKLET**—Major Hamilton A. Long, veteran of both World Wars, recently published a pocket-size documented booklet dealing with the infiltration of Communists in the armed services. It is a hair-raiser, and points up the danger of Communist influence as no other document has done. Publisher is Post Printing Co., 18 Beekman St., New York 7, N. Y.

**FRANK LOPEZ**—He is senior associate editor of *Architectural Record*. At the inter-industry conference in Washington he said in effect that it is questionable as to who is to say what kind of housing people are to have. For example, provision for privacy is generally considered one of the requirements of good contemporary design. But there are many people who

don't want privacy, and would be unhappy if it were forced upon them. The architect designing a housing project is comparable to a public health officer, and is justified in forcing certain changes where they are clearly beneficial. Otherwise, he should make every effort to conform to the habits and preferences of the people who will live in the houses. Sounds like a lot of good sense.

**PRICE CONTROLS**—A. Z. Nelson, lumber economist, recently denied that lumber price controls have curbed inflation in either war or peace. Supply and demand, he says, is a better regulator. The article appeared in the February issue of the *American Forests*, magazine of the American Forestry Association, Washington, D. C.

**LABOR**—It doubts that the 10 to 12 per cent permissible pay raise will be enough to offset inflation.

**INFLATION**—If it continues, unchecked labor leaders and others can be depended upon to clamor for stricter controls of prices.

**THE DANGER**—If such controls are imposed, socialistic bureaucrats will again be in the saddle regimenting all business with the inevitable paralysis that follows.

**MATERIALS SUPPLIES**—Production controls of building materials have nothing to do with military requirements. With national production increased about 75 per cent above the total during the war, and with military requirements only seven per cent of the current total in March, there is no need to conserve materials at this time.

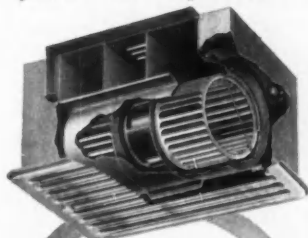
**CHARLES E. WILSON**—He stated that military requirements at the end of this year might reach 15 per cent of total production. That should still permit nearly normal civilian consumption. The reason back of all cut-backs is an attempt to stop inflation.

**INVENTORY BUYING**—It is reported to have begun to slow down in mid-spring. Reason advanced was that fewer people believed World War III to be inevitable, and many believed the inflationary spiral was about arrested.

# Announcing

THE ALL NEW  
**TRADE-WIND**  
TWIN WHEEL  
300 cfm CLIPPER  
VENTILATOR

Model 1501 is packed with features • Sensationally priced • Now in production



DUAL WHEELS  
FITS IN 8-INCH JOIST SPACE  
FULL 300 CFM — CERTIFIED  
EXTRA QUIET OPERATION  
EASIER TO INSTALL  
INTERCHANGEABLE DISCHARGE  
SIMPLIFIED CONSTRUCTION  
STANDARD 3 1/2" x 10"  
FURNACE DUCT

For the first time Trade-Wind offers a twin wheel ceiling ventilator with interchangeable discharge that develops a full, certified 300 CFM, yet is priced competitively with ordinary ventilators. Equally important to you, Model 1501 is now in production and deliveries already are being made.

Write or wire us today for the complete story on the biggest ventilator value in 1951. Mail handy coupon now.

Trade-Wind Motorfans, Inc.  
5705 S. Main St.  
Los Angeles 37, Calif.  
Please rush your Bulletin 625 on the all new Model 1501 Trade-Wind Clipper.

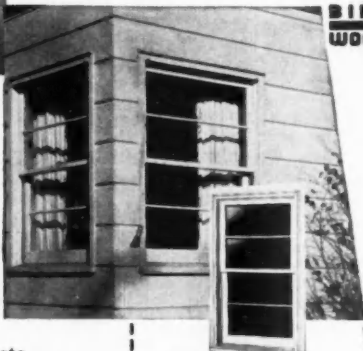
NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_

## **NU-STYLE** CABINETS AND



## **SUPERIOR** WINDOWS THROUGHOUT...

*What a Guarantee of  
Customer Satisfaction!*



**BILT-WELL**  
**WOODWORK**

Successful Builders make it a practice to select fine quality materials that are reasonably priced. It is on this basis that they have built their fine reputation. For this reason they realize greater returns... by giving the customers more for their money... by insuring lower maintenance costs.

Such a Builder is one of Lafayette's leading builders, Mr. L. A. Thise.

Mr. Thise fully realizes that Bilt-Well Woodwork is one of the products he can always depend on to assist him in maintaining his enviable reputation.

**CARR, ADAMS & COLLIER CO.**  
Dubuque, Iowa



**L. A. Thise**, Contractor and Builder of

**Willayne Terrace Apartments**  
Lafayette, Indiana

**Made by the  
Manufacturers of the  
Famous Bilt-Well Line**

*Marbels & Telephone  
Cabinets • Multiple-Use &  
Linen Cabinets • Stair  
Parts • Nu-Style Cabinets •  
Superior Unit Wood Win-  
dows • Exterior & Interior  
Doors • Entrances • Shutters  
• Clos-tite Casements • Carr-  
dor Garage Doors • Basement  
Unit Windows • Louvers &  
Gable Sash • Breakfast Nooks  
• Combination Doors Screens  
& Storm Sash • Corner (China)  
Cabinets • Gli-dor Cabinets •  
Ironing Board Cabinets*

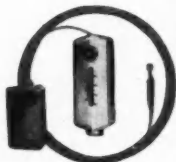


# Proved

in thousands of  
successful installations



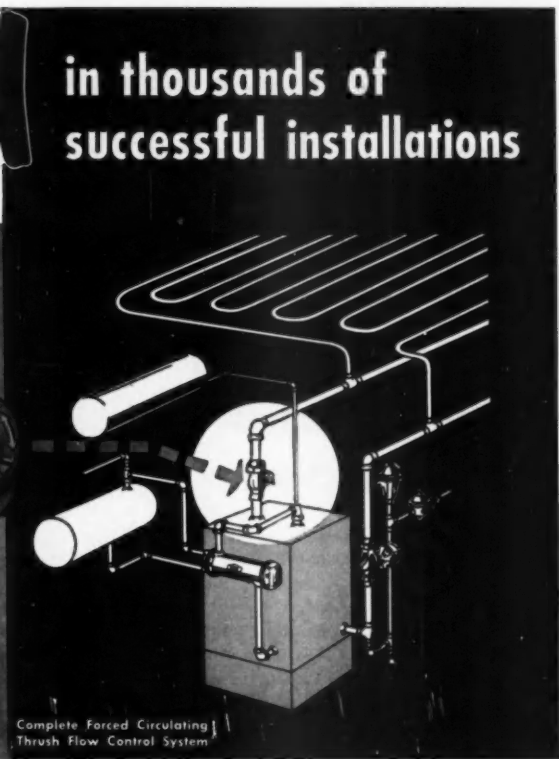
No. 201 Thrus  
Radiant Heat Control



No. 200 Relay  
Transformer



Horizontal Thrus  
Water Circulator



FORCED CIRCULATING FLOW CONTROL HOT WATER HEAT

## Keeps air out of Radiant Coils...

RADIATORS, BASEBOARD AND CONVECTORS

KEEP HOT water heating systems operating at the peak of efficiency by eliminating air at its source. The improved Thrus Flow Control Valve vents air from the boiler. It is really two valves for the price of one because it provides both flow control and air elimination without any extra air tube fitting. Made in the vertical type shown here and also in the angle type to facilitate ease of installation under varying conditions. No other flow control valve has all these features. If you want to give your customers the best in modern radiant hot water heat, specify Thrus Forced Circulating Flow Control System with these valves.

See our illustrated catalog in  
Sweet's or write Dept. G-6.

H.A.

# Thrus

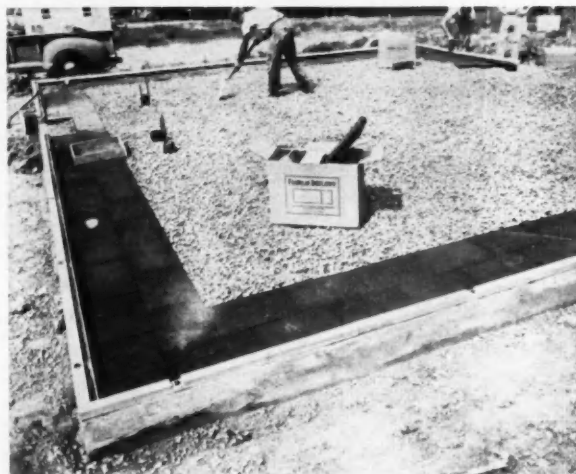
AND COMPANY

PERU • INDIANA



# TECHNICAL GUIDE for Builders and Craftsmen

## Use of Cellular Glass Insulation in Residential Construction



RIGID BLOCKS of Foamglas are easily placed at the perimeter and under slab

**T**HE NEED for functional, comfortable, low-cost homes in the past few years has forced a new emphasis on economy construction. As a result, new building materials have been developed to help make new construction methods both sound and practical. The manufacturers of PC Foamglas, a cellular glass insulation, have carefully studied the problems confronting builders of modern homes, and offer a solution to some of the questions which have arisen in their minds, such as: "How do we insulate the concrete floor slab? How can we insulate a simple masonry wall and yet have a finished interior? How do we go about insulating a flat or semi-flat roof?" These are the questions this article attempts to answer.

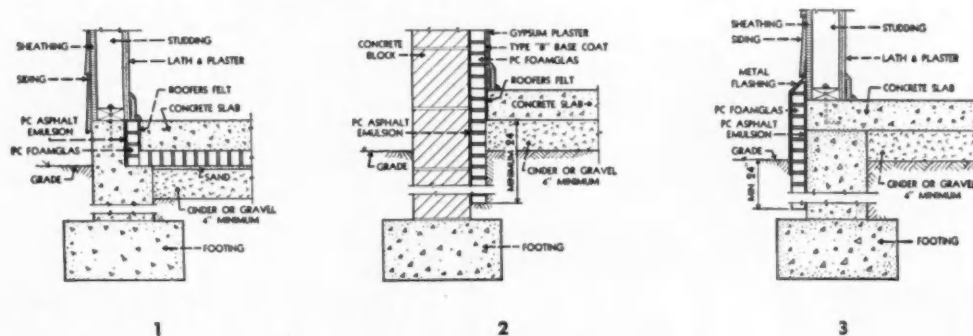
Cellular glass has proven to be a unique product, de-

signed to fit into the modern home. It has high resistance to moisture vapor and water. It is non-combustible and acts as a fire retardant. It is light in weight, easy to cut and shape, impervious to acids, will not pack down when properly installed, and has a long life.

### FLOOR

FHA states that a prerequisite to a successful floor slab installation in a basementless home is the use of at least two inches of insulation between the edge of the slab and the point where it joins the foundation walls. Drawing No. 1 shows the most generally accepted method of insulating a floor slab—cellular glass used at the perimeter

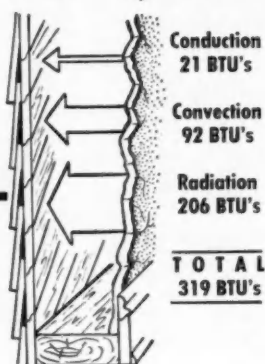
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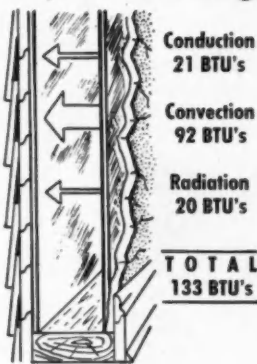
1. FOAMGLAS installed around perimeter of slab. 2. Blocks applied to inner surface of wall. 3. Blocks applied to outer surface



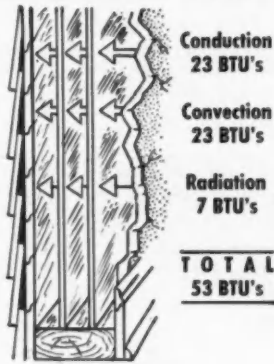
# In an uninsulated wall space, 65% to 80% of all heat flow is by RADIATION



**CASE 1**  
Uninsulated wall space



**CASE 2**  
Inner surfaces lined with  
15% emissive metal



**CASE 3**  
2 sheets of 15% emissive metal  
make 3 reflective spaces

**CASE 1:—An uninsulated wall space.** The surfaces of ordinary building materials, including ordinary insulations, have a Radiation or emissivity rate of more than 90%, a heat ray absorption rate of over 90%. Air has slight density, so Conduction is slight, 21 BTU's. There is nothing to block convection, 92 BTU's. Note: 206 BTU's out of total 319 BTU's going through this wall space was Radiation.

**CASE 2:—The same wall space except that inner surfaces were lined with sheets of metal of 15% emissivity and absorption.** Note drastic drop in heat flow by radiation, from 206 BTU's to 20 BTU's. Conduction and Convection stay the same. Original total of 319 BTU's dropped to 133 BTU's.

**CASE 3:—Two sheets of 15% emissive metal divide the wall space into 3 reflective compartments.** Heat loss by Radiation dropped to 7 BTU's against original 206 BTU's. The 2 sheets blocked Convection so that its flow fell from 92 BTU's to 23 BTU's. Conduction rose only 2 BTU's; from 21 to 23 BTU's. The total flow in BTU's dropped 85% from the original 319, to 53 BTU's.

The aluminum used in multiple sheet accordion insulation has emissivity and absorption rates of only 3%, or 5 times better than the 15% cited. Type 4 Infra, a commercial form of multiple aluminum, has 3 blocks to Convection heat flow, and Type 6 Infra has 5 blocks, against only 2 cited in Case 3.

*NOTE: Figures based on booklet, "Insulating Effect of Successive Air Spaces Bounded by Bright Metallic Surfaces," published by the American Society of Heating & Ventilating Engineers. Free copy will be sent by Infra; just use coupon.*

#### THERMAL FACTORS, TYPE 6 INFRA

Down-Heat C.044, R22.72 equals 7½" DRY Rockwool

Up-Heat C.080, R12.50 equals 4" DRY Rockwool

Wall-Heat C.073, R13.69 equals 4½" DRY Rockwool

VAPOR PERMEABILITY equals ZERO

#### INFRA INSULATION, INC.

10 Murray Street New York, N. Y.  
Telephone: COrtlandt 7-3833

INFRA INSULATION, INC.  
10 Murray Street, New York, N. Y.

Dept. B-6

Please send free booklet: "Insulating Effect of Successive Air Spaces Bounded by Bright Metallic Surfaces."

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Firm \_\_\_\_\_

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Send Prices of Infra Insulations

Send Sample



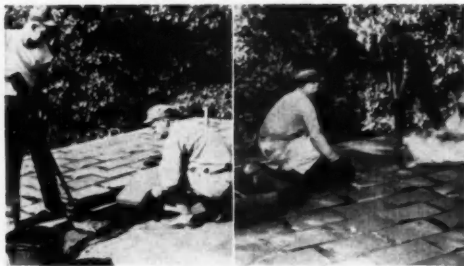
## TECHNICAL GUIDE for Builders and Craftsmen

### Cellular Glass Insulation...

(Continued from page 48)

of the slab and extending 24 inches under the slab.

The Small Homes Council of the University of Illinois recommends that a two inch rigid waterproof insulation be used at the slab perimeter and under the entire slab when a radiant heating system is incorporated in the



**FOAMGLAS** laid on a flat roof deck with hot bitumens. Applying standard roofing felts over the **FOAMGLAS**.

slab. This precaution can reduce the total slab heat loss to approximately 10 per cent of the total output of the system.

The insulation should be laid over a bed of well tamped earth topped with a minimum of four inches of gravel and covered with a thin layer of sand. Radiant heat pipes can be laid over the insulation and the concrete poured over the entire assembly.

In cases where the original construction did not provide sufficient slab insulation another insulating technique can be used. The area around the perimeter of the foundation wall can be excavated and the insulation can be adhered to the slab edge with asphalt. This will greatly reduce heat loss.

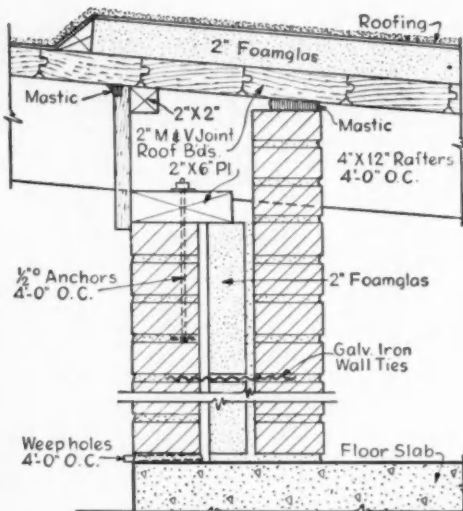
#### WALLS

Cellular glass insulation is unique in that it can be utilized as a core between two wythes of masonry with asphaltic cement as the adhesive. This type of insulated wall construction is fast, efficient and economical.

Another use of cellular glass insulation in walls, rapidly proving economical, involves adhering the insulation to the interior side of a masonry wall with hot asphalt or mechanical anchors, and applying a finish directly to the insulation. This is accomplished by applying a base coat recommended by the manufacturer and covering this with a gypsum trowel finish. No furring strips or lath are required in this method. This type of construction speeds up the work, helps keep down the cost and results in a highly practical wall surface.

#### ROOFS

Cellular glass insulation may be applied to flat, semi-flat, or pitched roofs. When insulating a roof with this type of insulation it is recommended that the cellular glass be applied to the outside surface of the roof. The insulation may be laid with common type hot bitumens. The job is a simple one. Joints should be tightly butted and staggered, and the roof deck should be clean and reasonably smooth. Roofing felts are mopped to the insulation to form a standard built-up roof.



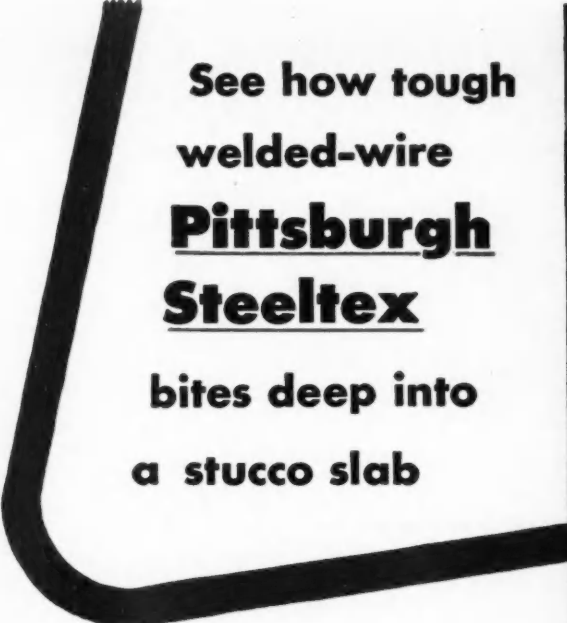
**DETAILS** showing use of **FOAMGLAS** in cavity wall and roof deck



**TYPICAL** core wall construction with **FOAMGLAS** laid between outer and inner walls of cut stone

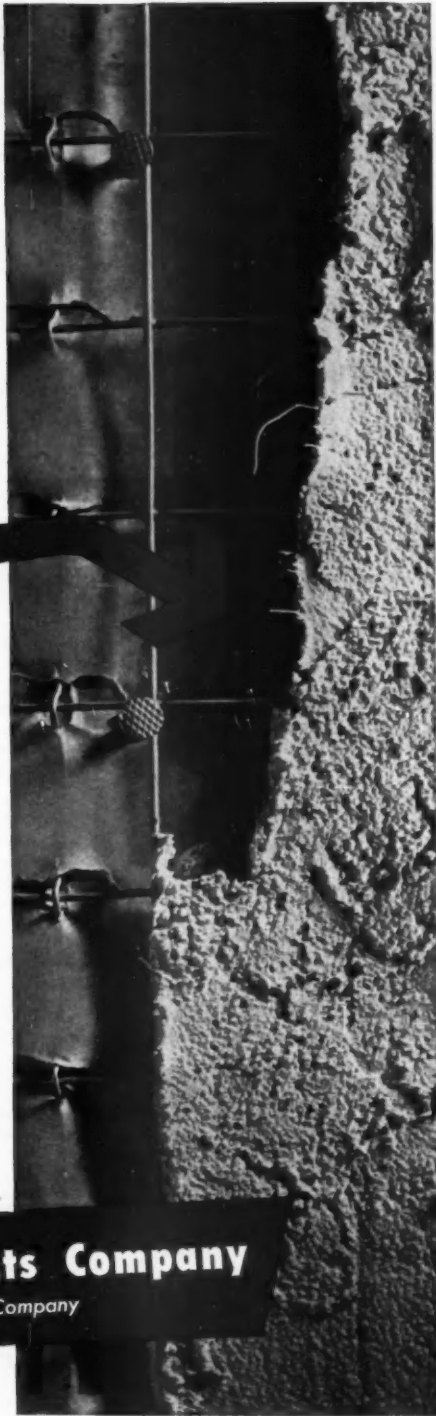


**FLOOR SLAB** insulated with **FOAMGLAS**. Blocks are laid on a bed of tamped sand and heating pipes installed



**See how tough  
welded-wire  
Pittsburgh  
Steeltex  
bites deep into  
a stucco slab**

Look closely at the actual-construction photograph. Notice that the Steeltex mesh is heavy, and the galvanized wires are welded together for greater rigidity. This provides positive protection against later distortion by actually strengthening the entire wall. Notice also the tough, double-ply waterproof backing. This not only protects the structure, it assists proper curing of the stucco slab. Steeltex backing and mesh are applied in one operation, thus saving money. For further good reasons for specifying Steeltex, see Sweet's or write for catalog D.S. 131, Dept. AB, Pittsburgh Steel Products Co., Grant Building, Pittsburgh 30, Pa.



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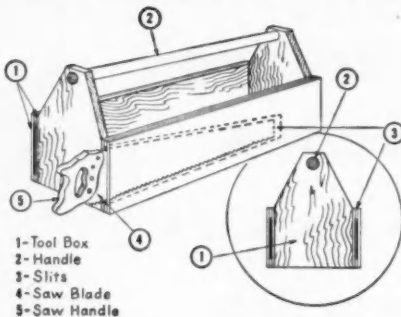
ORLANDO

FLORIDA



# TECHNICAL GUIDE for Builders and Craftsmen

## How Saws Are Carried at Sides of Tool Box



- 1—Tool Box
- 2—Handle
- 3—Slits
- 4—Saw Blade
- 5—Saw Handle

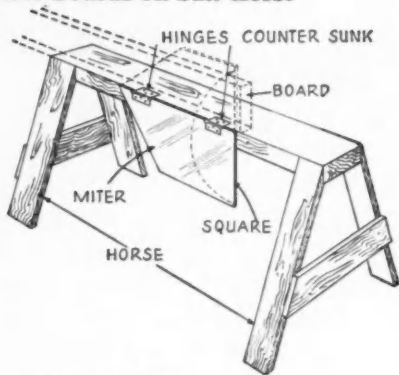
A handy way to carry saws is at the sides of the tool box, where they are easy to reach. The box, left, shows how this can be done.

Each side of the box is fabricated from three pieces of 3/4-inch plywood, glued or nailed together, with the center piece routed out to conform to the profile of the saw. The saw is then inserted with the handle projecting.—Warren W. Howe, Longview, Wash.

## How to Mitre or Square Boards on Saw Horse

Where extreme accuracy is not required, boards can be either mitred or squared off quickly on the saw horse in the manner indicated in the accompanying sketch.

A piece of sheet metal is cut to the proper shape, 15 inches long and 12 inches high. A pair of tight hinges are riveted to the metal piece after which the other part of the hinge is screwed to top of horse. To use, lift metal piece along board to be cut, and mark.—Herbert E. Fey, New Braunfels, Texas.

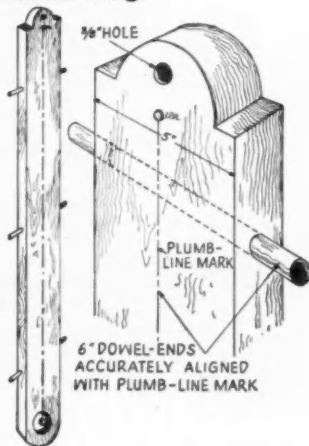


## How to Make a Door Jamb Plumb Gauge

Use a straight piece of 3/4 material 5 feet long and 5 inches wide. Cut a 3-inch hole at bottom end in which plumb bob may swing. Bore holes in edge of 3/4 piece and insert 3/8 inch dowels 6 inches long.

Mark a straight line down the center of board. Secure each dowel in board so the tip is exactly the same distance from the plumb line on that side. This distance may be about 3 inches.

Hang a line from brad at top of line mark then door jamb will be to swing in hole at lower end of line mark or hole. If ends of dowels are held against jamb of frame and the plumb line hangs exactly over plumb line mark then door jamb will be vertical and plumb.—Erwin L. Schwatt, Atlantic City, N. J.



6" DOWEL ENDS  
ACCURATELY ALIGNED  
WITH PLUMB-LINE MARK



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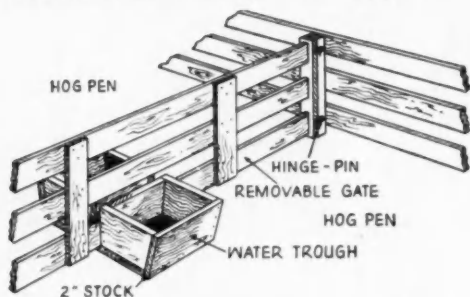
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## TECHNICAL GUIDE for Builders and Craftsmen

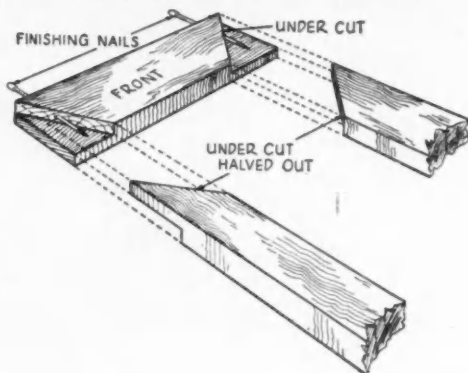
### How to Make a Trough for a Pigpen



The type of water trough and gate shown in sketch is the result of having the usual type of trough over-turned by the pigs at feeding time.

This setup is a two-in-one arrangement that serves two pens. The bottom of the trough is a continuous member with the sides built up to form two separate units, with the removable gate placed in between, thus holding the troughs in position and preventing them from tipping. Gate is held in position at both ends with a hinge pin secured to supporting post. Remove pin and gate can be lifted out of the way. All portions of trough are made of 2-inch-thick material.—Joseph J. Waldner, Wecota, So. Dakota.

### How to Lap Joints for Screen Frames



Where preference is given to mitre joints in making screen frames then the wood pieces should be cut to overlap and screwed together for added strength.

To do this, first mark off the mitres on both the top and bottom pieces. Then take a fine tooth saw and undercut mitres to assure a perfect fit, letting one third of the wood remain. Side pieces are cut diagonally as shown. Drive three small wood screws in the side pieces from back. Then a six penny finishing nail is driven in at the point shown, to make the frame rigid.—Submitted by Herbert E. Fey, New Braunfels, Texas.

*National Home Week—Sept. 9 thru 16*

## A team you can trust

There's a Worthington Blue Brute team to lick every clay, rock or concrete breaking job.

These job-tested air tools give you more action for every cubic foot of air. They're as easy-handling as ever an air tool could be—and their rugged construction from special heat-treated metals gives you longest life.

Teamed up with the famous Worthington Blue Brute Air Compressor, they'll speed your work and cut your costs every time.

See your Worthington distributor who will point out the Worthington design features that guarantee more work for your money. And for bulletins, write Worthington Pump and Machinery Corporation, Construction Equipment Division, Dunellen, N. J.

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H.1.8



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**FLEXIBLE...** for any type of installation... ideal for vanity or dressing table use... a handsome addition to any bathroom or powder room... size 20" x 18" fits all cabinets.

**FUNCTIONAL...** can be used with all dressing table materials (plastic, linoleum, wood, tile)... a perfect complement to luxurious interiors... your choice of five rich, harmonious colors—Azure Blue, Bermuda Coral, Fern Green, Oriental Ivory, Mellow Red—plus Richmond's "whiter-white."

**FASHIONABLE...** fulfills today's demand for modern built-in units... concealed front over-flow... wide slab space for extra room to arrange toilet articles... recessed soap dishes... splash rim.

**FINEST...** Richmond's quality vitreous china construction.

Whether for modernization or new construction, Richmond's new Vogue Lavatory is ideal for any installation. When ordering, ask for G-141 punched for combination supply and drain fitting; G-143 punched for center set supply and drain fitting.



**RICHMOND**  
RICHMOND RADIATOR CO.—AFFILIATE OF REYNOLDS METALS CO.

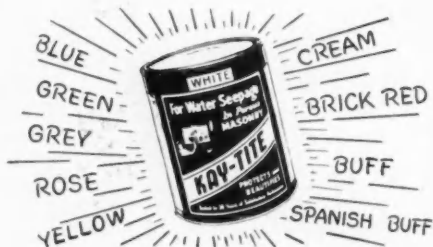
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Please send me additional information and literature on the Richmond line of fine plumbing fixtures. No obligation, of course.

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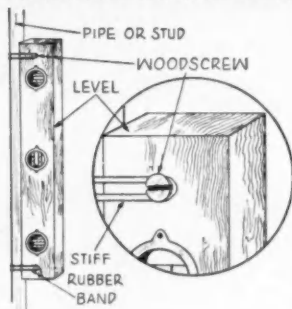
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## TECHNICAL GUIDE for Builders and Craftsmen

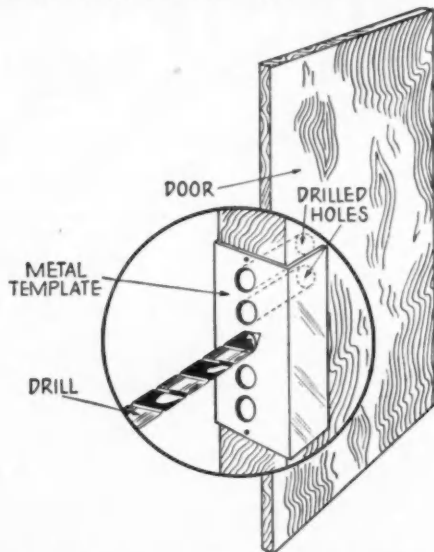
### How to Hold Level Without Hands



Two stout rubber bands cut from an old discarded inner tube will hold a spirit level in position to plumb pipes or studs more quickly when a mechanic is working without an assistant.

Drive four wood screws into the sides of level, letting each project about  $\frac{3}{4}$  inch. In use, hold the level against pipe or studs and then stretch both rubber bands with looped ends around screws.—Submitted by Herbert E. Fey, New Braunfels, Texas.

### Template Speeds Placing of Rim Locks



Template used to install rim locks on doors is made of heavy sheet metal six inches long. The sides are bent back to fit snugly over the edge of a door 1- $\frac{3}{8}$  inches thick. Drill five  $\frac{5}{8}$ -inch holes along the center of template  $\frac{3}{4}$  inch apart. This method will center all holes. Two small holes are drilled top and bottom for nails to hold template.—Herbert E. Fey, New Braunfels, Texas.





**SHURLOK GLASS KNOB BEDROOM OR BATHROOM SET...** a "smart looking" member of the new ShurLok line featuring sparkling beauty, lifetime quality, economy and sensational new style construction.

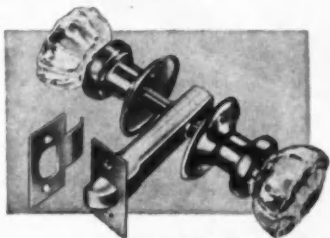
## **TEGCO GLASS KNOBS ARE EVEN MORE ENGAGING ON DOORS!**

ECONOMICAL Don was a very smart guy...

A TEGCO glass knob for her he did buy.

And at Her first glance, she said, "yes, I do."

For she recognized beauty...and ECONOMY, too.



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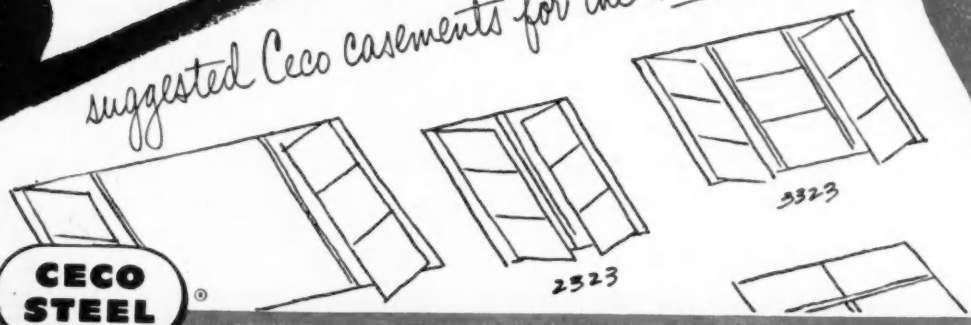
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Since 1920

**TEGCO TUBULAR GLASS KNOB SET** features unexcelled "Sales Appeal," quality and distinction... The world's largest selling knob style.

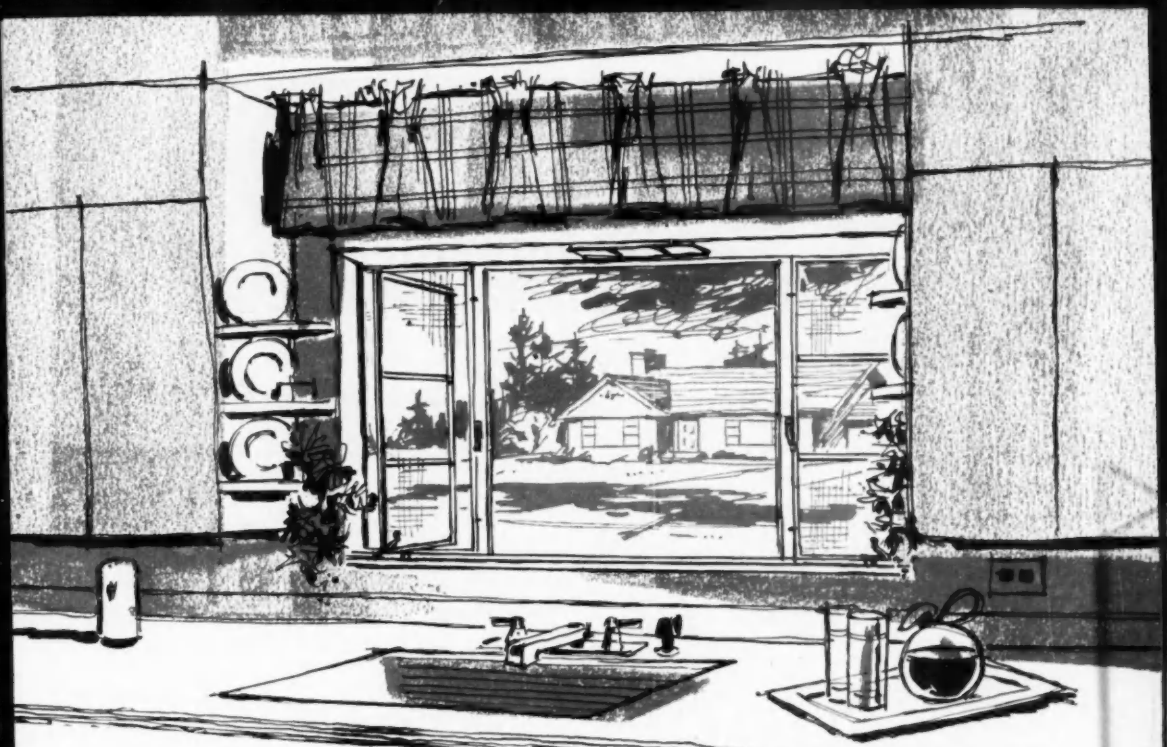


*suggested Ceco casements for the kitchen*



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STEEL**®

*In construction products* **CECO ENGINEERING**



## how to make a KITCHEN

*Cool as a cucumber*

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.

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*makes the big difference*

**"ELECTRIC** ranges help me  
stay ahead of competition,"

says

**Mr. Joseph P. Lenny**  
Runnemedede, N. J., builder

▶ The kitchen in the Cinderella Home has electric sink and dishwasher, kitchen ventilating fan and automatic clothes washer. The range? ... of course, it's **ELECTRIC**.

▶ Mr. Lenny calls this his Cinderella electric home. He sold 25 the day he opened his model house at Runnemedede, N. J., last Fall. There are 4 rooms with expandable attic for under \$10,000.



"In my experience, most home buyers can't resist an all-electric kitchen. And the kitchen can't be all-electric without an *Electric Range*. Although my homes are moderately priced, I offer this plus item and it helps me stay ahead of the field."

Builders like *Electric Ranges* because they help *sell* houses. Home buyers look for *Electric Ranges* because they're clean, cool, economical and fully automatic. Why don't you attract more home buyers by offering them a modern *Electric Range*?

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YOUR HOUSES WITH  
**ELECTRIC  
RANGES**





**OSCAR CLARHOLM**, deluxe builder of Daytona Beach, Florida, has devised an economical and attractive flush baseboard.

**HE SETS** aside the clears in his 1x8 sheathing and rips them to two fours. At the mid point he routes a V-groove along the side to be used as the face. The top front is cut upward at the same angle and depth as the V. The remainder of the 1-inch thickness is cut back at about 30 degrees or less. The board is then applied directly to the studding.

**THE CUT-BACK** forms a plaster key and ground, and plaster is finished flush with the baseboard. The plasterer forms the top V. Clarholm says it is inexpensive and very easy to keep clean.

**ANOTHER CLARHOLM** innovation is his method of laying closet floors. On the theory that dust infiltrates through the bottom of the closet doors, and, once in the closet, is hard to get out, he lays the closet floors the thickness of a floor board above the adjacent floor.

**TO ACCOMPLISH THIS** he sets nailing strips over the rough floors in the closets, and applies the finish floor on the nailing strips. The edge of the closet floor forms a seal against the door to stop the infiltration of dust.

**ANOTHER ADVANTAGE** is that the closet floor forms a butt for the edge of a dust pan permitting the trapping of lint without sweeping it out on the hall floor.

**STILL ANOTHER TRICK** Clarholm has devised provides a tight and smooth joint between the back of rough stone and wood siding boards meeting the stone at right angles. It is used where a front wall is rough stone and the abutting wall is wood siding.

**TRYING** to cut the ends of the wood siding to accommodate the irregularities of the stone is costly and never very satisfactory. He applies a batter board or form at the back of the stone that projects beyond the line of the abutting wood wall.

(Continued on page 63)

JUNE, 1951

# Secret Of Superiority!

**Only**  
**IN-SINK-ERATOR**  
ELECTRIC FOOD WASTE DISPOSER

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61

This is  
**NEVAMAR**

..Endures long wear... never needs care!

High pressure laminates surface the rugged, long-lasting beauty. Nevamar is not stained by coffee, tea, fruit juice, perfume, ketchup, oil, grease, alcohol, or any household liquid. Nevamar is resistant to scuffing, scratching and abrasion. It is easy to clean and may be polished with soap and water.

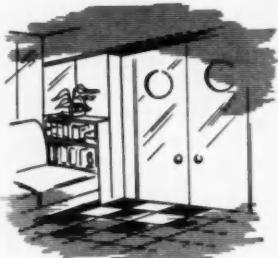
To keep your Nevamar surface clean, first use a mild detergent. A scrubber pad should be used for tough stains. Wash with soap and water. Dry the surface with a soft cloth. Do not use wax or polish.

Guaranteed by  
**Good Housekeeping**  
One of our approved products

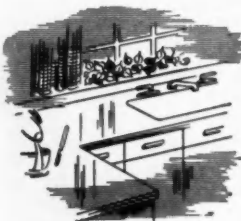
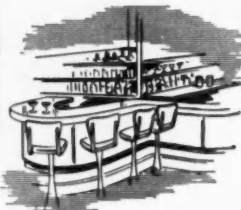
NATIONAL



NEVAMAR High-pressure laminates conform to NEMA specifications.



# NEVAMAR<sup>®</sup> builds *care-free* beauty into any surface



Building? Remodeling? Look into NEVAMAR first! Here is a surfacing material that gives the builder endless opportunities to build beauty and durability into any project. NEVAMAR comes to you in clear, true colors and patterns that won't wear off. It never needs painting or refinishing and it's so easy to keep spotlessly clean. Use NEVAMAR on every type of surface: on wall paneling and built-in fixtures, on bar tops and counters,

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ODENTON, MARYLAND • NEW YORK: EMPIRE STATE BUILDING • LOS ANGELES: 2252 EAST 37TH STREET



(Continued from page 61)

**WITH THIS** he gets a smooth, straight cement mortar line extending a rough inch behind the stone line. This eliminates the need of trying to cut the ends of the siding to the shape of the stone line. The alternative is a thick caulking joint, which this method also eliminates. Only a very thin, even caulk is required.

**HOW DO YOU NAIL** redwood siding? The question was recently brought up in a four-way conversation. Three methods were advanced.

**THE FIRST** was to use ordinary flathead wire nails and apply redwood stain over nails and wood at the same time. The idea got no support.

**A SECOND METHOD** employed the use of aluminum nails. This was objected to because of the brightness of the aluminum, but its proponent insisted that in a short time oxidation darkened the aluminum nails so that they became practically invisible.

**THE THIRD PROPOSAL**, and one that its proponent uses, embodies finishing nails, countersunk in the wood. The holes are filled with spackle and the final application stained.

**ON THE SUBJECT** of redwood siding, there seems to be two ways of staining it—either before or after it is applied.

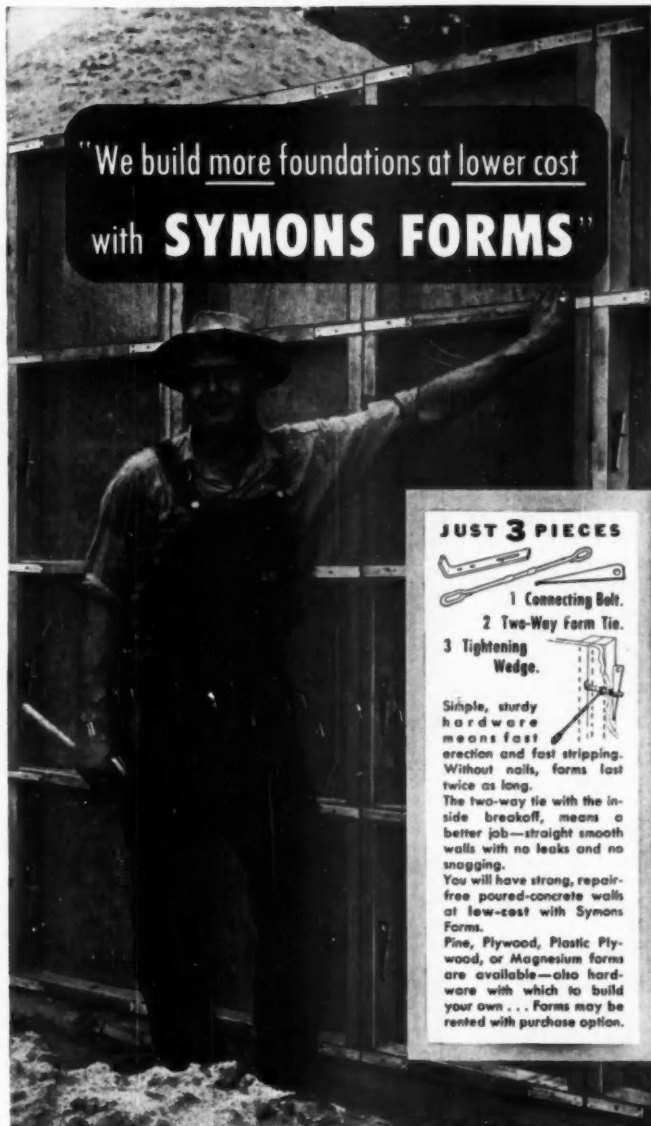
**THE ADVOCATES** of staining before applying redwood siding insist that the exposed surface is truer in tone and more lasting if both sides are stained. We'll let the redwood producers answer that.

**BUT IF STAIN** is applied before the siding is nailed in place, care must be exercised.

The natural procedure, especially with long boards, is to stain one side, then after a reasonable time for drying, turn the boards over on a pair of saw horses, and apply stain to the opposite side.

**HERE IS WHERE** trouble is encountered. If the saw horses are clean there is an excellent chance that they will absorb some of the stain and leave light lines on the redwood surface. If

(Continued on page 65)




"We build more foundations at lower cost  
with **SYMONS FORMS**"

**JUST 3 PIECES**

-  1 Connecting Bolt.
-  2 Two-Way Form Tie.
-  3 Tightening Wedge.

Simple, sturdy hardware means fast erection and fast stripping. Without nails, forms last twice as long. The two-way tie with the inside breakoff, means a better job—straight smooth walls with no leaks and no snagging. You will have strong, repair-free poured-concrete walls at low-cost with Symons Forms. Pine, Plywood, Plastic Flywood, or Magnesium forms are available—also hardware with which to build your own . . . Forms may be rented with purchase option.

See Our Catalog In Sweet's File Builders and Sweet's File Engineering



**SYMONS CLAMP & MFG. CO.**  
4261 West Diversoy Avenue, Chicago 39, Illinois

Please send me the items checked:


**Information regarding Symons Panel Forms**

Catalog and Prices     Construction details     Samples  
 Layout and estimate (our plans being sent under separate cover)

**Information regarding other Symons Products**

Column Clamps                       Bar Ties and Tie Chains  
 Safety Shores                         Scaffolding

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_



# Top off those home plans with a DELCO-HEAT GAS CONDITIONAIR



**Model GA-63:** 62,500 Btu input with Natural, Manufactured, Mixed or LP-Air Gas. 60,000 Btu input with LP Gas. Height 55", width 22", depth 26".



**Model GA-90:** 90,000 Btu input with all gases. Height 55"; width 22"; depth 26".



**Model GA-120:** 120,000 Btu input with all gases. Height 55"; width 28 1/2"; depth 26".



**Model GA-150:** 150,000 Btu input with all gases. Height 55"; width 35"; depth 26".



**Model GA-210:** 210,000 Btu input with all gases. Height 55"; width 48"; depth 26".



Modern gas heat is a big selling addition to any home "package." It will make every home you build more attractive to home buyers. So offer them the best—offer them a home equipped with all the practical advantages of a Delco-Heat Gas Conditionair.

Five new models are offered, each featuring a really important technical first—the exclusive Multi-Rad heat exchanger, with continuous-welded construction. In the Multi-Rad, each of the multiple sections completely encloses the flame from a separate burner head. This gives a maximum radiation area to the Conditionair's heat exchange system, so that it can extract the greatest amount of heat from the fuel.

Specially engineered ribbon-type twin burners are used. These cast-iron burners have stainless steel ribbons that are easily removable for routine cleaning and servicing. Design assures more even flame, more complete combustion, positive ignition and quiet operation.

Delco-Heat Gas Conditionairs are AGA-approved for all types of gas and for high altitude installations.

With their outstanding Multi-Rad heat exchangers, ribbon-type twin burners, and blower-filter units powered by Delco Appliance's famous *Rigidframe* motor—Delco-Heat Conditionairs will mean a more satisfied owner for every home you build.

Delco Appliance Division manufactures a complete line of automatic home heating products—oil and gas conversion burners, oil and gas Conditionairs, oil-fired boilers and coal stokers—as well as the complete line of Delco Electric Water Systems for domestic running water supply beyond city water mains.

MAIL COUPON TODAY!

GENERAL MOTORS  
DELCO-HEAT

DELCO APPLIANCE DIVISION, Dept. AB-26  
GENERAL MOTORS CORPORATION  
Rochester 1, New York

Please send me further information about Delco-Heat Products:

Name

Address

City  Zone  State

AMERICAN BUILDER





(Continued from page 63)

the sawhorses are dirty, and they usually are, absorption more than likely will take place in the opposite direction—the redwood absorbing from the sawhorses, and leaving ugly black strips.

**LONG DRYING** could eliminate either or both results, but the safest way probably is to stand the boards on end, although this probably would mean the use of a ladder.

**IRISH GYPSUM** Board is making its appearance in this country. Recently a cargo arrived in southern Florida as a result of an ECA arrangement. Apparently the entire shipload was eagerly snatched up by dealers purchasing as much as a carload for yards as far north as Jacksonville.

**THIS IN SPITE** of the fact that the board costs the dealer about 65 dollars piled in his yard. This is approximately twice the cost of native gypsum board.

**AS ONE DEALER** put it, however, a couple thousand feet is about all that most houses require, and as between waiting a long time and paying a premium of 60 to 70 dollars, most builders will take the Irish product if they are unable to get native material when they need it.

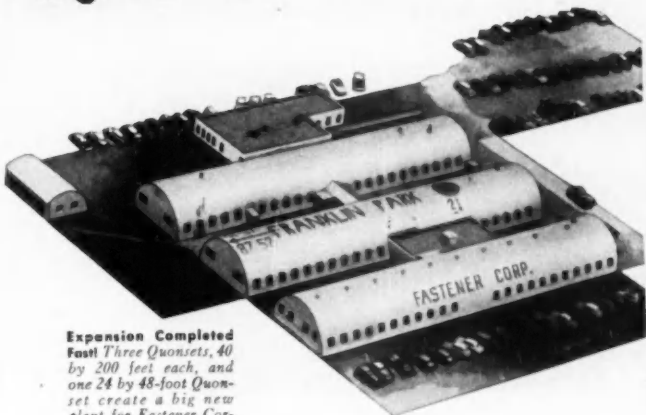
**THE IRISH BOARD** appears to be a trifle thinner than standard American brands. The paper seems to be about the same quality, and apparently is applied in the same manner. Major difference is the color—pink, and the fact that the core seems to be a little more crumbly.

**INTERESTING** is the fact that unlike American brands the Irish manufacturers do not wrap the board in bundles. They clip a standard package together with short steel straps, two straps at each end.

**CONSIDERING** that each bundle must have had at least nine handlings from factory to warehouse to dealer the bundles are in surprisingly good shape. There was practically no loss from breakage or chipped edges, and the cores appeared to be firm and unbroken.

JUNE, 1951

# Build Quicker with QUONSETS



**Expansion Completed**  
Fast Three Quonsets, 40 by 200 feet each, and one 24 by 48-foot Quonset create a big new plant for Fastener Corporation at Franklin Park, Illinois.

## IDEAL FOR FACTORIES, WAREHOUSES, MACHINE SHOPS, STORAGE OR SERVICE BUILDINGS

For additions to your present plant—or for new plants—Quonsets mean fast completion, economy of materials, adaptability to any use. Also, should plants need more expansion later, 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 now. Write us today.

### GREAT LAKES STEEL CORPORATION

Stran-Steel Division • Ecorse, Detroit 29, Michigan



**Expands Floor Area by 20,000 Sq. Ft.** Bill Jack Scientific Instrument Co., San Diego, Calif., began with two Quonsets and added 20,000 sq. ft. of floor space in just 50 days.

**NATIONAL STEEL CORPORATION**



STRAN-STEEL AND QUONSET REG. U. S. PAT. OFF.

# “My friends wish a G-E Kitchen

Mrs. Edwin B. Fisher of Hillsdale, N. J., tells her builder,  
Mr. Herbert M. Tandy, what she particularly likes  
about the house she bought from him last year!



*“I dropped by* to get your comments about the house,” says Mr. Tandy.

“You’ve lived in your new house for almost a year now, and I feel that your reactions would be mighty helpful in planning additional houses in our development.”

“Be glad to, Mr. Tandy,” says Mrs. Fisher. “Matter of fact, *you* should have been here last evening when some of our friends—who just bought a house—told us they wished *they* had known more about this development before they bought elsewhere!”



*“Not only were our friends* impressed with the house, but their eyes popped when I told them that our wonderful General

Electric Kitchen cost us only \$3.80 a month extra—because the cost of it was included as a part of our regular mortgage!”

# they had for \$3.80 a month!"



"It just so happens that I'm doing a bit of baking, Mr. Tandy. Look at this . . . baked evenly all around! My, this General Electric Range heats up so quickly, and gives such even heat!"

"That looks like a mighty fine cake, Mrs. Fisher!" says Mr. Tandy.



"While you're here, let me show you how efficient my General Electric Dish-washer is! See, the cups and glasses are perfectly clean! I do my dishes—breakfast, lunch and supper—once a day now!"

"Yes, most people are enthusiastic about this time-saver," Mr. Tandy says.



"You know how it is with a small child in the family.

"Edwin can certainly soil clothes. But I don't mind, really. This General Electric Automatic Washer does get things so nice and clean and dry. I use my G-E almost every day!"



"... and another thing I like about my house, Mr. Tandy, is my spacious G-E Refrigerator."

"Well, I take it, Mrs. Fisher, that the thing you like most about your house is the G-E Kitchen-Laundry . . . and you're got lots of neighbors who agree with you!"

Mr. Herbert Tandy and his associates, Messrs. Norman Tandy and Alan D. Allen, are builders of the Saddle-Wood Hills Development in Hillsdale, N. J. Mr. Tandy says:

"We installed G-E appliances in our houses because we wanted quality equipment . . . and the public knows that G-E stands for fine equipment!"



## Won national award

The National Association of Home Builders, in presenting a national award to Saddle-Wood Hills, stated:

"The projects presented . . . were a great credit to the home building industry. Sound planning, ingenuity, and knowledge of market appeal were all in evidence."

Home Bureau, General Electric Company, Bridgeport 2, Conn.

You can put your confidence in—

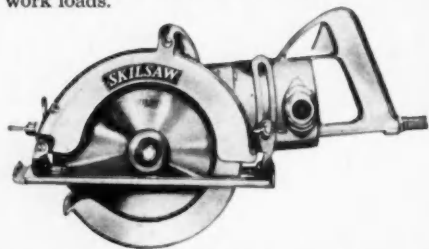
GENERAL  ELECTRIC

# "SKIL Saws save

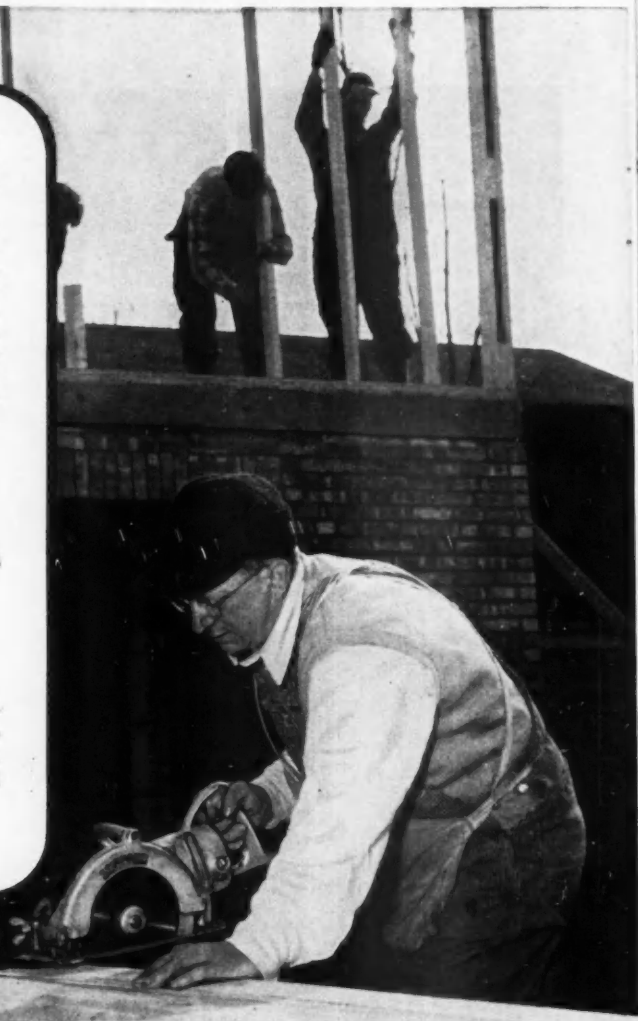
SAYS N. J. RIZZO, VICE PRESIDENT BESSINGER and ASSOCIATES,

"Building schedules are a race against time," says Mr. Rizzo. "SKIL Saws help us by doing the work faster and making it easier for our men."

Only SKIL Saws are used by Bessinger and Associates. Fifteen are at work on this job—helping to build 172 houses, keeping up the schedule of 3 houses a week. Job-proved performance like this makes SKIL Saws the preferred saws on construction jobs all over the country. They're power-packed for the toughest work—easily handled for any cutting job in any position—durable enough to keep running smoothly under continuous work loads.



**SKIL Saw—Model 825**—8 $\frac{1}{4}$ " blade. Base adjustments 0° to 2 $\frac{1}{4}$ " vertical depth cut; 0° to 45° bevel adjustment. 2 $\frac{1}{4}$ " depth of cut at 45°. Withstands hard use in gang cutting. Overall length: 18"; weight: 17 $\frac{1}{4}$  pounds.



## SKIL Saws speed the work 4 ways

- Faster cutting
- More cutting
- Continuous cutting
- Cutting in any position

Otto Adam, carpenter with Bessinger and Associates uses SKIL Saw Model 825 to cut wall studding fast enough to keep 5 men busy with the construction work. "I've used SKIL Saws for years," says Adam. "I wouldn't use anything else."

Call your SKIL Distributor and get on-the-job proof that SKIL Saws can give you this kind of help on all your jobs.

# building time"

INC.—CHICAGO, ILLINOIS



*Faster Jobs—*  
**BECAUSE SKIL SAWS MAKE  
 ALL THESE JOBS EASIER**



**TRIMS ROOF SHEATHING**

Louis Serahon says: "When I'm up on a roof, I want an easy handling saw. That's why I like to work with SKIL Saws."



**SAWS FLOOR JOISTS**

While Martin Anderson checks the blue prints, Harry White uses Model 77 SKIL Saw to cut floor joists from 2" x 8" lumber. "SKIL Saws make this job a lot easier," says White. "You can follow the guide line with a SKIL Saw because you can see the blade and the guide marker too."



**TRIMS SIDING**

While Robert Engelking nails the wall sheathing to the studding, Harry Langtries trims it with his Model 825 SKIL Saw. Langtries says: "Here's a job you can't do with any other saw. SKIL Saws save a lot of time by cutting sheathing this way."



**CUTS DORMER MEMBERS**

Calvin Dyrness says: "SKIL Saws are well balanced and easier to handle on this work."



SKIL Drill



SKIL Belt Sander



SKIL Disc Sander



SKIL Driver

## SKIL

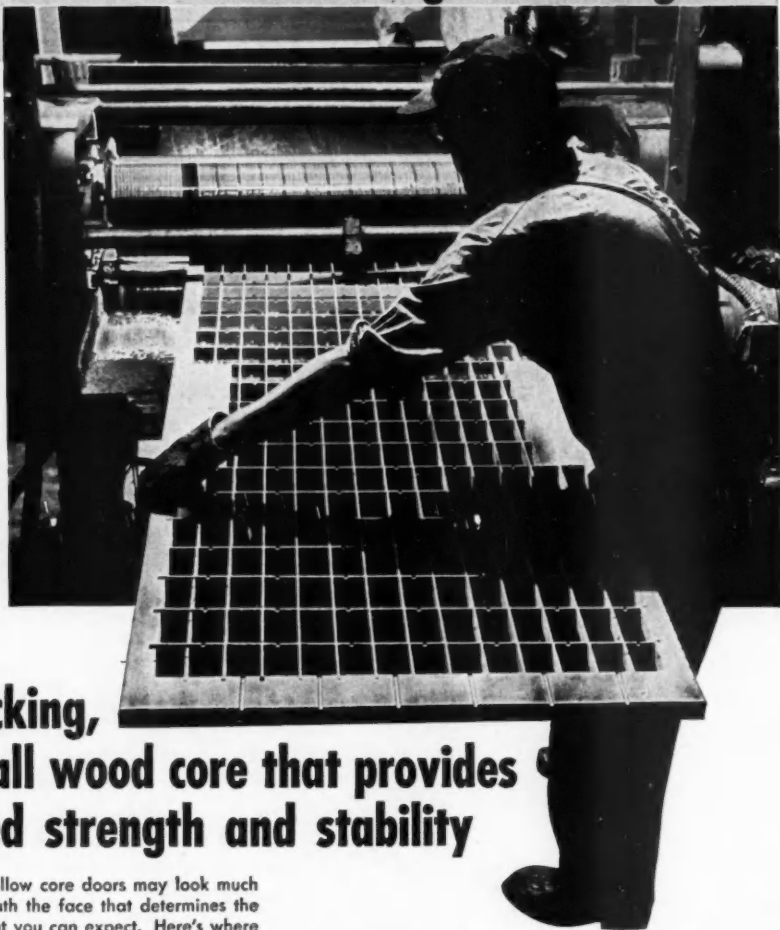
PORTABLE TOOLS

SKIL Products are made exclusively by Skilsaw, Inc.  
 5033 Elston Avenue, Chicago 30, Ill.  
 Skilsaw factory branches in principal cities  
 In Canada: Skiltools, Ltd., 66 Portland Street  
 Toronto, Ont.

# PAINE REZO DOORS

T. M. REGISTERED

are Unconditionally Guaranteed  
and here's what makes that guarantee good



**the interlocking,  
ventilated all wood core that provides  
unduplicated strength and stability**

On the surface, flush hollow core doors may look much alike, but it's what's beneath the face that determines the service and satisfaction that you can expect. Here's where the superiority of Paine Rezo doors is most pronounced; for nowhere else will you find equal dimensional stability, nor such lightness in weight combined with great structural strength.

For these reasons architects and contractors everywhere have installed more than four million Paine Rezo doors in

buildings of every type. No other hollow core door has been so widely endorsed, so thoroughly time-proved. Remember, when you specify Paine Rezo doors your satisfaction, now and in the future, is *unconditionally guaranteed*.

See SWEET'S catalog — or write for an illustrated data bulletin.

*Manufactured by the*

**PAINE LUMBER CO., LTD.** *Oshkosh  
Wisconsin*

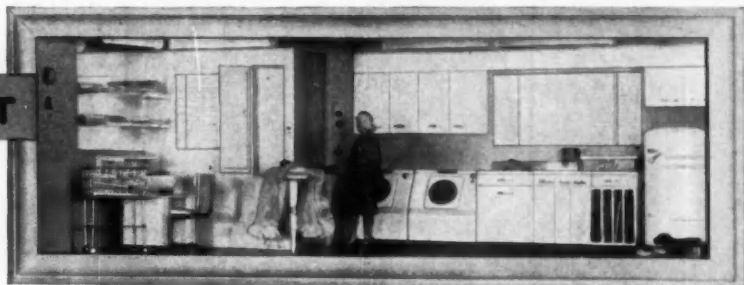
ESTABLISHED 1853



**PAST**



**PRESENT**



# *Future* ... WHAT'S IN IT FOR YOU ?

Today's pattern of living is changing house merchandising.

People want homes completely equipped with time and labor-saving appliances. And the builders who will dominate tomorrow's markets are providing them—already installed—in the houses they are now selling.

A tremendous financial strain is placed upon

the average person if he is required to equip the house he buys under separate financial arrangements. That's why customers are boosters for the builder that gives them a completely equipped home on an easy-to-pay-for package mortgage.

Write for the new Westinghouse 1951 Appliance Catalog. It will help you plan homes for electrical living. Just mail coupon below.

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**IF IT'S**  
**Westinghouse**

Westinghouse Electric Corporation  
Electric Appliance Division  
Mansfield, Ohio  
Please send me your 1951 Appliance Catalog.

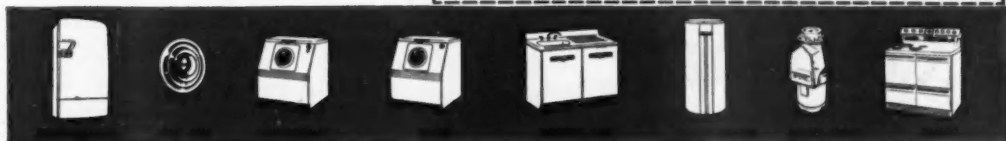
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6AD





Anyone who can handle ordinary carpenter's tools can install  
**G-E Textolite\* Bonded-to-Plywood Panels**

*Sell General Electric  
 Textolite\* bonded-to-  
 plywood panels for  
 sink tops and  
 other work surface jobs!*

Another profitable item for Roddiscraft dealers — ready-to-install G-E Textolite plastics surfacing securely bonded to plywood. It's a natural for home craftsmen who do their own kitchen modernization and similar jobs around the home.

G-E Textolite plastics surfacing bonded to plywood is easy to work, easy to install. It is processed for Roddiscraft by leading fabricators in each warehouse community solely for the convenience of dealers. All workmanship is of highest quality. Available on short notice in three practical sizes — 21" x 96", 30" x 96", 36" x 96", 48" x 96", — other sizes on special order.

G-E Textolite comes in a wide range of colors and patterns. Sells itself on sight. Stock and display this profitable item. There's a big modernization market ahead.

Ask your Roddiscraft warehouse for samples and prices.

\*Reg. U. S. Pat. Off.

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# MAYBE A MAN FROM MARS

COULD SEE THE  
HIDDEN  
CONSTRUCTION  
OF YOUR HOME!



But . . . Customers Need Proof! Use

# American Kitchens

to Prove Top Quality Construction Throughout!

Most customers have no way of judging the quality of internal construction. They don't have the X-ray eyes of a man from Mars—how can they recognize the built-in quality you feature?

Your prospects judge a house in terms of things they know . . . and they *know* a good kitchen from a cheap one! An American Kitchen spells high-quality . . . easily recognized . . . and prospects use it as a sort of measuring stick to judge the quality of the hidden construction as well.

It pays to feature American Kitchens. They are more economical because they give you more sales return per dollar, sell houses faster than any other brand. Builders from coast to coast use American Kitchens to add value to their homes. In addition, American Kitchens save money on labor costs because they are easy to install.

On your next project . . . feature American Kitchens and sell homes faster! Mail coupon at right today for free file.



The high quality of American Kitchens is proof of the quality of the hidden materials all through the house.

**American  
KITCHENS**

**SELL HOMES FASTER**

**Free to Builders — MAIL TODAY**

American Central Division, Dept. AB-6  
AVCO Manufacturing Corp., Connorsville, Ind.

Please have my distributor send me  
your new Architects' and Builders'  
File.

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Address \_\_\_\_\_

City \_\_\_\_\_

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

AMERICAN CENTRAL  
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CONNORSVILLE,  
INDIANA



**FLINTKOTE**  
*Tapered Strip*  
**SHINGLES**

...the  
*Aristocrat*  
of Asphalt Roofing

available in a wide range of  
solid colors and H-B Blends.\*



*the extra years of service  
cost no more!*

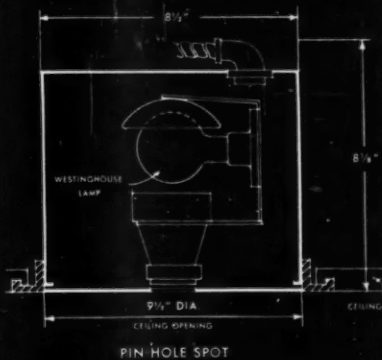
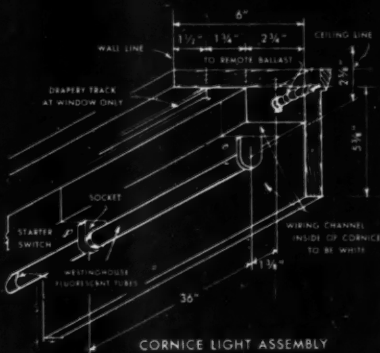
Write The Flintkote Company  
30 Rockefeller Plaza, New York 20, N.Y.  
for details

\*Harmonized-Balanced Blends, H-B Green shown above.

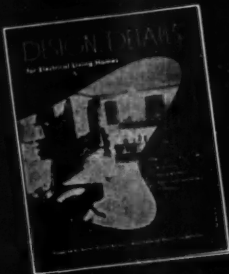
# DESIGN DETAILS

## PLATE 4 LIGHTING

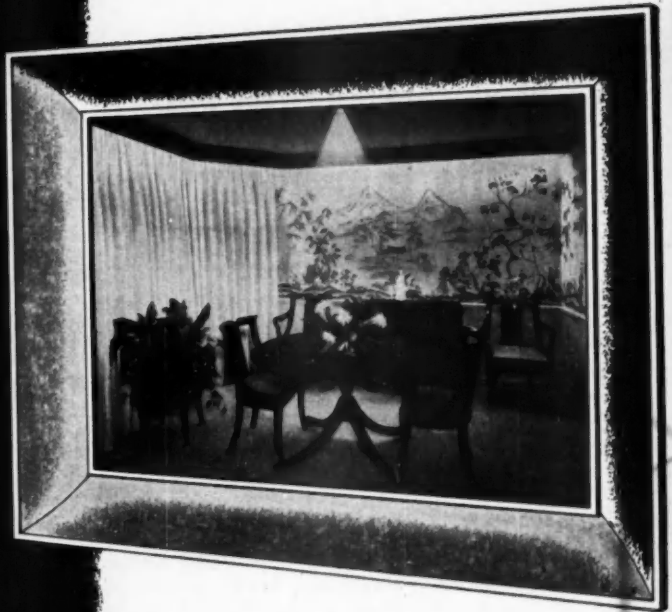
- .. Cornice Light
- .. Pin-Hole Spot



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



Lighting is only one of the Electrical Living features that will add value and appeal to your homes... others are planned all electric kitchens, automatic laundries, and adequate wiring... all described in this 24 page booklet. Send for your free copy.



## How to Add "Quality" Appeal with "Economy" Dollars

When you're weighing "extras" to give "quality" appeal to your homes, decorative lighting should be at the top of your list.

Design details are simple. Construction costs are low. Results can be striking.

In the room illustrated above, cornice lighting emphasizes the striking wall decoration, highlights the draperies and gives good general illumination of the room. A pin-hole spot in the ceiling draws attention to the table... decorations... setting. The result speaks for itself.

Cornice, valance, cove, and recessed lighting are some types of decorative lighting that are being used throughout the home. They're the kind of "extras" that make people dissatisfied with what they have... make them prospects for new homes or modernization.

It will pay you to investigate these possibilities... ask for booklet. Better Homes Bureau, Westinghouse Electric Corporation, P. O. Box 868, Pittsburgh 30, Pa. G-10151

Better Homes Bureau  
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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-A.*

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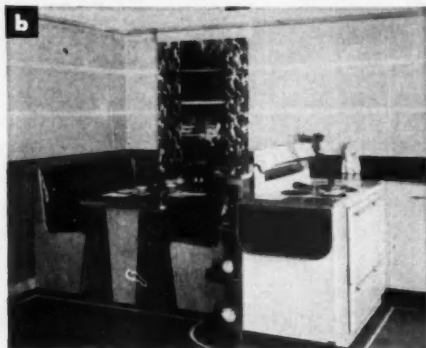
# Versatile MARLITE fits into every REMODELING PICTURE

For both residential and non-residential remodeling, there's no end to the many practical uses of modern, versatile Marlite plastic-finished wall and ceiling panels. What's more, your remodeling programs will be completed on time—as planned—because Marlite is quickly and easily installed.

Exclusive baked plastic finish preserves Marlite's sparkling beauty. Dirt, grease, stains, moisture can't mar the lustrous finish. Periodic painting and redecorating is never necessary. Maintenance costs are *extremely low*.

Modernize with Marlite—used and approved by architects and builders for more than 21 years. See for yourself how Marlite fits into your remodeling picture. Write today for full color literature showing typical Marlite installations. Marsh Wall Products, Inc., Dept. 603, Dover, Ohio. Subsidiary of Masonite Corporation.

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Smart modern appearance . . .  
easy, economical to construct  
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THE answer to "what to use" for nearly every type of construction plan! "Century" APAC—Kearsbey & Mattison's versatile asbestos-cement structural board—lends itself equally well to both interior and exterior siding applications . . . to new structures, repairs, additions, modernizations. And it helps you *build better at less cost!*



Dunton's Cafeteria, Dallas, Texas. Attractive front is "Century" APAC,  $\frac{3}{8}$ " thickness.  
Architect: Ralph Pease, Jr., Dallas; Contractor, Jansen Construction Company, Dallas.

**APAC for APPEARANCE!** For exterior use, APAC can be finished to give an attractive, stone-block effect. For interior use, APAC takes decorative colors well, or it can be left natural to take advantage of its pleasing neutral gray color.

**APAC for APPLICATION EASE!** Sturdy sheets are large size (standard 4' x 8'); are easy to cut and fit on the job; can be readily fastened with ring fettered nails or screws. With APAC, large surface areas can be covered quickly, easily, with minimum labor cost!

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Recommend "Century" APAC whenever a customer wants progressive design and construction—for theaters, stores, residences, multi-family dwellings, and industrial structures of all types. Ask your Kearsbey & Mattison dealer for complete details, or write us direct.



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ORIGINAL MANUFACTURERS OF ASBESTOS-CEMENT SHINGLES IN THIS COUNTRY  
JUNE, 1951

# Built to last a Lifetime!

## BERMICO®

### SEWER PIPE

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LENGTHS

WEIGHS  
 $\frac{2}{3}$  LESS

ROOT-PROOF  
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BERMICO  
SEWER PIPE

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-6.

BERMICO SEWER PIPE

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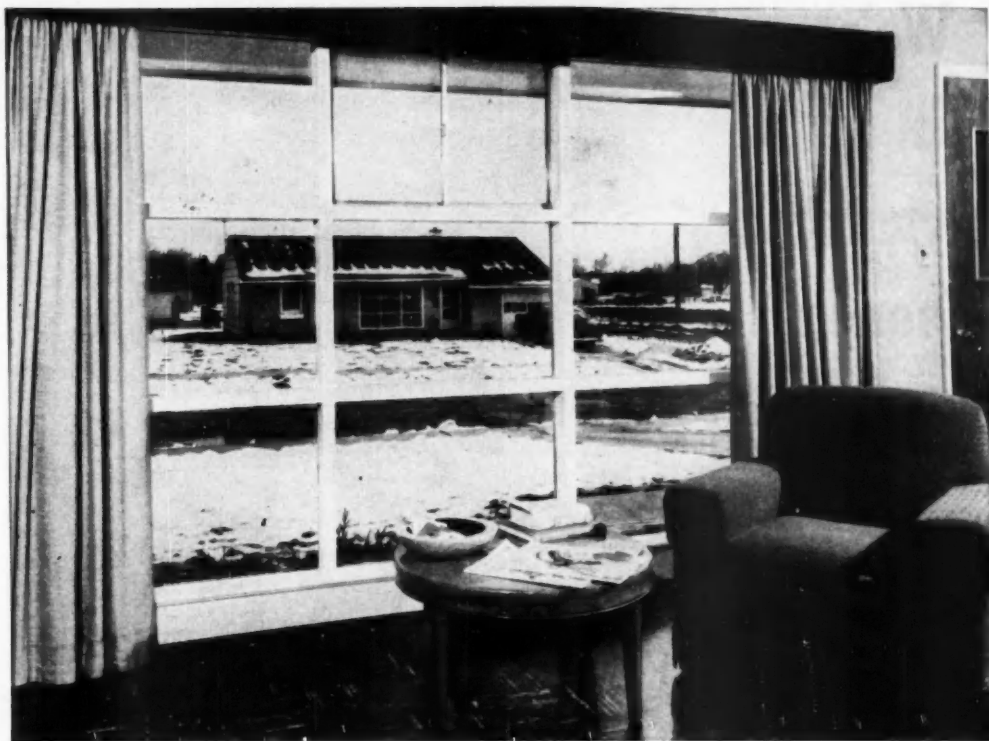
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## "A PLUS FEATURE PEOPLE TALK ABOUT"

says Maurice J. Fishman, President of Precision Housing Corporation of Cleveland, Ohio

Large living room windows of *Thermopane*\* insulating glass are an A-1 selling feature in the 800-house Ridgewood Park Subdivision. Big *Thermopane* windows . . . radiant heating . . . three bedrooms . . . disappearing stairway . . . heated, attached garage. And these homes are in the \$15,000 to \$16,000 class. No wonder they're being talked about!

"Windows are one of the most important items in a house," says Mr. Fishman. "Done right, they give a customer a lot of enjoyment and comfort. Done wrong, they can be a headache—heat loss, discomfort, condensation. Either way, owners will tell friends about their windows. We've found by experience that we're *right* in using *Thermopane*."

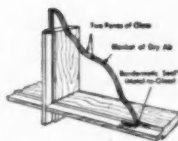
Precision Housing uses a simple "grid" frame with 9, 12 or 16 openings for insertion of fixed glass or vented lights—both taking standard-size *Thermopane* units. Vice-President Fred H. Kromer reports installation is easy and inexpensive. Frames of jointed 2 x 6's are delivered to the site assembled, already rabbeted for insertion of the *Thermopane*. Glazing is a simple, quick operation.

The result is an appealing large window unit, in keeping with the open planning of the houses—a window that, in effect, "enlarges" the room. And all done economically with standard materials.

*Want more details?* Send for complete working drawings for this type of window. Mail the coupon.

**LOF**  
GLASS *Thermopane*

LOOK FOR THE NAME ON THE SEAL BETWEEN THE PAGES



Libbey-Owens-Ford Glass Company  
1161 Nicholas Building, Toledo 3, Ohio

Please send me complete information on installation methods for low-cost window walls of *Thermopane*.

Name.....  
(Please Print)

Address.....

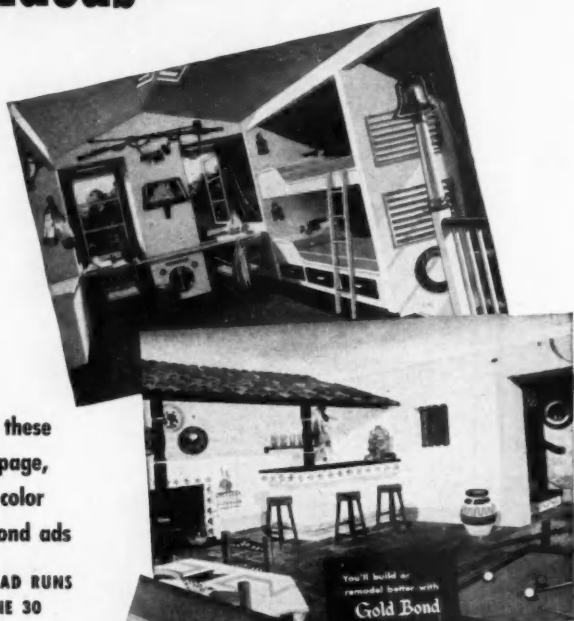
City.....Zone.....State.....

# We're putting ideas in your customers' heads...



With these  
full-page,  
full-color  
Gold Bond ads

◀ NEXT AD RUNS  
JUNE 30



**E**VERY day, remodeling is becoming a bigger market for builders. And Gold Bond helps *you* get the big share with these powerful, timely IDEA ads seen by millions of POST readers. We're showing your customers how you can build new rooms with Gold Bond Grain Board and Gypsum Board...how joints can be hidden with Gold Bond Tape Joint System...how walls can be decorated with amazing Gold Bond Color Texture in the 8 new colors women want most.

There's profit in remodeling jobs like these! And remember, each Gold Bond remodeling job is an ad for you...bringing more jobs, more profit!

You'll build or  
remodel better with  
**Gold Bond**

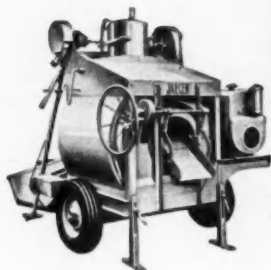
*Fireproof Wallboards, Decorative Insulation Boards, Lath, Plaster, Lime, Sheathing, Wall Paint, Textures, Rock Wool Insulation, Metal Lath and Sound Control Products.*



**NATIONAL GYPSUM COMPANY • BUFFALO 2, NEW YORK**



**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!

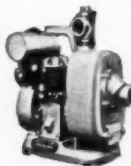
**Concrete Mixers**—Sturdiest of small tilters is the Jaeger 3½-S with patented V-bottom drum. Fast to hitch, tow and spot, fast loading and discharging. And rugged—heavy semi-steel drum bowl and ring gear, Timken bearings on drum shaft and wheels, solid steel drum lip, tough Wisconsin AKN engine, oil-bath 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.

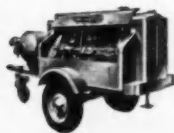
**Self-Raising Tower**—Always a money maker—even more valuable as wooden tower materials become scarce and costlier. Goes to your jobs on a truck. Assembles on the ground in 2 hours. Raises itself by means of its 17-hp hoist. Lifts 1-ton loads to 61½ feet on platform or in concrete bucket (interchangeable). Saves erecting time and constant loss of materials for wooden towers, ladders, scaffolding. Places materials faster, safer. Eliminates hodders. Moves about the job on its skid base. Write for bulletin HS-0.



**Bantam Aluminum Pump**—Weighs 60 pounds, pumps 5100 gph. Primes unfaillingly. Also made in semi-steel. Gasoline engine or electric motor driven. Other pumps from 7,000 to 240,000 gph. Write for Catalog P-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.



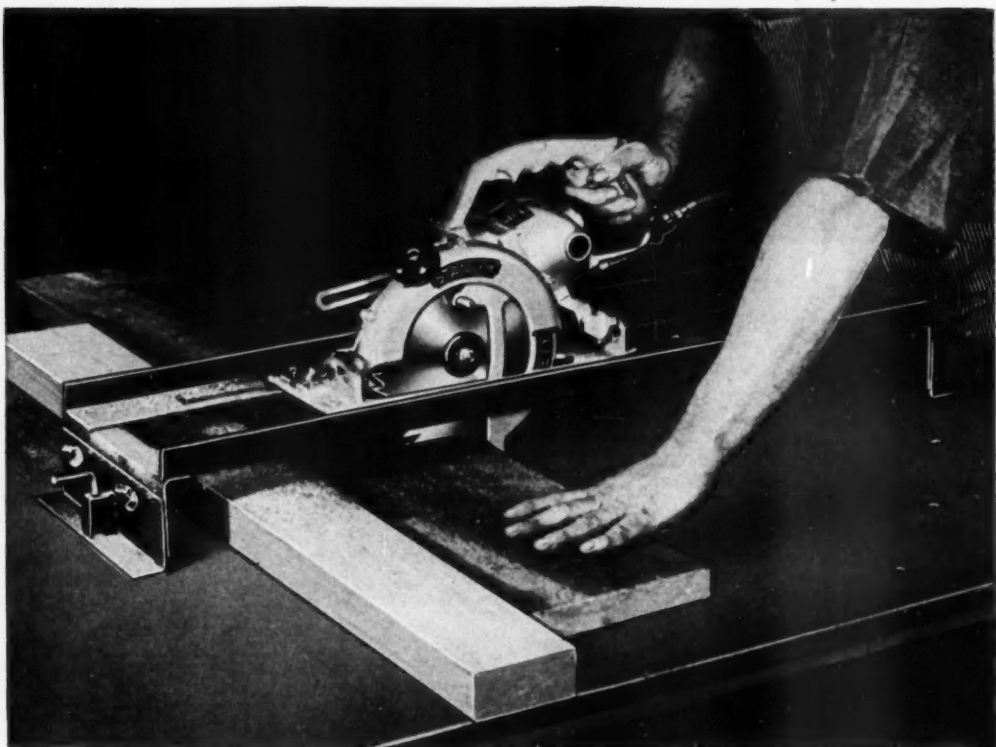
**Plaster-Mortar Mixer**—Keeps crews stepping with better mixed, higher strength material that lays up faster. Saves waste and time. Fast tilt-type discharge. Rugged throughout. Bulletin PM-50 tells all about it.



## THE JAEGER MACHINE COMPANY

521 Dublin Ave., Columbus 16, Ohio

• Distributors in 130 Cities of the U.S. and Canada



## Fast, Accurate Sawing with Sturdy Support

### STANLEY Safety Saws and Saw Track

Here's a time-saving sawing team that pays real dividends — helps you save hours of laying out and marking.

THE STANLEY SAW TRACK guides your Stanley Safety Saw accurately . . . piece after piece . . . as fast as you can push. Track firmly supported on both ends for maximum stability . . . no bounce. Makes square, bevel or mitre cuts. Pivot pin drops into hole in bench for quick angle selection. Adjustments also provided for depth of cut.

W7, W8, or W9 SAFETY SAWS fit Saw Track perfectly . . . provide for wide range of sawing requirements. All saws have ball bearings throughout. Heavy-duty, heat-treated steel gears, well-lubricated, insure smooth operation. Convenient adjustments for bevel angle and depth of cut. Supplied in metal carrying case.

For detailed information on these outstanding Stanley tool buys, see your dealer or write Stanley Electric Tools, 400 Myrtle St., New Britain, Conn.

# STANLEY

Reg. U.S. Pat. Off.

HARDWARE • TOOLS • ELECTRIC TOOLS  
STEEL STRAPPING • STEEL



**SPEEDY  
HELPS  
FOR SANDING**

**No. 77 — 7" Disc Sander.**  
Lightweight, easy to handle.  
Ideal for most needs.



**No. 92 — 9" Disc Sander.**  
Powerful, durable. Does  
smooth, even work on wood,  
metal, or concrete.

# SOMEBODY

*is selling a lot  
of roofing in 1951!*



## Is it YOU?

It can be . . . easily! For, even if restrictions on credit and new home building are reducing the volume of new construction, there's still a tremendous reroofing, repair, and maintenance market in this country's millions of *old* dwellings, farm buildings and other non-residential structures.

Today, the owners of these buildings have money to spend—money that in other years might have gone for consumer goods now hard to get. These people are giving attention to their roofing needs.

Barrett can help you get in touch with them—through Barrett's powerful, full-page, full-color advertising in *The Saturday Evening Post*, its interest-compelling ads in farm and home magazines, and through its unmatched sales promotion program, which includes almost every type of successful point-of-purchase advertising.

So get in touch with Barrett today. Let your Barrett representative give you full information about the *complete* Barrett line, which includes special lock-type shingles as well as "conventional" designs—everything you need to build up profitable reroofing business.



### THE BARRETT DIVISION

ALLIED CHEMICAL & DYE CORPORATION

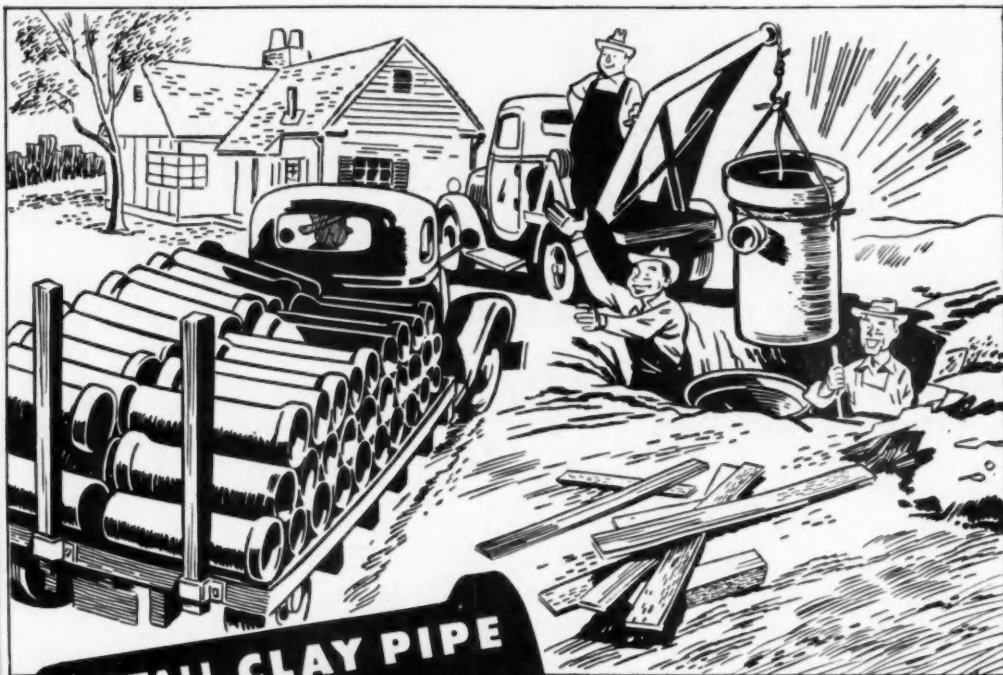
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205 W. Wacker Drive, Chicago 4, Ill.

1327 Erie Street, Birmingham 8, Ala.

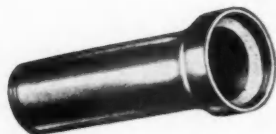
36th St. & Gray's Ferry Ave., Philadelphia 46, Pa.

\*Reg. U. S. Pat. Off.



## INSTALL CLAY PIPE FOR SUBURBAN SANITATION

GIVE your customers in rural and suburban areas trouble-free sanitary protection . . . with the same long-lasting material that most city-dwellers enjoy — Vitriified Clay Pipe. Individual disposal fields of Clay Pipe actually *outlast* the homes they serve. They mean healthier, more comfortable living for your customer — and protect *your* reputation as a quality builder. Clay Pipe disposal fields are never affected by the corrosive action of sewage acids, ground waters, chemicals of any kind. You finish the job sooner, because Clay Pipe is easy to install — with a *complete* assortment of fittings that eliminate any on-the-job delay. And Clay Pipe's low original cost leaves you plenty of profit. Use it on *every* job to conserve critical materials so that you can *keep on* building — and provide the best in individual sanitation.



### NATIONAL CLAY PIPE MANUFACTURERS, INC.

100 N. LaSalle St. Rm. 2100, Chicago 2, Ill.  
204 Connally Bldg., Atlanta 3, Ga.  
703 Ninth & Hill Bldg., Los Angeles 15, Calif.  
311 High Long Bldg., 5 E Long St.  
Columbus 15, Ohio

*Vitrified*

# CLAY

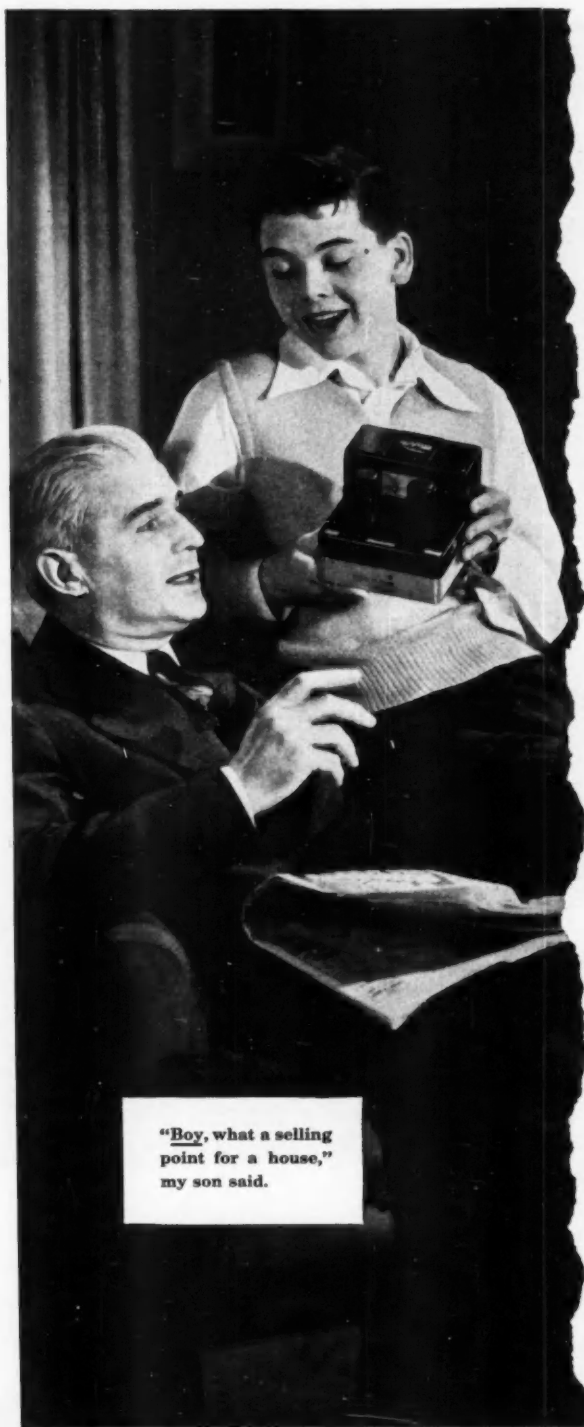


# PIPE



#### WRITE FOR DETAILED INFORMATION

Additional information and data on Vitriified Clay Pipe, Wall Coping and Clay Flue Lining sent FREE on request. State your specific questions. Simply contact the regional office nearest you.



"Boy, what a selling point for a house," my son said.

## My Son Gave Me The Sales Idea Of The Year!

I was sitting in my easy chair one evening, catching up on the baseball news, when my son, Jack, burst into the room.

"Hey, dad," he said, "what's this? What are these vacuum tubes for?"

I dropped my paper and saw he'd found the Honeywell Electronic Control Relay—part of the Moduflow temperature control system I was having installed in my own house. I told him what it was. And—you know how boys are about anything scientific—right away he had to know all about the system.

So I told him about the Outdoor Anticipating Thermostat that senses weather changes, and the clock thermostat that measures indoor temperature requirements. I explained how the relay interprets signals from these thermostats and operates the furnace.

"Gee," Jack said. "I'll bet Moduflow is *really* sensitive with those tubes in the circuit. I'll bet this family will *really* be comfortable from now on!"

"Yes," I said. "Moduflow is up to 100 times as sensitive as conventional temperature control systems."

"Boy, what a selling point for a house," he said. "Everybody's talking about electronics these days."

Well—that hit me between the eyes. Here I'd been putting Moduflow into a lot of the houses I'd built, knowing it made my customers happier and more comfortable. But I'd never thought about it as a *sales* feature. "Man, you ought to be ashamed," I told myself, "having to have a *boy* show you how to sell!"

I didn't waste any *more* time. Since then we've been featuring Moduflow in our sales talks and advertising. And the results have been *wonderful*. Besides, folks are glad to pay a little extra for this feature—so we make a nice extra profit on each house!

Believe me, Moduflow is the sales idea of the year—it's going into *all* the houses I build from now on!

• • •

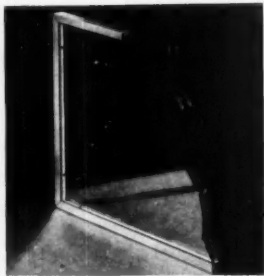
For full information about Moduflow, call your local Honeywell office. Or write Honeywell, Dept. AB-6-92, Minneapolis 8, Minnesota.

MINNEAPOLIS  
**Honeywell**

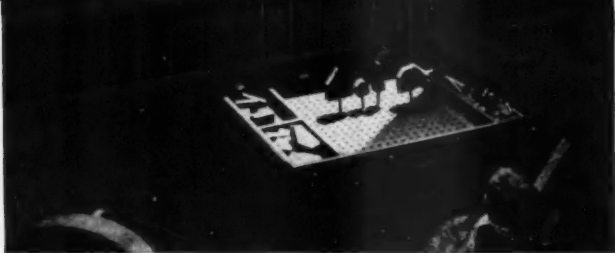
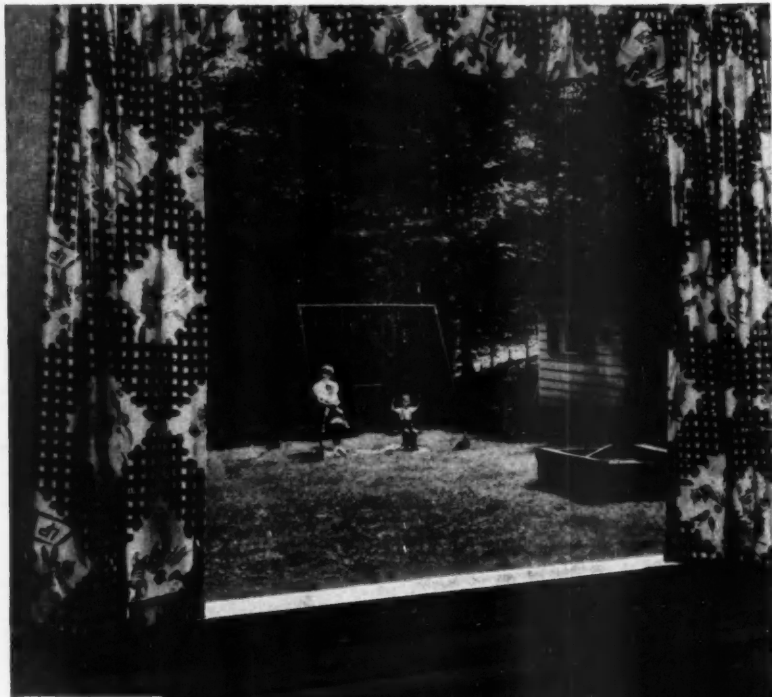
*First in Controls*

To give your jobs that plus-value look..

# Pittsburgh Glass



HOME buyers are more and more demanding large window areas. And builders are increasingly turning to Twindow, Pittsburgh's window with built-in insulation, because of its high quality, dependability and economy. "Twindow has the edge!"—literally and figuratively. Its stainless steel frame makes handling easier and safer, saves installation time on the job. Twindow is made up of two panes (see cut-away view above) of Pittsburgh Polished Plate Glass, with a hermetically-sealed air-space between. This gives nearly twice the insulating value of ordinary, single-glazed windows. Forty-seven standard Twindow sizes are available.



STRUCTURAL Mirrors, in bedrooms, as well as in living and dining rooms, reflect light, color and movement. They give double beauty by repeating the room's gaiety and decorations; increase its apparent size. When you install Pittsburgh Mirrors, the plus-value you offer your customers is immediately apparent, for their reflections are flawlessly accurate.

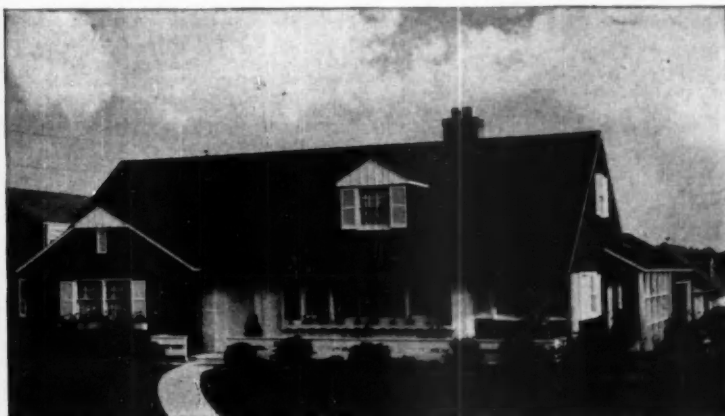


• • • •

# can help you!



HERE Carrara Structural Glass has been effectively utilized for kitchen counter tops and splash. That means a brighter kitchen . . . a more pleasant place in which to work. Carrara adds beauty to the bathroom, too. It is easy to clean, stays new-looking and sparkling indefinitely. Ten attractive Carrara colors offer a wide range of color-scheme possibilities. Other uses for Carrara include fireplace surrounds, window sills, shelves. Architect: A. G. Jones, Los Angeles, Calif.; Contractor: Anderson and Turnbull, Los Angeles.



BUILDERS have proved to their profit that the ample use of glass provides that extra measure of value buyers always look for. This home features a picture window of Pittsburgh Polished Plate Glass. The other windows are glazed with Pennvernon Window Glass — recognized as "window glass at its best." Architects: Matern & York, Jamaica, New York.

## 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

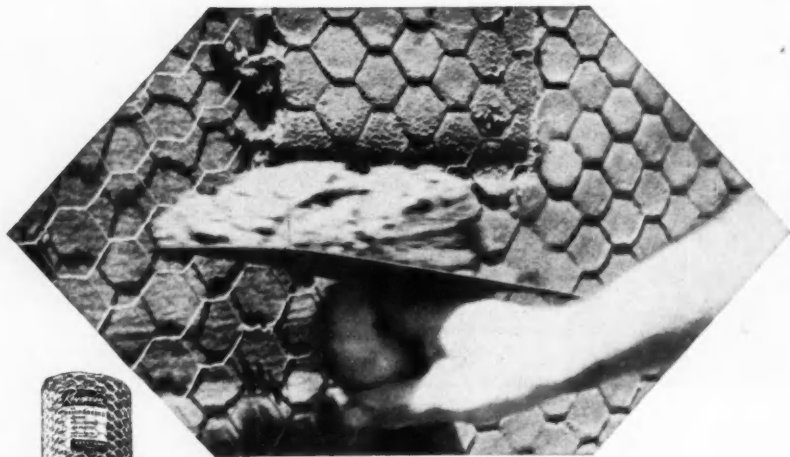
PITTSBURGH PLATE GLASS COMPANY



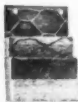
# *Dollars shaved without cutting values*

You don't have to be a magician to make houses "look like more than they cost" if you use the Keystone System of Stucco Application. And with this system durability is added to the original good looks and economy.

More and more builders and contractors 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.



**KEYSTONE SYSTEM OF  
STUCCO APPLICATION  
WITH KEYMESH**



...By the Makers of: Tie Wire, Welded Fabric, Non-Climbable Fence, Halls, Gates, Keystone Poultry Netting, Red Brand Fence and Red Top Steel Posts





Here's **ADDED** proof

of the Great Acceptability of  
**BRIGGS BEAUTYWARE!**  
first choice in  
**NEW YORK**  
**HOUSING PROGRAM!**

The biggest builders don't take chances! They use equipment they *depend on*—equipment they *know* for quality and durability! That's why Briggs Beautyware is first choice among leading project builders from coast to coast!

In the mammoth New York Housing Program, for instance, Briggs Beautyware has been installed in 5,123 apartments since 1948. It has been specified for a total of 11,753 apartments now in the construction or planning stage. This is just *one of many* important building projects where Briggs Beautyware has been used!

Whether yours is a big job or a small one—*follow the leaders!* Install modern, appealing Briggs Beautyware plumbing fixtures and know you are using the best!

BRIGGS MANUFACTURING COMPANY  
3001 MILLER AVE., DETROIT 11, MICHIGAN

**BRIGGS BEAUTYWARE IS BEING USED  
IN ALL THESE N. Y. HOUSING PROJECTS!**

- Amsterdam Houses
- Astoria Houses
- Jacob Riis Houses
- Sedgewick Houses
- South Beach Houses
- St. Nicholas Houses
- Todt Hill Houses
- Stephen Foster Houses
- Boulevard Houses
- Lexington Houses
- Dyckman Houses
- Morrisania Houses
- Ravenswood Houses
- Woodside Houses

© 1951

**BRIGGS**  
*Beautyware*

PLUMBING FIXTURES

International Show Room—101 Park Ave., New York City

Take it from  
this  
**SUCCESSFUL**  
builder!

*679 Deluxe Apartments...  
and again  
it's Kelvinator!*



Mr. E. J. Frankel  
Builder, Philadelphia

THIS is building on the grand scale—three new deluxe apartment houses by Philadelphia's eminent builder, E. J. Frankel. All are going up right now. For these top achievements of his career, Mr. Frankel has selected only the equipment proved most practical and satisfactory over his long experience. He has again chosen Kelvinator refrigerators. "I find on my own records," Mr. Frankel says, "that Kelvinators perform at extremely low cost, year in and year out. And they're top favorites with our residents."

Get low refrigeration costs and insure user satisfaction in *your* new projects. Choose Kelvinator. For full information, write to Dept. AB, Kelvinator, Division of Nash-Kelvinator Corporation, Detroit 32, Michigan.



Parkway House, Philadelphia

231 Apartments . . . 231 Kelvinators!

Complete air-conditioning . . . large, deluxe apartments  
. . . large, deluxe Kelvinators up to 11 cu. ft.!

Architects:  
O'Shiver and Knopf



Warwick Apartments, Atlantic City  
280 Apartments . . . 280 Kelvinators!

Architects:  
Warwick and Duval



Duval Manor, Germantown  
168 Apartments . . . 168 Kelvinators!

Architects:  
Warwick and Duval

**Kelvinator**

DIVISION OF NASH-KELVINATOR CORPORATION, DETROIT 32, MICHIGAN

REFRIGERATORS, RANGES, FREEZERS, WATER  
HEATERS, AIR DRIERS . . . *Electric, of course!*



Kelvinator featured exclusively, nation-wide,  
in the Good American Home Program.

### **Stopping Black Markets**

**O**NCE AGAIN rumors of black market transactions in certain building materials are being heard. While *American Builder* has no evidence in support of the rumors, it is considered probable that there is some truth behind them. And it is certain that even a little black marketing is dangerously disruptive as well as illegal.

There are at least two immediate and serious results of black market transactions. One of these is to accelerate the inflation spiral which curtailment of supply is designed to curb. Allowed to gain momentum and run its course, black market distribution is ruinous first to building then to the entire economy. The other immediate result is to defeat the efforts of producers to effect equitable distribution of scarce materials so that all users will get a reasonable share of the total.

The question has been raised as to what the manufacturers can or should do to eliminate or curb black markets. Disregarding the possibility of a colusive manufacturer's salesman here and there, black marketing generally begins at the level of the retail supplier, the builder or, occasionally, the wholesaler. Therefore, the question should be, what can be done by everyone concerned.

Granting that there is little to be gained by appealing to the patriotism or the moral scruples of the dishonest distributor or builder, it is up to the manufacturer whose materials are being black marketed and the ethical local distributors and builders to take the initiative.

Probably the only action, but also a very important one, that the manufacturer can take is to instruct his salesmen to look for evidence. It should not be difficult for a salesman calling on distributors and familiar with conditions in his territory to detect suspicious irregularities in inventory, and then do a little quiet investigating. It is natural, of course, that a salesman responsible for volume in his territory now and in the future will be reluctant to involve himself or his company. It is true that spying on anyone is anathema to most Americans. The alternative, however, may be the ruination of an industry.

Evidence of black marketing is almost certain to be in the possession of distributors and builders operating in a local territory. The black market operator usually offers to purchase all of a given scarce material he can locate, and seldom is subtle in stating his proposition. He feels quite certain that no one who refuses to do business at his attractive rates will follow through and institute an investigation. It is here that he is at once safest and most vulnerable.

He can be made completely vulnerable if the ethical business man will recognize that reporting black market proposals is an obligation in the public interest and not undercover spying on a fellow business man. The fact that government tries to stop inflation with one set of regulations while appearing to encourage it with another does not relieve business of policing its own ranks in the interest of orderly distribution.

**PUBLISHER**  
Robert H. Morris

**ASSISTANT PUBLISHER**  
C. J. Wageman

**STAFF CONSULTANTS**  
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## ***How a Small City Lumber Dealer***

# **Staged a NATIONAL HOME WEEK**

**In addition to focusing community's attention on home building and buying, impressions and contacts made during model home display produced actual sales**



**DESCRIPTIVE folders being handed to visitors by Mrs. Tom Talton of Coman Co.**

**T**HAT A SMALL CITY lumber dealer can successfully take the initiative and stage a profitable observance of National Home Week was demonstrated last September by the Coman Lumber Company in Durham, N.C. Although retailers have been slow in visualizing the opportunities for outstandingly successful promotion during National Home Week, which was inaugurated by *American Builder* in 1948, this firm provides another example of what the potential is for this segment of the home building industry.

In the first two days their home was open, more than 12,000 people came to see it in inclement weather. The house was sold the first day for \$22,000 and within 60 days from the day the house was first opened for inspection deals were closed on materials for 30 new houses. The firm enthusiastically credits National Home Week as the factor which brought this business to their organization.

The Coman Lumber Company, owned and operated by J. H. Coman and his three sons, J. H., Jr.; W. T. and J. S., offers design and home planning service for its customers. When the decision was made to participate in National Home Week with a house as the focal point of interest, the first step was the preparation of a plan for the demonstration home. An early start on this, plus good timing in its erection, gave all those cooperating in its erection and showing an opportunity to do a good job. Construction of the house was handled by the James S. Heizer Construction Co.

Building the house and getting it tastefully decorated and furnished was only part of the undertaking. Another very important move was to get the enthusiastic support of the *Herald Sun* newspapers in Durham. A number of advance articles on the demonstration house and National Home Week gradually whipped up in-



IN TWO DAYS more than 12,000 people went through this demonstration home erected and opened by a retail lumber dealer. It was sold the first day for \$22,000 and within 60 days after it was opened the firm sold materials for 30 new homes. This house is located on a lot 100x200 feet

interest. In the editions announcing the opening, a fine series of advertisements by participating local firms and manufacturers plus detailed articles on interesting features of the house, its furnishings and equipment, brought thousands to the premises during National Home Week. In fact the newspapers' advertising manager was so impressed by the success of this campaign that the series of ads which pulled 12,000 visitors to the model house in two days were entered in a national newspaper advertising contest.

The Comans were conscious of the fact that even though crowds come to see a demonstration, the show is not a success from a business standpoint unless every visitor is satisfied and has an opportunity to talk business with a responsible representative of the host firm. With this in mind, a plan to handle the crowds in an orderly manner was prepared and executed by adequate, well-informed personnel. Every visitor also received a four-page printed folder describing the outstanding features of the house and, of course, identifying the Coman Lumber Company as the host. These folders were handed to each visitor entering the house, instead of being placed on a table for visitors to pick up as they passed



WELL-PLANNED newspaper advertising and publicity were responsible for stimulating interest, drawing record crowds



WELL-INFORMED, courteous members of the retail lumber firm's staff were on hand at strategic locations to answer questions and discuss problems with model home visitors.

## Many Practical Ideas and New Materials are Demonstrated in the Ranch House

### The Beautiful Roof . . .

**BIRD MASTERBUILT ASPHALT SHINGLES—**  
See Color Guide

### The Rich Red Exterior Walls . . .

U. S. PLYWOOD WELDER under a  
protective shield of REPUBLIC HOUSE PAINT

### The Amazing Windows !!!

Smooth-opening GATE CITY AWNING  
WINDKOV'S permit 100% ventilation in  
hot weather—sing in steps here too  
in cold weather.

### Cabinet Space Galore !!!

MORGAN WOOD CABINETS and custom  
millwork by COMAN LUMBER COMPANY . . .  
Ergonomically correct hardware . . . Permanent  
cove-top tops of indestructible MEGARTA . . .

### Permanent Bathroom Walls . . .

of MARLITE, prefinished waterproof  
plastic wallboard.

### Walls with Character . . .

Knotty white pine and yellow pine paneling by  
COMAN LUMBER COMPANY . . . Harmonizing  
REPUBLIC PAINT colors—from COMAN'S  
PAINT & HARDWARE DEPARTMENT . . .

### Luxurious Flush Doors . . .

of Mahogany by U. S. PLYWOOD  
CORPORATION for any interior.

### Insulation . . .

Summer and winter comfort with REFLECTIVE  
KIMSUL . . . By COMAN . . .

### Durable Oak Floors . . .

from COMAN LUMBER COMPANY . . .

### Smooth Seamless Walls . . .

of fibregal GYPSUM WALLBOARD—  
never crack! . . .

### Live Television Is Here !!!

Ronald Brunson brings TV to Durborn  
— Beautiful ZENITH TELEVISION  
COMBINATION SET from MILLER-  
BRUNSON, 300 W. MAIN STREET.

### Clean Warm Air . . .

with OIL the modern heating fuel  
from GWALTNEY OIL CORPORATION . . .

### Lovely Drapes . . .

from BELK LUGGITT . . . Kitchens and Bath  
linens from the BELK linens department . . .

### Traditional and Modern Furnishings . . .

at QUINN FURNITURE COMPANY blend  
traditional . . . Furniture arrangements by Mrs.  
V. M. Davison . . . Paints by Carroll Stralwick,  
Hillcrest . . . Watercolor by Jan Pace, Durham.

### Easy Kitchen and Laundry Work . . .

BING MILLER and BOB HURST present the  
ELECTRUM range, refrigerator and washer . . .  
Baths and kitchen appliances . . . from  
MILLER HURST across from the Gay Hall.

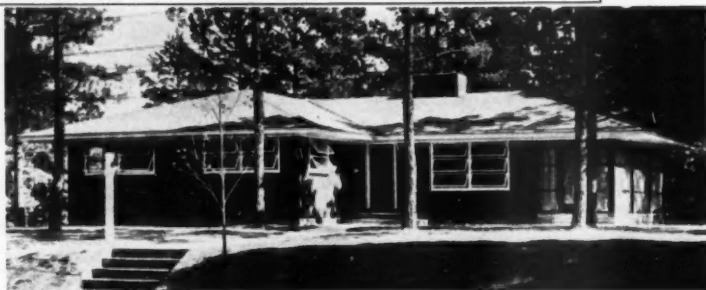
### Washing? . . .

Let HOME BUILDING and LOAN show you  
how to save your cash and money and  
HOME OWNERSHIP . . .

Planning by HERBERT FLEMING & HEATING CO. — Lighting by WHITLEY ELECTRIC CO. — Painting by CLAUDE BURN — Flooring by MICHIGSON — Tiles by BELL FLOORING

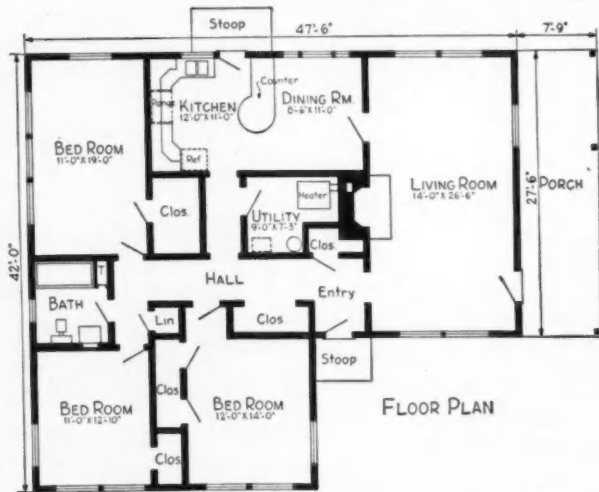
# COMAN LUMBER COMPANY

REPRODUCTION, reduced in size, of the center spread of a four-page 10x12-inch descriptive folder which was handed to visitors as they entered the house. Slogan on the back page, over the company's signature, reads: "The Happiest Way to Live is in a Home of Your Own."



through. When the crowds were heaviest, it was necessary to keep the line moving and this was done in a courteous, well-organized manner by firm personnel who answered questions intelligently as fast as they were put to them.

Several outstanding features of this house drew outstanding interest and comment. One of them was the use of a corrugated glass screen over the snack bar separating the kitchen from the dining area. Another was the use of an underground gutter, which consisted of a buried drain tile covered with small white rocks, level with the grass and practically concealed by it, but porous enough to take rain water away as it dripped from the eaves which are about four feet from the body of the house. The living room and rear bedroom, which was intended as a studio, were paneled with western knotty pine. Another feature was the beamed living room ceiling along with a Roman brick elevated hearth, mantel and exposed chimney.



DEMONSTRATION HOUSE was designed by Coman Lumber Co.



## Stage a Home Demonstration In Your Lumber Yard During NATIONAL HOME WEEK

**W**HAT every lumber dealer in some measure can do to promote his products in the coming National Home Week is typified in a highly successful home show conducted by the Columbia Valley Lumber Co., at Bellingham, Wash., recently. Home shows have long been recognized as a powerful method of stimulating new construction and remodeling business, and while in most cases they are held in public auditoriums and sponsored by a group of merchants interested in the building field, the Columbia Valley Lumber Co. held its show in its own retail sales building.

The lumber firm began by inviting a number of leading local jobbers and manufacturers of both home building materials and home furnishings to prepare exhibits and to have a representative present during the course of the show. Each was given space in which to set up a booth or display and was urged to make the display as interesting as possible.

When the show opened there were a number of outstanding displays. A firm manufacturing roofing, siding and insulation had its representative use a blow torch to demonstrate the fire-proof properties of its insulation materials. A chemical concern salesman used an easel to demonstrate



**MAIN YARD** of the Columbia Valley Lumber Co. at Bellingham, Wash. is seen at upper left. At right is an array of promotional literature used in connection with the firm's recent home show

textured paint. A lumber company made use of a huge shadow box to feature mahogany wall panel and moulding. The booth contained a cross-section of a mahogany log five feet in diameter. A guessing contest regarding weight of the log section was conducted, with a mahogany ping-pong table awarded for the closest weight approximation. Present also were three home economists who demonstrated kitchen and laundry appliances. A plaster contractor participated with an exhibit demonstrating the ingredients of conventional and vermiculite plaster in small trays on the counter, while another display showed the steps in the application of plaster to a wall in a variety of finishes and textures. A paint concern gave away small sample cans of its product.

*(Continued on page 136)*

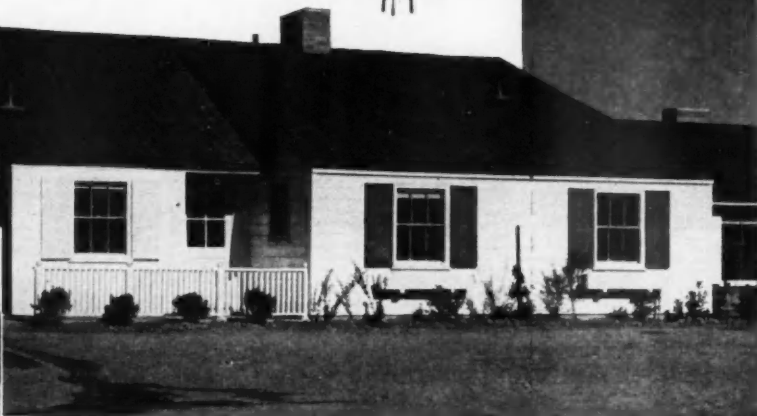


**HOME SHOW** displays feature exhibits of local jobbers and manufacturers in sales rooms of Columbia Valley Lumber Co.

## Design and Color Sell New Homes



RAY HOMMES, developer  
of Meadowlark Park



UNIQUE FEATURES of design are incorporated in all new homes of the Meadowlark Park project

### Los Angeles home builder incorporates unusual features in San Fernando Valley development

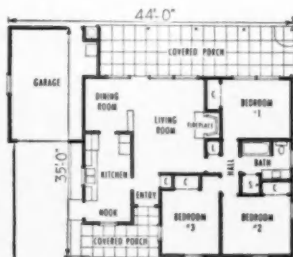
A GREAT NUMBER of improvements in design and in the use of color characterize the modern mass-produced housing units being constructed today in the Los Angeles area. The result is a great difference between the modern units and those produced only a few years ago. Improvements have been added as more and more of the large unit producers have come to realize that the days when "anything will sell" are now definitely over and they must compete for the dollars of the veteran and the prospective home

owner. One firm is doing this by offering a home in the \$10,000 price range that would fit well into a community of homes averaging in price as much as 50 per cent higher than this figure.

These improvements are reflected in the housing units now being constructed in the new Meadowlark Park development, situated in the San Fernando Valley near Los Angeles. Since the climate here is moderate, the new homes are designed with particular regard for outdoor as well as indoor living facilities.



EXTERIOR SURFACE of stucco and wood presents a pleasing and varied appearance



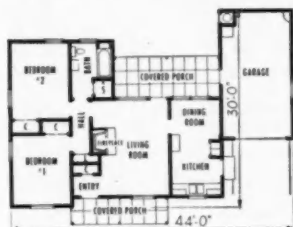
FLOOR PLAN of one of the models of a three-bedroom home at Meadowlark Park

AMERICAN BUILDER





**BEDROOMS** are all on same side of the house and open to hall leading to bath



**EVERY FOOT** of floor space is utilized to meet the requirements of the entire family



**WHITE SHUTTERS** and outside window flower box enhance the exterior of this stucco unit



**EXTRA LARGE** covered porches shelter the front entrance and large patio in the rear

Most homes have covered porches, front and rear. Large windows overlook rear yards, and doors from living rooms provide convenient access to patios. Rear yards are large enough to provide adequate play space for children as well as adult activities.

Among the design features of the new homes are wide eaves, attractive roof lines, and a pleasing variety in the appearance of exterior materials, massive chimneys, and the good placement of garages, recessed entries, shutters, window boxes and

decorative fences. The floor plans feature kitchens toward the front of the house. In most cases the service entrance is only a few steps from the side or the front garage door. In some of the plans the kitchen and dining room are combined, while in others there are separate dining alcoves.

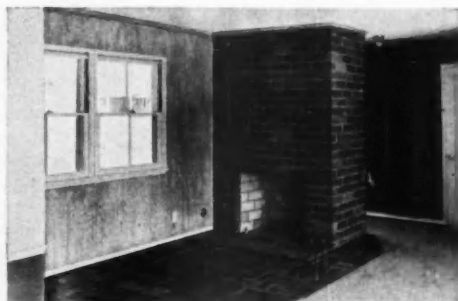
Each unit is equipped with a stall-type shower arrangement with tile floors and tile on the shower-room walls. Wood-burning fireplaces are standard. Wood-paneled walls in the living room, double sinks with tile drainboards trimmed in stainless

steel and equipped with garbage disposal units, entry vestibules, guest closets, ample storage space, and parquet floors are also standard features.

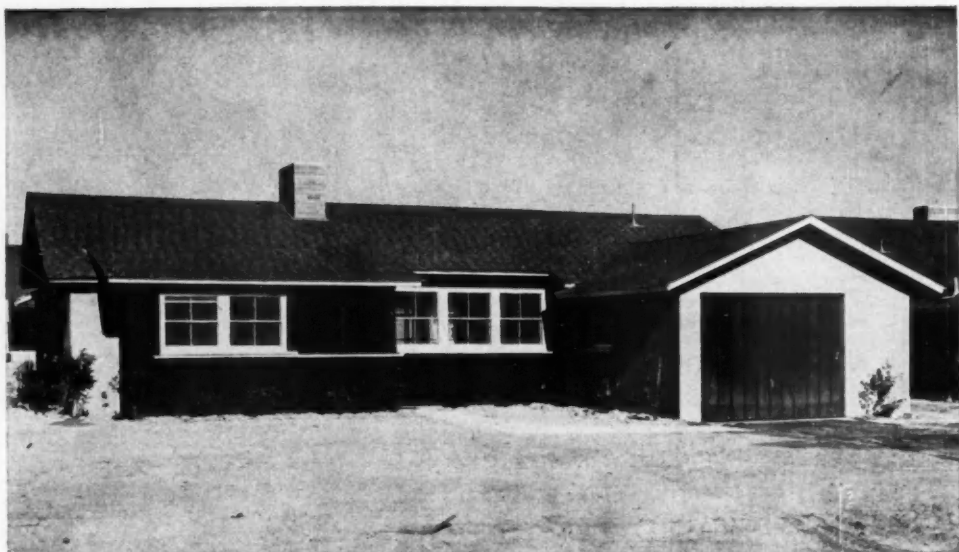
Garages are spacious, permitting room for storage or hobby shop. The water heater is housed in the garage and laundry facilities are placed there in some of the models. Others have laundry trays behind double doors in the kitchens. Closets in kitchens provide ample space for brooms and mops as well as shelves for other articles. In some of the



**LARGE WINDOW** and glass door provide clear view of rear yard



**FIREPLACE** has tile hearth above level of hardwood parquet floor



**OVERSIZED GARAGE** permits room for storage or hobby shop and is situated near house entrance

plans a mahogany-top counter separates the dinette from the living room. This counter is 3 feet high, 15 inches wide and 40 inches long. It has shelves with door for dishes on the dinette side.

Framework of the houses is built on slabs of concrete poured in two sections, with a pouring of asphalt waterproofing material between the sections. Wood parquet floors cover the concrete base in all of the rooms except the kitchen and bath, which are covered in asphalt tile. Various models have different types of roofing and plumbing. All have garbage disposal units and gas wall furnaces.

Meadowlark Park development is the creation of Ray Hommes, formerly a builder of estate homes in the Beverly Hills district of Los Angeles. There are 650 units in the project. The architect is E. H. Fickett.

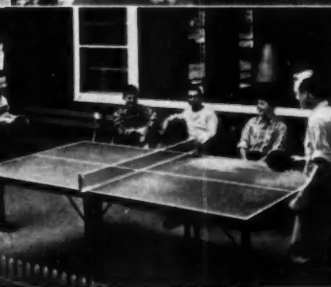
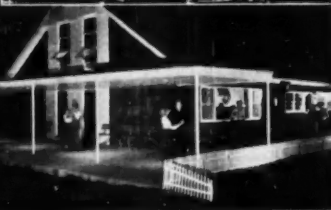
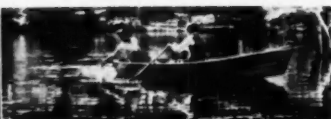
In launching the sales program for the Meadowlark Park development, full-page advertisements were carried in leading Los Angeles newspapers. The result was that 103 of the new homes were sold on the first week-end of the drive. The two-bedroom units start in price at \$9,780 and the three-bedroom models are sold for \$10,710. The highest-priced models are only two or three hundred dollars more than these figures. Monthly payments are computed to include payments on principal, interest, taxes and insurance.

**THREE DOORS** giving access to the outside make simplicity of circulation an outstanding feature of this plan



**LINES** of eaves and gables, use of shutters accentuate ranch-like appearance of home

## Country Club Living at Supermarket Prices



Conveniences and luxuries of estate living, normally within the reach of only a few very wealthy families, are a part of the purchase price of a new home in Forest City, a housing development for middle-income families in Wantagh, Long Island, N. Y. Leo A. Novick is landscape architect, Matern and York the architects, and Housing Associates, Jamaica, Long Island are the builders.

When this project was still in the dream stage it was the hope of members of the building firm that a suitable site might be obtained. They had watched Long Island communities spring up on the flatlands of the area, primarily unplanned collections of look-alike houses, without many of the extras that come with suburban living.

Housing Associates wanted to change all that. They wanted to build a planned community with recreational facilities that made for country living. The 250-acre Ogden Phipps hunting, fishing and game preserve was chosen. This land has long been known for its natural beauty and picturesque lakes, bridges, and islands. It had been used as a bird sanctuary for years.

In developing this heavily wooded area, the builders made every effort to retain the natural beauties of the estate. The houses are scattered throughout the acreage on gently curved streets, and located in such a way that no home is more than a leisurely ten-minute walk from the clubhouse on the lake.

The clubhouse, which is one of the original farm buildings, was remodeled by the builders at a cost of \$40,000. It is located in the woods that border the lakes and is used as a focal point for all community activities. The clubhouse contains a large assembly room with a stone fireplace. Clubrooms and other meeting rooms are included, together with a small lunch room and snack bar. A large outdoor terrace extends along three sides of the building. A group of indoor and outdoor activities center in and near this building both summer and winter.

The main lake, only a few yards

**THE WIDE RANGE** of recreational features shown at left are all included as a part of the purchase price of a new home



PLOT PLAN showing relation of homes and streets to 40 acre park area



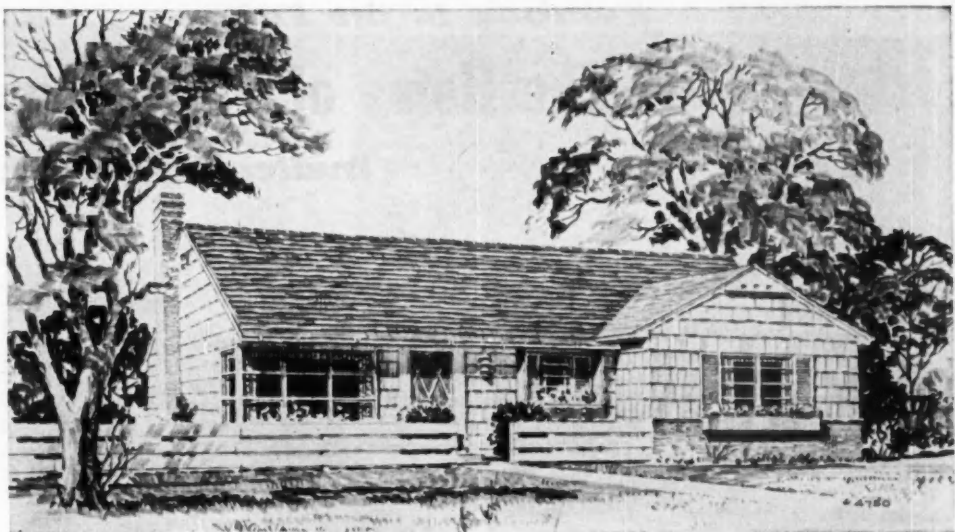
A TYPICAL STREET SCENE. Community features included in the purchase of a home in Forest City are paved streets, curbs, sidewalks, landscaped lawn areas and lights

from the clubhouse, provides year 'round boating, fishing and skating. A 60-foot boat landing, which is heated in winter for the convenience of skaters, extends along the shore. Lakes are stocked with fish for anglers. Swans, ducks and geese have made the lakes their home and feeding them is a pastime of the children. Wooden bridges cross the narrow parts of the lake, and bridle paths wind through the 40-acre park area. Outdoor stone fireplaces and barbecue pits are spotted throughout.

At one side of the park area is a model experimental farm. Here horses are kept for the Forest City residents to ride. Small ponies are available for children. Here are prize ducks, geese and chickens. The eggs are sold to residents at low prices. Rabbits, turkeys and pheasants are raised. It is a real farm, operated by a farmer.

Every family who buys a house in Forest City is entitled to all the benefits of the recreational facilities. The only fee is two dollars a month per family, payable to the Community Association.

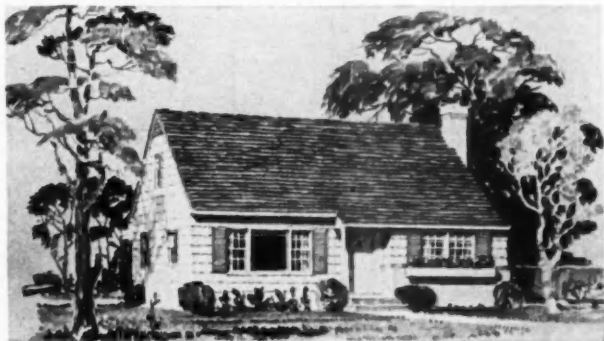
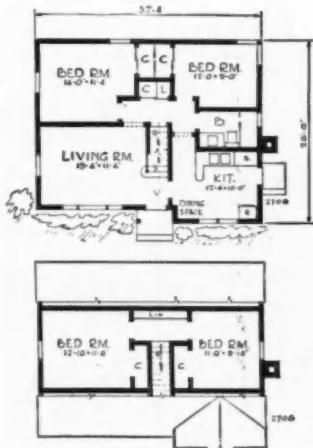
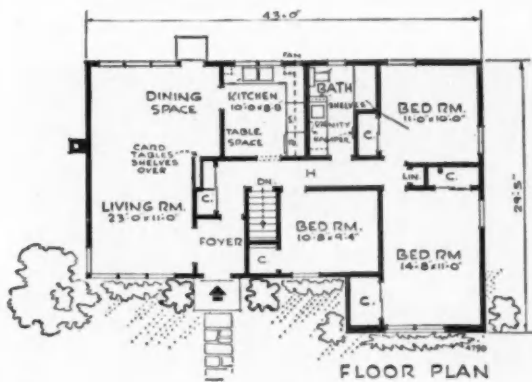
The houses, available in two basic models, sell for \$10,490 and \$11,990. One is a two-bedroom house with expansion attic and full basement. The other is a three-bedroom ranch-type model with full basement. Both



ARCHITECT'S SKETCH showing the three-bedroom ranch-type model house. Plan below

houses have features that are found only in more expensive homes. Land plots range upward from a minimum of 60x100 feet.

This development, which will eventually contain 1,500 homes, represents a comprehensive attempt on the part of private enterprise to combine home building talent with sociological planning. Work was started in February, 1950.

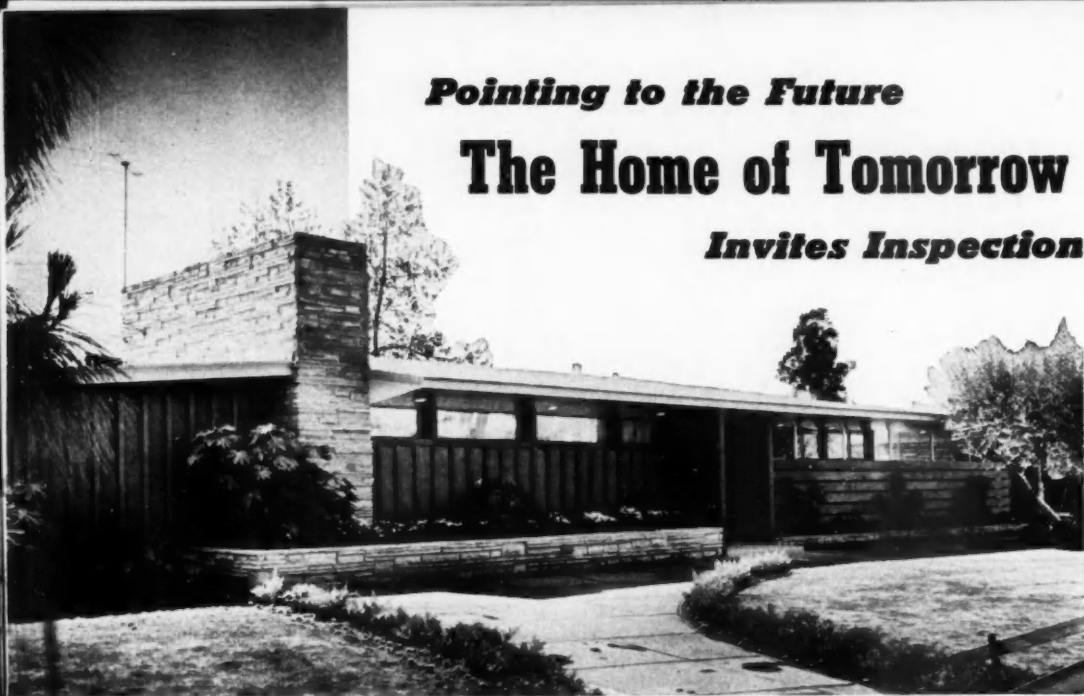


SKETCH of two-bedroom model house with expansible attic and full basement. Floor plans, left, show how attic can be utilized for bedrooms and extra storage space

**Pointing to the Future**

# The Home of Tomorrow

**Invites Inspection**



FRONT VIEW of model home shows exterior of redwood with 2-inch by 3-inch batts spaced 12 inches apart



PATIO is paved with red brick set on edges and borders the lawn

Fritz Burns Postwar House of 1946 remodeled to incorporate newest developments in design, materials and equipment. Welton Beckett and Associates, who designed the Postwar House, also planned its modernization

PLAN showing the modernised home. See April, 1946, *American Builder* for plans on the Postwar House



**T**ERMED by its designers as a "Contemporary classic" in both architectural design and in furnishings, the Los Angeles "Home of Tomorrow" is the 1951 version of the Fritz Burns postwar house which was opened in 1946. At the time that house was opened it incorporated the latest and most refined thinking in design, materials and equipment. This house was featured in the April 1946 *American Builder*. The house has had a marked influence on home design and equipment in the past five years. Since then many of the features of the postwar house have become commonplace. This prompted the Burns organization to undertake extensive modernization and remodeling of the postwar house to again make this house representative of new developments and forward-thinking in design and equipment.

The 1951 house represents the most advanced ideas of construction and materials used in planning, building and furnishing that ingenious manufacturers have made available today. As indicated by its name, "The Home of Tomorrow" was designed to reflect a modern functionalism typifying the American way of life in the mid-twentieth century.

Containing some 2400 square feet in its floor area, the home is U-shaped in plan, and utilizes redwood batten, flagstone and sliding glass walls for the informal appearance of its exterior. The home has no basement and is built upon a concrete slab foundation. A detached, oversized carport serves the double purpose of a workroom and storage area.



**FRONT COVER** photo of this issue is view taken from family room looking out on this court and garden. Note solid wall of glass, half of which slides back out of the way when outdoor living is desired

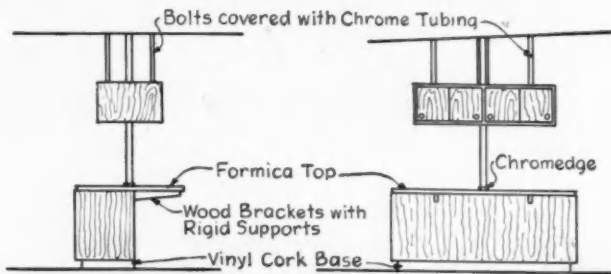
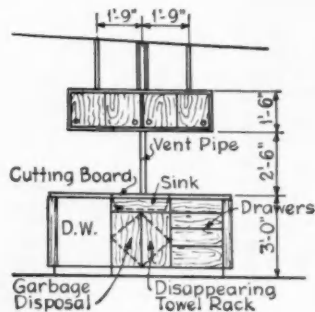
**BARBECUE** kitchen uses Arizona flag for two walls, floor is brick and ceiling is of 2x6's in 24-inch squares covered with plywood. Kitchen is complete since it has refrigerator, sink, broiler, barbecue spit and a fireplace as well as a Youngstown dishwasher



The home is designed around the idea that inside rooms and outside patios are all a part of the same living unit. Thus, just off the bedrooms is a private garden area, just as much a part of these rooms as the furnishings. A full wall of sliding glass doors and screens in each room gives access to this garden and patio. Framed on three sides by the wings of the home is the central patio, shaded by trees and offering a place for dining, playing or relaxing. An outstanding feature of this central patio is its outdoor barbecue kitchen which provides the facilities of an automatic gas cooking top, a gas refrigerator, a gas-fired barbecue, a double sink built into the flagstone counter, and an outdoor fireplace. The entire patio is radiant-heated with hot water pipes in the under-floor heating system. Patio furnishings are modern wrought-iron furniture imported from Italy. The metal is finished in dusty black and is enhanced by the woven hemp seats.

This unique kitchen is termed the "New Freedom Gas Kitchen." It was developed by the Southern California Gas Company, and is designed

AN UNUSUAL feature of this kitchen is the island in the center. Photo shows the breakfast bar with its Formica top. Overhead cabinet is suspended by four steel rods from the ceiling. Fluorescent lights are installed on the underside of the cabinet. Detailed drawings of unit below





and equipped to satisfy the desires and to meet the demands of the modern housewife. The kitchen is planned around a central island containing sink, dishwasher and counter top, which may also be used as a breakfast bar.

One of the features of this kitchen is the built-in automatic gas range. This unit consists of a four-burner cooking top set flush into the counter top, and an oven and broiler built into the cabinets at the end of the counter. The kitchen is also equipped with a 11½ cubic foot refrigerator, which is both a refrigerator and a home freezer. There is a large walk-in pantry, reminiscent of early American days. The kitchen is replete with cupboards and shelves in all available space.

Supplementing the kitchen work area is a complete home laundry, equipped with an automatic washer and gas clothes dryer as well as an automatic rotary iron. Also included in this work area is a sewing center with built-in sewing machine. There is also a planning desk. The kitchen area is finished in natural birch woodwork. Its grey counter tops and beige acoustical ceiling make it an



**LAUNDRY SECTION** of the kitchen. A corner of the laundry tray is visible and next to it is the washer and dryer. In cabinet just to the right of the dryer is a mangle which slides out. The kitchen has high windows on the street side, inviting living and working area.

Just off the kitchen and separated from the patio by a wall of glass is the family room. This room is designed as a common meeting place for the entire family. The living room is finished in rich dark colors, has a huge native stone fireplace, an intimate dining area and walnut paneled walls. One wall is of glass and overlooks the patio.

JUNE, 1951



**FEATURES** of the master bathroom include skillful use of lighting and mirrors which provide an air of spaciousness. The powder shelf is built along one side of the room

#### Brand Names of Products Used in Home of Tomorrow

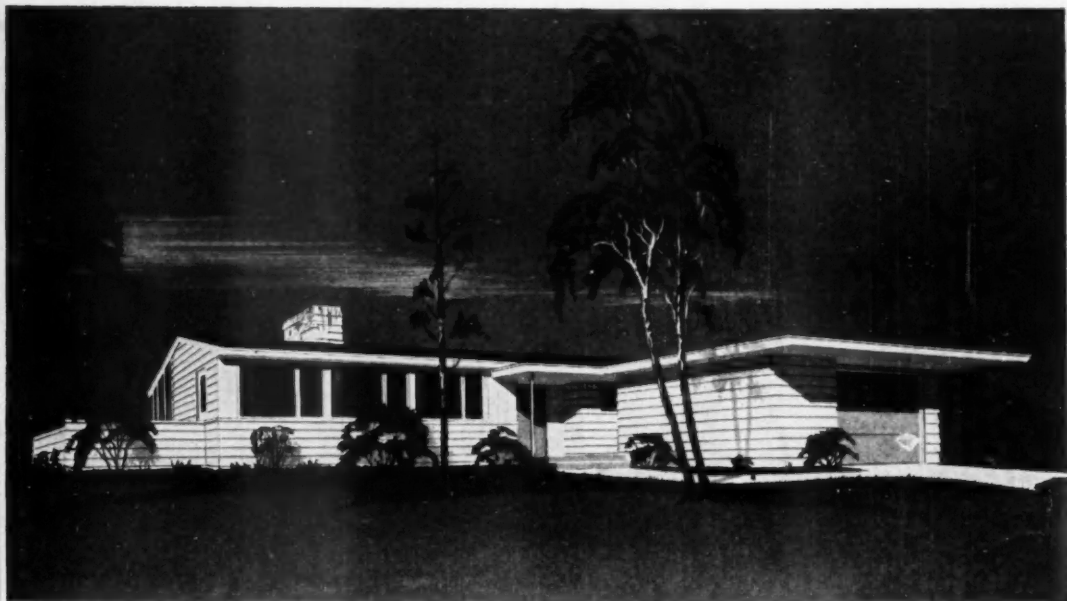
Alex barbecue unit	Formica plastic surfaces
Arcadia sliding doors and windows	Golden State paint
Bendix washing machine, gas clothes dryer	Goodyear rubber tile
Cobalt redwood lumber stain	Libbey-Owens-Ford glass
Cambridge ceramic tile	Minneapolis-Honeywell air conditioning controls
Celestex acoustic ceilings	Sarvel refrigerator
Chrysler Airtemp heating and ventilating	Stalcraft building paper
Clearview kitchen windows	Stromberg-Carlson inter-comm. system
Crane plumbing	Touch Plate low voltage wiring
Crescent sheet metal	Trade Wind kitchen exhaust fan
Davidson concrete and patio work	U.S. Gypsum lath and Redtop insulation
Day & Night hot water heaters	Webster record player
Dodge Vintecor floor covering	Western Holly range
Dunoot television and radio	

The master bedroom has walls of pale yellow silk. Concealed lighting provides soft illumination. Opening off the garden is the guest bedroom which is done in three colors—platinum pink, driftwood grey and silvery moss green. Between the two bedrooms is the elaborate master bath. A second bath is situated in the kitchen-family room area.

New ideas in furnishings are reflected in the new materials, textures, colors, and the novel use of metals blending with the furnishings. Both provincial and continental motifs in furnishings and accessories are co-ordinated with antique and contemporary style in an unusual manner. Colors include subtle blends of warm, inviting tones, tex-

tures are of natural linen, Peruvian linen, burlap and hand-woven fabrics which blend with the finishes in fruitwood and walnut. Parchment-colored cherry wood is blended with woods that are lacquered in deep, dark colors. The master bedroom is "papered" in silk. The guest room is treated in the same manner with burlap wall covering. Cork distinguishes the walls and ceiling of the family room, while handblocked linen characterizes the living room.

The "Home of Tomorrow" was designed by the firm of Welton Beckett and Associates and was constructed by the noted builder, Fritz Burns. It contains many new ideas which builders can utilize for their NATIONAL HOME WEEK promotion.



A LOW, ground hugging effect is obtained in this house through use of horizontal siding and wide roof overhangs

## ***A House Economical to Build***

**A** CONTEMPORARY styled house in which the roof lines and the over-all perimeter are kept plain and simple is the most economical to frame and build in today's market in the opinion of Leonard Wayman, Chicago architect, designer of this month's Blueprint House. Accordingly, Mr. Wayman designed such a house for *American Builder's* readers.

This house, which contains approximately 1280 square feet of living area not including garage and porches, has a host of features usually found only in more expensive homes. These are as follows:

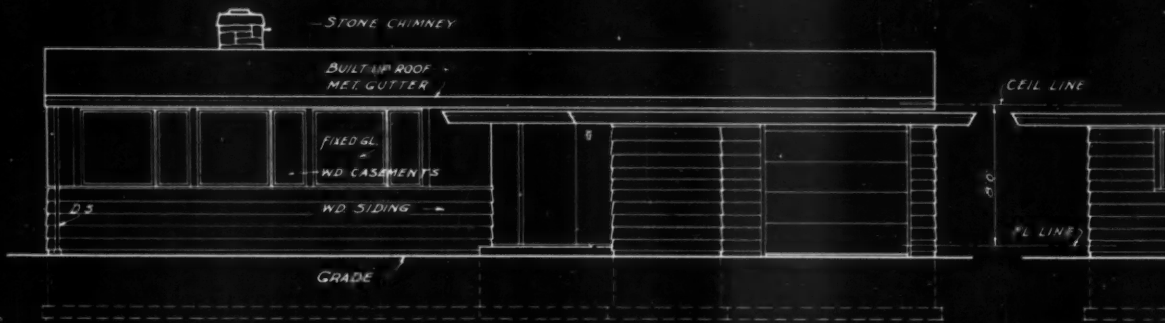
1. House can be placed on a 60 foot lot.
2. Exterior can be faced with siding (both vertical and horizontal), shingles (wood or asbestos), brick, concrete or cinder blocks, without detracting from the character of the design.
3. All ceilings follow the slope of roof rafters eliminating the need of ceiling joists.
4. Two-way fireplace between living and dining room.
5. Multiple use of third bedroom for study or extension of the living room.
6. Three-in-one arrangement of study, living and dining room.
7. Folding partition separating utility room and kitchen.
8. Folding partition separating living room and study.
9. Circulation to all rooms from front hall.
10. Large storage and work room in garage.
11. Sliding doors in all major closets.
12. Space for table in kitchen for informal eating.
13. Emphasis on rear yard living with service units toward the front of house.
14. A total of six rooms, utility and bath within the 1280 square foot total.

### **AMERICAN BUILDER**

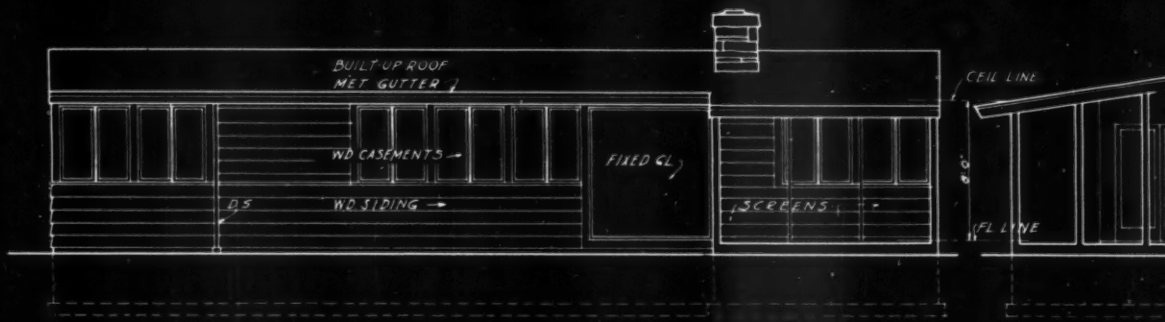
#### **Blueprint House No. 54**

Leonard Wayman Associates, Architects

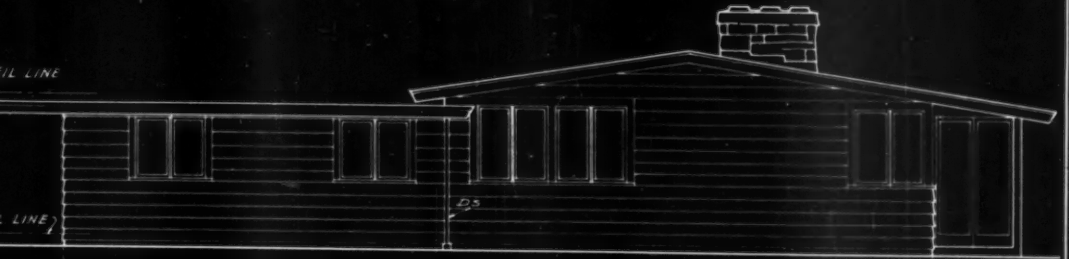
*For complete one-quarter inch scale working plans of this house write American Builder Home Plan Service, 30 Church Street, New York 7, N. Y.*



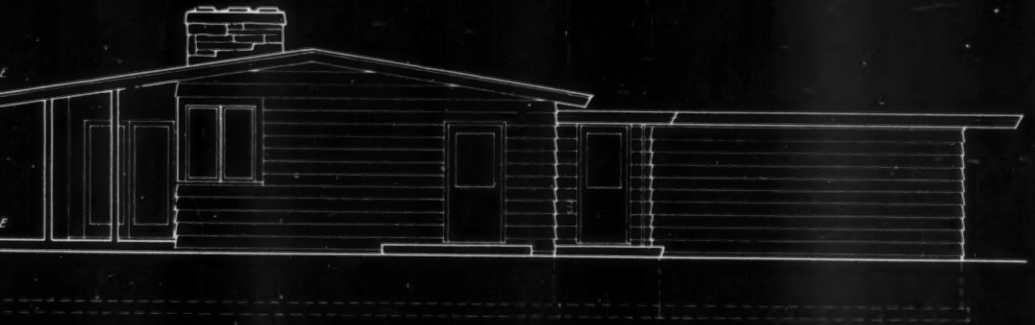
FRONT ELEVATION



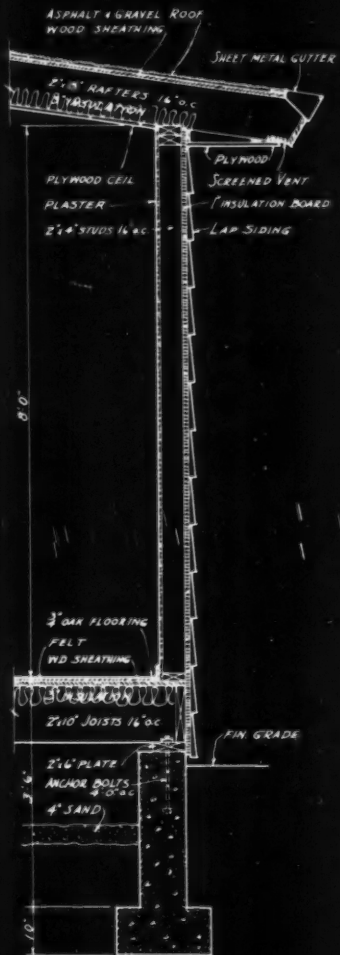
REAR ELEVATION



SIDE ELEVATION

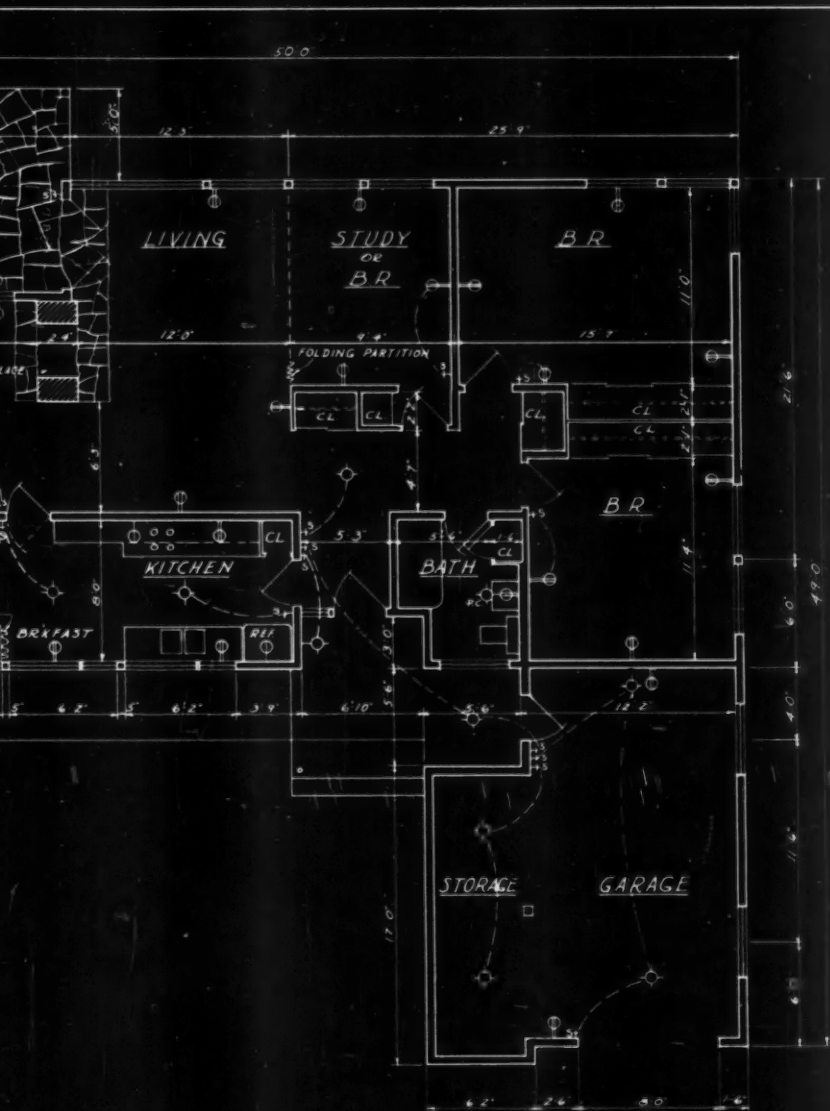


SIDE ELEVATION



WALL SECTION  
SCALE 1/4" = 1'-0"





FLOOR PLAN SCALE 1/8" = 1'-0"

DESIGN NO. A. B. 168  
 AMERICAN BUILDER BLUE PRINT SERIES  
 DESIGNED BY  
 LEONARD WAYMAN, ARCHITECT  
 CHICAGO, ILLINOIS  
 SIMMONS BOARDMAN PUB CORP, 79 W MONROE ST, CHICAGO, ILL

# Quantity List of Materials

## For American Builder Blueprint House No. AB 168

Leonard Wayman, Architect

### General Information

- House — Area: 1,318 sq. ft. Cube: 13,180 cu. ft.  
Note: Height taken for cube was 10 feet.
- Garage — Area: 380 sq. ft. Cube: 3,420 cu. ft.  
Note: Height taken for cube was 9 feet.  
Storage included in garage area.
- Porch — Area: 236 sq. ft.

### Excavating

- Trench for foundation — lineal feet: 257
- Chimney and column footings: 4
- Excavation for crawl space — yards: 217

### Cement Work

- Foundations — cubic feet: 753
- Concrete Work — square feet: 550  
Thickness: 6 inches
- Sidewalks: None
- Miscellaneous: 175 square feet of flagstone
- Anchor Bolts: 50 — ½ inch by 12 inch
- Waterproofing: None
- Foundation Vents: 4

### Masonry

- | Brick                | Stone                | X                    | Other      |
|----------------------|----------------------|----------------------|------------|
| Walls — square feet: | None                 |                      |            |
| Window sills:        | None                 |                      |            |
| Glass block:         | None                 |                      |            |
| Chimney:             | 140 cu. ft. masonry. |                      |            |
| Flue Lining:         | 12'12" x 12"         |                      |            |
| Fireplace:           | Stone                | Throat and Damper: 1 | Lintels: 2 |

### Millwork

- Windows — Type: Casement and Fixed.  
Material: Wood
- Windows Glazed including trim: 3 pr. 18" x 37", 11 pr. 18" x 47", 3 (1 lt. 45" x 47" fixed and 18" x 47"), 1 — 80" x 86" fixed
- Exterior doors — Material: Wood 2 — 2'6" x 6'8" x 1 ¼" 1 lt. French, 1 — 2'8" x 6'8" x 1 ¼" S.D.
- Exterior doors: 1 — 3'0" x 6'8" x 1 ¼" and sidelight 16" wide; 1 — 3'0" x 6'8" x 1 ¼" S.D.

### Garage Door

- 1 — 8'x0" x 7'0" upward acting.

### Interior Doors

- Including jams and trim: 13 — 2'0" x 6'8", 1 — 2'4" x 6'8", 4 — 2'6" x 6'8", 1 — 2'8" x 6'8"

### Special Interior Doors

- 1 — 8'0" and 1 — 11'0", Folding doors

### Carpentry

- Beams and Girders: 5 — 6" x 8" — 10'0"
- Foundation Plates: 14 — 2" x 6" — 16'0"
- Joists: 9 — 2" x 10" — 8'0", 10 — 2" x 10" — 10'0";  
68 — 2" x 10" — 14'0"
- Bridging: 230 lineal feet 1" x 3"
- Studding and Plates: 166 — 2" x 4" — 8', 137 — 2" x 4" — 10', 113 — 2" x 4" — 12'
- Ceiling Joist: None
- Roof Rafters: 60 — 2" x 8" — 16', 12 — 2" x 8" — 22',  
20 — 2" x 8" — 24'
- Framing Lintels: 6 — 2" x 8" — 10', 2 — 2" x 8" — 12',  
1 — 2" x 8" — 14', 2 — 2" x 8" — 20', 2 — 2" x 8" — 24'
- Subfloor: 1725 B.F.M.
- Roof Sheathing: 2950 B.F.M.
- Side Wall Sheathing: 1850 square feet
- Side Wall Materials: 2128 ¾" x 10" bevel siding
- Furring: None
- Carpenter Stairs: None
- Flooring — Hardwood: 1030 area to cover  
Softwood: 280 area to cover
- Exterior Material:
- Soffits: 530 square feet
- Eaves: 176 l.f. 1x6, 80 l.f. 1x8, 100 l.f. 1x3
- Porches: 5 — 4" x 4" — 10'
- Insulation: 2800 square feet

### Rain Conduction

- Gutters: 140 lineal feet
- Downspouts: 45 lineal feet
- Flashing: Chimney

### Roofing

- Type: Tar and Gravel. Area: 2400 sq. ft.

### Interior Walls

- Area to be covered: 3900 sq. ft.

#### A New Exclusive American Builder Feature

With this issue, the well-known American Builder Blueprint House section is being expanded to include a Quantity List of Materials for each of the houses published. This is another first and exclusive feature for the readers of this publication.

The quantity lists accompanying these houses obviously will be subject to variation depending on the common practices in various sections and municipalities of the country, the techniques of individual builders, the types of materials available locally and the cost factors. The list published here is a suggested one, complete enough so that it can be used in arriving at a reasonably accurate estimate of the quantities and cost of materials that will be required to complete the structure.

This list, and future lists which will be published, are prepared by experts at the Hines Lumber Company in Chicago.



## Advance Planning Points to a Bigger NATIONAL HOME WEEK

More communities are planning to observe NHW  
in 1951 than ever before. To aid planners,  
American Builder offers a manual on procedure

**A** SPOT CHECK of the nation early in May by *American Builder* revealed that plans for a more extensive observance of National Home Week in 1951 than the nation has ever seen are already well under way. During the Week of September 9 to 16 more new houses and other attractions typifying the job private industry is doing to house the population will be opened to the public than in any previous year. At this writing more than 50 metropolitan areas have already scheduled observances.

In 1948 and 1949 observance of National Home Week which was inaugurated by *American Builder* in 1948, was spearheaded by the National Association of Home Builders and its local chapters. Last year the National Retail Lumber Dealers Association joined with NAHB in cooperating with the *American Builder* in sponsoring observance of the annual demonstration and merchandising promotion. As a result, a number of retail lumber and building material dealers either showed model homes or staged "open houses" and special displays in their salesrooms. The "open house" technique proves that even the dealers in small towns, where there might not always be a model home to show, can profitably participate in National Home Week. All indications this year point to much more extensive observances by local NAHB chapters as well as by retail lumber dealers.

### Small Towns Participate

In smaller communities, where there is no local chapter of NAHB, builders and dealers are teaming up to plan for a community-wide demonstration of houses, materials and equipment. These observances are planned around an educational theme designed to give prospective new home buyers and those who are considering remodeling an insight into all the materials, equipment and skilled labor that are involved in completing the job.

Enterprising newspapers in cities and towns of all sizes have seized on the National Home Week theme as an excellent fall promotion for a good proportion of their merchant-advertis-

ers. Even where there is no regular real estate section published, newspapers find a special issue built around National Home Week proves highly profitable and successful as a promotion. In a large percentage of the communities which observed National Home Week last year, home furnish-

experience has proved that where sufficient local planning and effort is put into staging the Week, it can be the outstanding annual home building and modernization promotion of the year, regardless of the size of the community. The fact that building materials are sold and houses are built in all communities, large and small, in all sections of the nation, makes National Home Week adaptable to observance in communities of all sizes. The methods employed to stage the Week in a large community are naturally different from the techniques used in a small town, but the objectives and end results should be the same—the stimulation of interest in and sale of new houses, building materials and home equipment.

### Planning Manual Available

To assist local communities in planning and observing National Home Week the *American Builder* is offering a manual which explains various methods of staging the Week in different-sized communities. This has been prepared in response to numerous requests from builders, lumber dealers, civic groups and newspapers. It is being made available without charge to assist all areas in further capitalizing on National Home Week.

Last year approximately 10,000 model houses were on display during National Home Week in 44 cities in 24 states. In addition to a large number of individual builders and dealers who have launched plans for observing the Week in their communities a sizeable number of local NAHB chapters which have not promoted the Week in previous years, have revealed plans for 1951 observance.

Last year a number of major manufacturers of materials and equipment for homes featured National Home Week in their fall promotion, which further heightened interest. Display of their materials and equipment in model houses and in lumber dealer sales rooms was tied to national and local advertising. Indications are that this phase of National Home Week promotion will also become more general in 1951.

## How To Plan

*For a Successful*

**NATIONAL  
HOME  
WEEK**

*In Your Community*

WRITE for this NHW planning aid

ing and appliance retailers found the display of their products in model houses and on the floors of their stores during National Home Week surprisingly remunerative. This type of advertising not only resulted in a good volume of immediate sales for them, but made new friends who later became customers of their stores.

Builders and dealers will find the 1951 National Home Week an excellent opportunity to stimulate sales, which they will probably need at that time if present trends continue. It will also give them an opportunity to show the public that the home building and modernization industry has not been stymied by loss of a few critical materials. Alternate materials can be shown to the public on the job where visitors can come and see for themselves how ingenious members of an industry have been able to make substitutions without sacrificing quality.

National Home Week has been described as "the greatest merchandising idea ever conceived for the home building industry." In the short time since it has become a national observance,

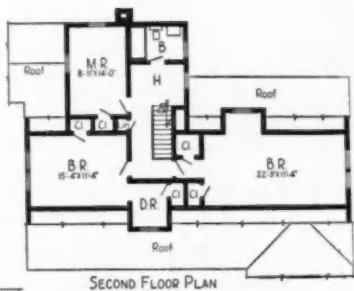




EXTERIOR FACING is a combination of field stone and wood shingles. Second floor can accommodate three bedrooms and a bath



## A House with Cape Cod Influence in Ideal Setting



A SUCCESSFUL venture in home building requires first of all a good, well drained site with a number of well placed trees for shade, in addition to sound, practical home design and planning.

All of these attributes are included in this month's Selected Home located on Long Island, N. Y., and designed by Matern and York, architects, Jamaica, L. I.

The lines of the exterior of the house, which follow the Cape Cod precedent, employ many characteristics made popular by these architects. A combination of local stone and double coursed shingles is effectively used in the design. Of particular interest is the recessed front entrance with a wood fret design on either side. Restrained use of window blinds, flower boxes and wood fences as accessories is well handled. An interesting feature is the treatment of the gable over the front bedroom to include a bird sanctuary.

The plan embraces five large rooms, halls, closets and one bath. A screened breezeway extends from the kitchen to a two-car garage. The second floor area is left unfinished but is large enough to accommodate three additional bedrooms and a bath when the need arises. The basement, which does not extend the full length of the house, contains ample space for all utilities, in addition to a large recreation room.

# Ban on Commercial Building Defers Housing Project

Postponed Landia development would have used the lessons learned in building Levittown to create a new model community on Long Island

DETAIL VIEW of front entrance of the Landia model house

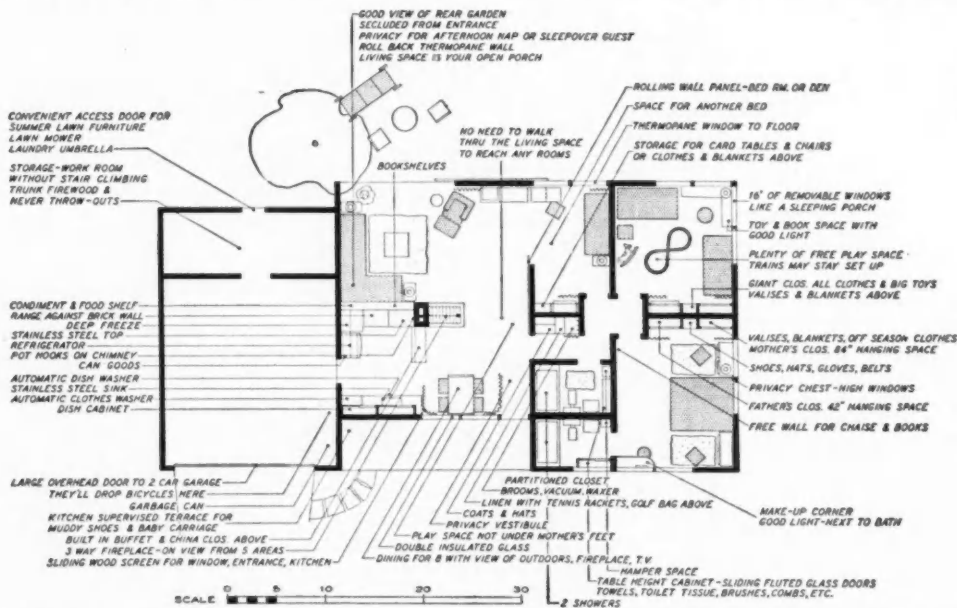
**T**HE recent directives of NPA banning construction of all commercial buildings for the duration of the present emergency caused Levitt & Sons, Inc. to hold in abeyance all work in connection with the proposed Landia development, a community of 1750 homes at Jericho, L. I.

The Landia project was planned to be self sufficient. Construction was to start in March and be completely finished by December, 1951. In addition to the homes, the work was to include a \$250,000 "town hall," shopping centers, railroad station, recreational areas, playgrounds, swimming pools,

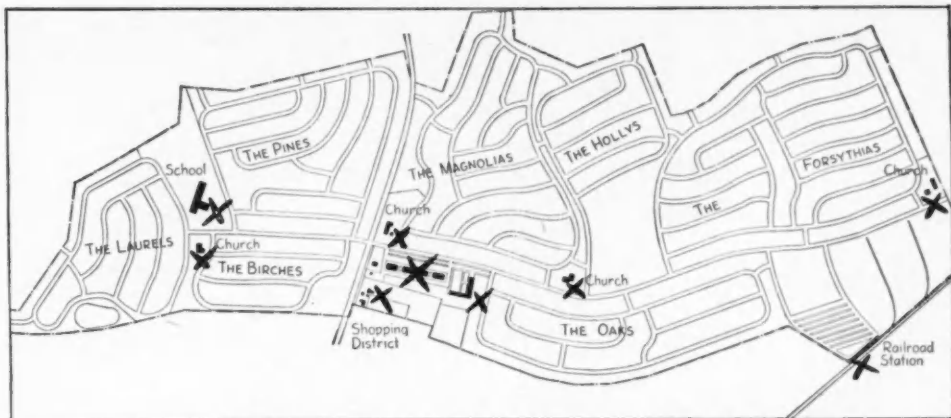
parking lots, schools, churches and sites for two or three light industries in the 700 acre site.

Levitt envisioned that in Landia workers would live in the community and walk to work. Consequently without the commercial and other feature buildings, much of the sales inducement would have been lost; therefore the entire project has been postponed.

The Landia house, a model of which has been built on the site and completely furnished, is the feature unit of the proposed development. As designed by Alfred Levitt, it is described



TELL-ALL PLAN of model house showing furniture is sales aid in helping customer visualize the living comfort of proposed home



**PLOT PLAN** of proposed 700 acre Landia community consisting of 1750 homes. Crosses show buildings banned by government directives

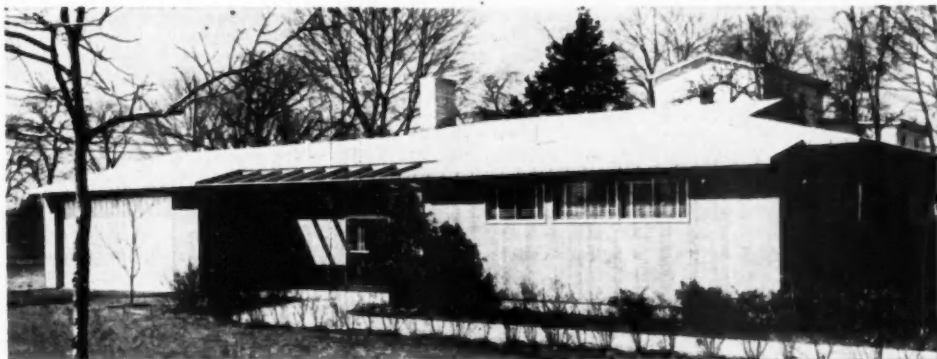
as a low cost "luxury house." It provides for comfortable living at a price within the reach of a family with a \$5,000 a year income.

Its 1200-square feet of living space includes three bedrooms, two baths, large open living room, dining space, three-way wood burning fireplace, and a kitchen complete with electric stove, refrigerator, automatic dishwasher and clothes washer and a four cubic foot home freezer. The living room has a 12 foot sliding picture window which can be opened in warm weather. Two 16 inch exhaust fans, one in the living room, the other in the kitchen, provide what Alfred Levitt calls "poor man's air conditioning." A two-car attached garage, with a utility room for storage, adds 400 square feet to the house.

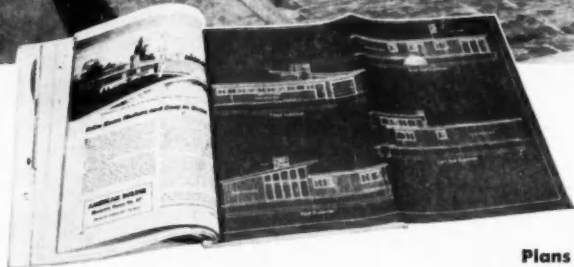
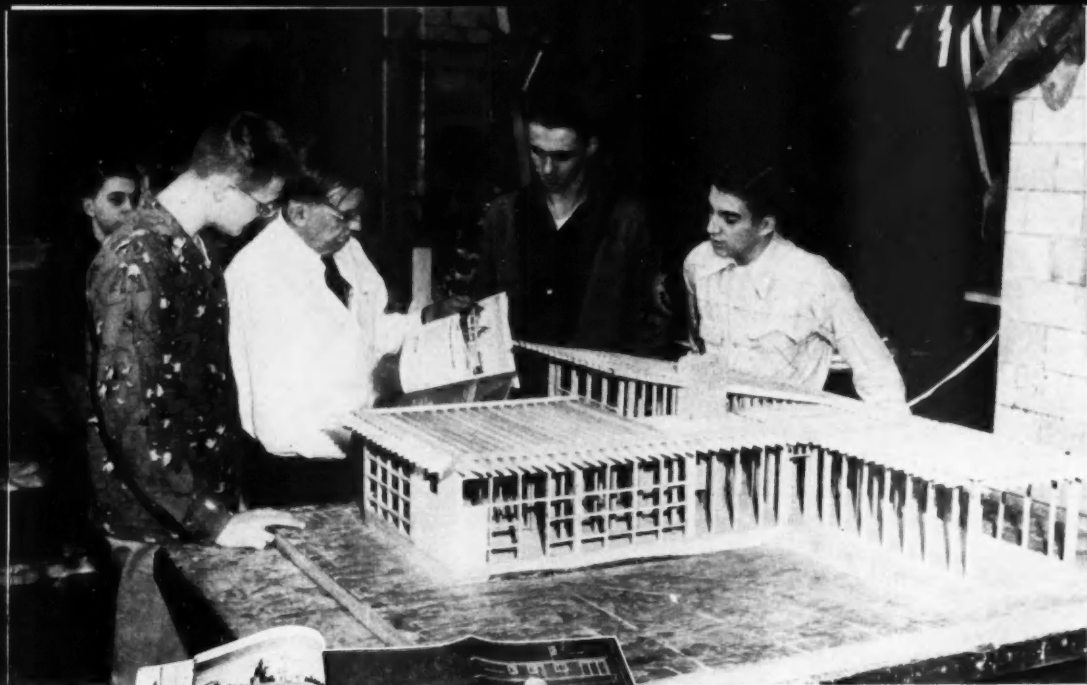
Although Landia has been postponed for the duration, the town plan and the house have not. The Levitts plan to adapt it to any defense housing they build during the emergency.



**GENERAL VIEW** of living room showing fireplace which is positioned to form a separation between kitchen, dinette and entrance hall



**FRONT VIEW** of model house. The 80-foot-wide lot would allow ample space for outdoor living



## ***Training***

**Plans of model houses are used in teaching high school pupils in construction methods. Classes make use of *American Builder* blueprints and floor plans as a basis for study**

**H**OW the *American Builder* aids future builders is demonstrated by two Chicago high schools which use it in their woodshop and drafting departments. Students enrolled in the architectural courses at Lane Technical high school quickly find that their course of study carries them beyond the scope of theory and into the realm of actual working conditions. Laying foundations, placing studs, erecting joists and rafters into position, and all the fundamental processes in the construction of a house are forcibly brought to the attention of the students. C. V. Olson, course instructor, believes in the sound principle of architectural practice that a draftsman is never thoroughly competent until he has acquired a practical knowledge of the building industry. Thus the best professional designs, such as the prize-winning design of Elizabeth Graham Bell, whose entry

was awarded first prize in the national small homes design competition sponsored by *American Builder* and the National Association of Home Builders, are used.

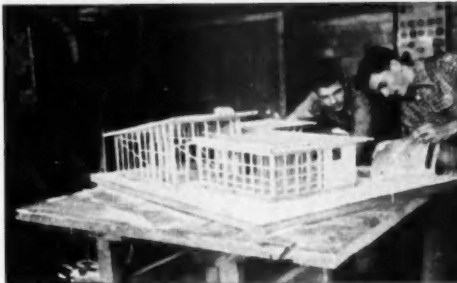
Through these designs and the construction of models from them students see the relationship between the plans and the completed models. Standard working drawings from the pages of *American Builder* are used by each student in the class. His job is to erect in miniature a frame structure according to the plan and information furnished him.

Students begin with the establishment of a proper scale for the erection of the model building. At Lane the students found that a scale of  $\frac{3}{4}$ -inch to one foot provided a model of a workable size, although on dimension stock such as joists, studding and rafters a slight exaggeration was allowable. All dimensions relating to

heights and openings, however, were strictly adhered to according to the scale plan.

In this school all students in the architectural course construct models from blueprints in their second and third semesters. The I-A group studies the application of the steel square to roof and stair building. Realism and the systematic handling of every day building problems as encountered by the journeyman builder are emphasized. The course is intended to make the student see a further purpose in his current work.

Use of power equipment is made available to the students in the school work-rooms and they are trained in the proper use of this equipment. This includes table saws, planers, sanders, drills, routers and various other power-operated units. The basic idea is to instruct the student in structural detail such as the application of studs,



PROGRESSIVE steps in the construction of model homes by high school students from blueprint plans of *American Builder*

## Future Home Builders

joists, rafters, plates, siding and shingling. All angles, such as those in roof pitch, notches on rafters and other applications, are determined and executed by the student using conventional builder's tools. Accuracy is not reduced by the smallness of the scale.

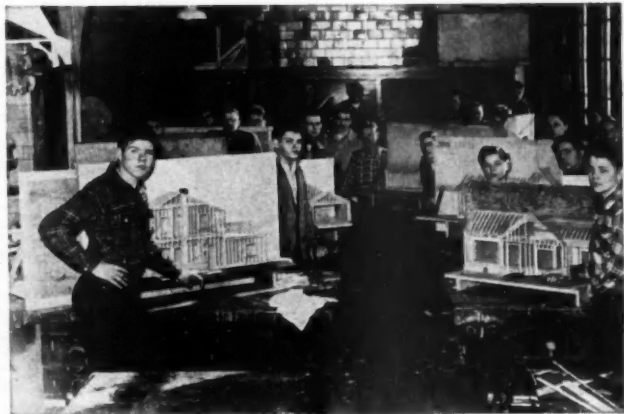
Construction materials used for erecting the model homes in Sem High School may vary from actual wood framing to completely finished models using stiff paper mounted on wood, cardboard, or pieces of plywood. A house may be constructed of Balsa wood. The front elevation of the house can be drawn on paper and colored before being pasted on stiff cardboard or plywood. Another method is to cut cardboard into narrow strips to scale for clapboard siding with each strip overlapped and glued to the Balsa wood frame. Or basswood plywood may be purchased from a hobby shop in 6-inch widths and in lengths of from 12 to 24 inches as a siding or roofing material.

If a completely finished model of cardboard is desired strips cut out of this material for the length of one course on the roof may be overlapped to resemble flooring. Fine grades of sandpaper may be cut for roofing or even used on the sides of the house to

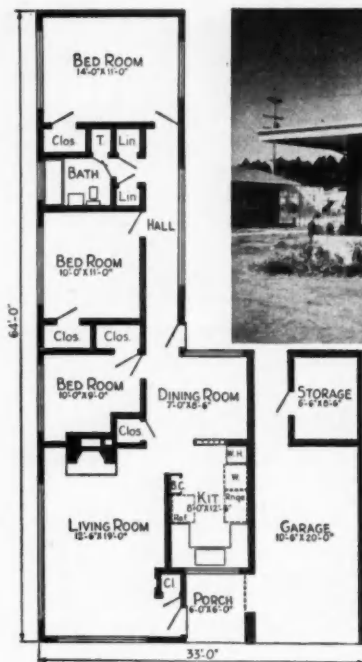
resemble stucco. Students have found that it is well to cut a piece of plywood the size of the over-all floor plan and screw it to the base from the bottom so that after the assembly is completed the house can be removed for painting.

Sides can be glued and corners mitered to the base. Another method of

providing siding material is to glue strips of Balsa wood around the exterior walls. Windows can be made of Balsa wood and glued into place. Plastic windows may be purchased from local hobby shops in a number of sizes and designs. Glue is used as the adhesive material.



A GROUP of students at the Lane Technical high school in Chicago with their models of houses constructed from *American Builder* gatefold blueprints used in the classes



## Builder-Designed "Contemporary Homes"

Of the people who look at his homes  
75 per cent prefer modern design,  
says this Oregon builder who is con-  
stantly looking for advanced ideas

**S**IGNS READING "Contemporary Homes" in a residential section of Eugene, Ore., identify a group of distinctive small houses which, while reflecting the work of the same builder-designer, are yet so varied in appearance as to leave no feeling of sameness.

The builder who does his own advanced designing is Raymond M. Lindberg, who came to Eugene in 1947 and built a home for himself along with another next door—for sale. The sale was made so readily that he tried another. This continued, and by mid-1950 he had com-

pleted 35, most of them sold before they reached the plastering stage.

Lindberg gets his ideas from trade and home magazines, including *American Builder*, and from observation of the work of other builders of contemporary homes. He says that 75 per cent of the people who look at his houses prefer modern architecture, and he believes that many builders are making a mistake by confining their work to the traditional.

One of the most distinctive features of a Lindberg home is the carport. His house with carport costs

\$100 more than with enclosed garage, showing graphically that many extras go into making the ports both attractive and functional. One of his most popular homes, with 800 square feet of floor area, sells for \$9,200 with garage or \$9,300 with carport.

The house shown above is a good example of Lindberg's work. Containing 1,150 square feet of living space, it sold for \$12,500.

The exterior is waterproofed oak plywood siding, made by cutting 4 x 8-foot sheets into 1½ x 8's. It is finished in a striking black with white  
(Continued on page 138)



**A**NOTHER attractive Lindberg home, with large glass areas and pumice stone planting boxes. Cedar shakes are used for wainscot with Weldwood above. Carport is supported by 4-inch galvanized pipes on 4-foot centers. There are three doors to the storage section



**C**ARPORT of unusual design is made of 2 x 8's alternated with three rows of 4 x 8 x 16 pumice blocks. The wall is painted a chartreuse green. Lindberg provides exceptionally large storage space in his carports, a good feature in basementless houses



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# As Others See Us

By R. E. Saberson

**T**HOUGHTS on housing from the notebook of a roving reporter who jotted them down wherever men and women were gathered together and the subject came up for discussion, formally, informally or casually. All are personal opinions of people who may or may not be prospective home owners. Some are thoughtful observations. Others are nothing more than asides. Added up they probably reveal nothing the home building industry doesn't already know. We put them down merely because we have collected them more or less meticulously since World War II ended and America set about to bring an end to the acuteness of the nation's greatest housing shortage and did a whale of a good job by building 5 million homes in four years—despite persistent, acute shortages of manpower and materials. Here are some of our gleanings:

**After Korea:** "There goes my dream home. Maybe it is a good thing. Guess I was about to bite off more than I could chew anyway."

**Prefabrication:** "It's the only way out. Custom-made homes are a luxury only the wealthy can afford. There is no sense in a dozen or more groups of workmen stepping all over themselves and taking all summer to build a home that ought to go up in a week or ten days."

**Anti-Prefabber:** "If I have to buy a prefab, I'll never own a home."

**Big houses:** "They are as dead as dodo birds. It takes too much money to build them. Taxes are prohibitive. No help available to operate them. What's the sense to that!"

**Pro-big houses:** "If I never do another thing I'm going to own a big house before I die. I can find some older people to help me run it. They'll enjoy it too. I like to roam from room to room and the more bathrooms the better. Why not? I've got the necessary money and no one to leave it to. I don't care if I have only a year or two to live in it. It will be a good finish—a dream come true."

**Small homes:** "I want a small push-button home where it will be fun to do the washing, ironing, cleaning,

cooking and dishwashing while soft, sweet music is piped in like they have it in good restaurants. I don't even want to be bothered picking out my programs while I work. One big luxurious living room. A den with books. The rest of the rooms purely functional—small, efficient, workless."

**Seasonal homes:** "We're going to build two outdoor homes—one in Minnesota and one in Florida. We'll migrate with the seasons. On the way south in the fall we'll spend a month in the Indian Summer haze of the Smoky Mountains enjoying the blaze of color on the hillsides. In the spring on our way north, we'll get in our full share of dogwood, apple blossoms and the flowers that bloom in the spring, tra-la. Both homes will cost us about half as much as the conventional houses of our city friends who are jammed up together on overcrowded streets."

**Cooperative apartments:** "Why we ever bought a house is beyond me. When we sold it and bought into a co-op apartment building we had our first taste of real, honest-to-goodness living—no servants, no heating problems, no repairs, no lawns to mow, no snow to shovel. Meals at home when you want them. Cooking in an efficient kitchen that makes it fun. Dinners downstairs if you don't feel like cooking. Pull up and leave any time you want to get away for a vacation."

**Apartments:** "Rooms are now too small for me. Guess I've got a touch of claustrophobia in my make-up. When I survey our box-like 'dwelling' at \$150 per month I can't enjoy a minute of my home life. I have to have space."

**Old houses:** "We're buying an old home and fixing it up. It's the only way you can get good materials and good workmanship."

**Location:** "It's the neighborhood that we are looking at rather than the house. Most houses are pretty much alike anyway."

**Plan-your-own-home:** "You can't be happy in a home that was planned by someone else. Every time you turn around you bump into something you'd like to change."

**Development homes:** "The only way to get a good home is to buy one from someone who is in the business and puts his years of valuable experience into the homes he constructs. What do I know about building a home or the materials that go into it. I've never built one. He has built hundreds. I'll move in the day he finishes the house."

**Houses in general:** "What's so all-fired hard about building a house—living room, kitchen, a couple of bedrooms and a bath or two. It's a cinch compared with an automobile and things like that. Why all the fuss?"

**Neighborhoods:** "You put your money in a home and things immediately begin to happen to the neighborhood. Wrong kind of people move in—families with kids running all over your lawn—dogs in your flower beds. Yet you're stuck with your \$20,000 dream house which actually turned out to be a nightmare."

**New—but little:** "Never knew what it was to enjoy life before we began to build up an equity in a little home of our own. It has changed everything. We now feel secure . . . and we never were happier."

**"Rent free" living:** "Perhaps my monthly payments actually are the same as rent but I'm paying them to myself instead of a grouchy landlord. That makes life worth living."

**Easier and better:** "I can buy a home just as easy as an automobile. I drive out to a new subdivision on Sunday—buy the house—make a nominal down payment—move in the following week—pay so much a month—sell it when I want to move somewhere else. All this talk about the 'backward' home building industry is silly. It's on a par with the automobile industry or any other I know."

**Individual planning:** "We've just been over to our friends' open house. They've planned for ten years and finally found an architect who agreed to put all their ideas into their home. It simply is god-awful."

**Materials:** "Our neighbor has been studying materials for so long he

(Continued on page 140)

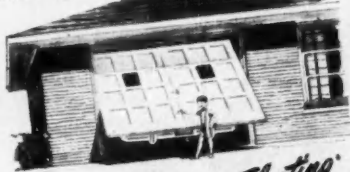


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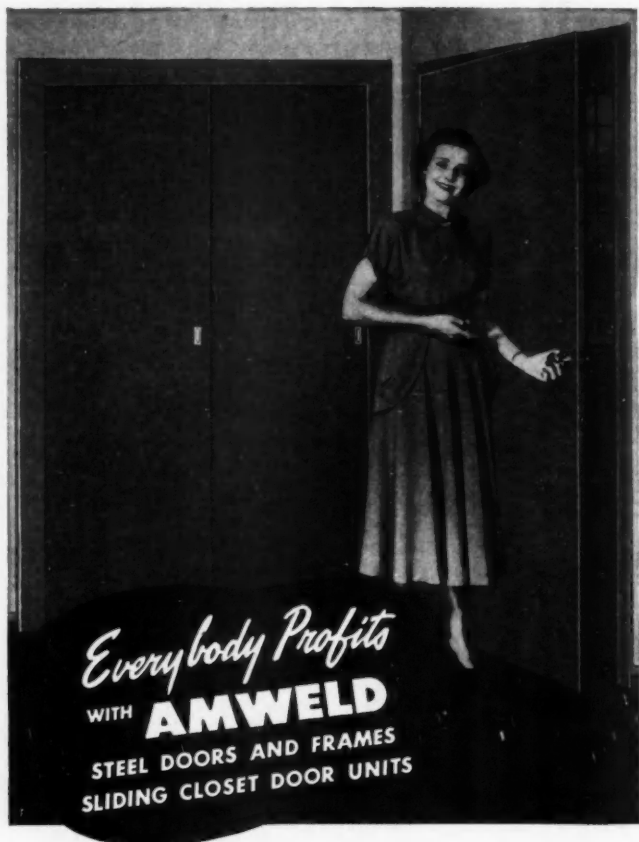
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## No. D-79 Partitions

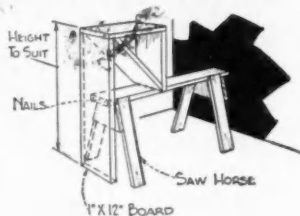
**P**ARTITIONS open above counter line or pass-throughs between kitchen and dining area or living room, depending on the plan layout, are becoming increasingly popular as a major feature in new home construction.

The arrangement illustrated and detailed on opposite page shows an opening extending across the full length of counter with glass panel sliding upward into pocket. In this case the pocket extends into the unfinished attic space above. The ribbed, obscure glass of panel is placed in a stainless steel frame which is balanced by counter weights in attic area on chains and pulleys. One-half-inch wood stops on either side form the pocket in which the panel slides.

Counter top is made of one-inch thick plywood covered with Formica and finished with a metal edge on all exposed faces. Vertical separation between floor and counter, and extending the width of the counter is one-inch thick plywood. The vertical wood member is placed in center of counter top. This allows ample knee room when stools are used in conjunction with counter.

The soffit on kitchen side is furred down to point just above the top of door. Recessed light fixtures are placed flush with soffit, giving ample light to the counter surface.

### Tressel with Step Added



Tressel or sawhorse is given additional usefulness by the removable step which is nailed to the side of horse. Step is built up of 1x10 or 12 inch wide sheathing. The combination is very handy and can be used for nailing ledger boards, braces, plates, nailers for lath, etc. A plank placed across two of these combinations form a scaffold high enough so that only one raise of scaffold brackets is necessary on the side of a one story house.—James T. Strahan, West Collingswood, N. J.

# AMERICAN BUILDER'S BETTER DETAIL PLATE

Detailed by K. Roderick O'Neal A.I.A. for American Builder

## NO. D-79 PARTITION . . .



*Elevation . . .*

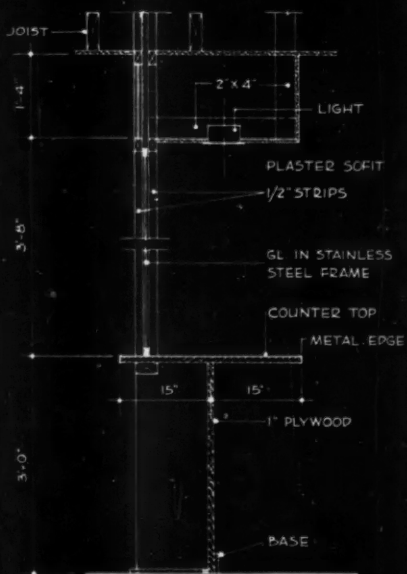
PLYWOOD PANEL



*Plan . . .*



SLIDING DOOR IS BALANCED BY COUNTER WEIGHTS ON CHAINS AND PULLEYS



*Section . . .*



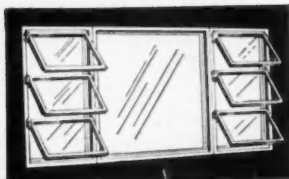
# Gate City *awning* WOOD WINDOWS

## 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.

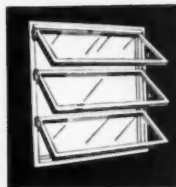
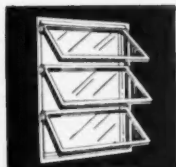


**GATE CITY Wood Awning Windows are delivered as a complete packaged unit, easier to handle; simpler to install.**



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.**



Send 25¢ for SMALL HOMES PLAN BOOK with 40 plans showing Awning Windows. Postpaid.

**MAIL  
COUPON  
NOW**

## 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.

GATE CITY SASH & DOOR CO., Dept. AB-6  
P.O. Box 901, Fort Lauderdale, Florida

Gentlemen: As a Contractor  Dealer  I'd like to know more about GATE CITY Awning WINDOW profit possibilities for 1951.  I enclose 25¢ for Plan Book.

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_

## No.-G-20, Stair Details

**T**HE REMODELING of the interior of this building involved the reconditioning of two floors for the sale of merchandise.

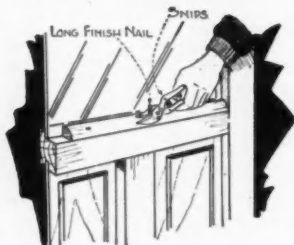
The problem the designer had was to create an attractive and inviting entrance to the second floor sales area. The height from the first to the second floor was 17 feet, which was entirely too high a floor for good retail merchandising, especially when it is only accessible by means of stairs.

To solve this problem it was necessary to camouflage the height and make the climb look as short and as comfortable as possible. To accomplish this, the ceiling level at the stair location was dropped far below the existing ceiling; this gives the impression that the run up to the second floor is short.

To make the run look even shorter, the stair was designed with two platforms, with the top platform hid from the view of the customers on the first floor. The use of unusual wallpaper, curved soffits, displays and the aluminum and glass stair rail all help to accentuate the illusion of a low ceiling and distract the attention from the many risers required to climb to the upper sales area.

Materials include a wallpaper with a pattern of chartreuse circles in a field of gray and stair treads of pre-cast terrazzo made with pink marble chips, with white Portland cement and color pigment added. The ceilings are painted in a soft rose. The first floor stair rail is aluminited aluminum; floor is brick red rubber tile.

### How to Set Glass Bead



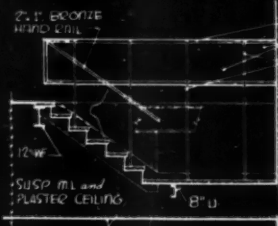
Because of the close proximity of the glass it is difficult to use short nails in securing the bead in transom or door. The use of a longer nail is recommended. Cut off when driven to required depth with pliers. Then drive in the rest of nail.—M. J. Hilland, Lansing, Ill.

AMERICAN BUILDER

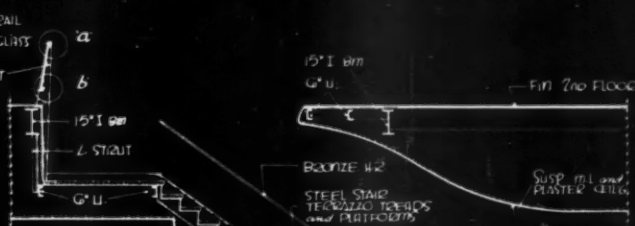
# AMERICAN BUILDER'S STORE FRONT DETAILS

Designed and Detailed by Louis J. Gluskin for American Builder

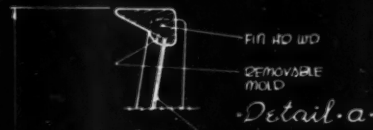
## 1<sup>st</sup> G-20 · STAIR · DETAILS ·



Section - AA -



Section - BB -



Detail - a -



Detail - b -



National Shoe Store

NYC

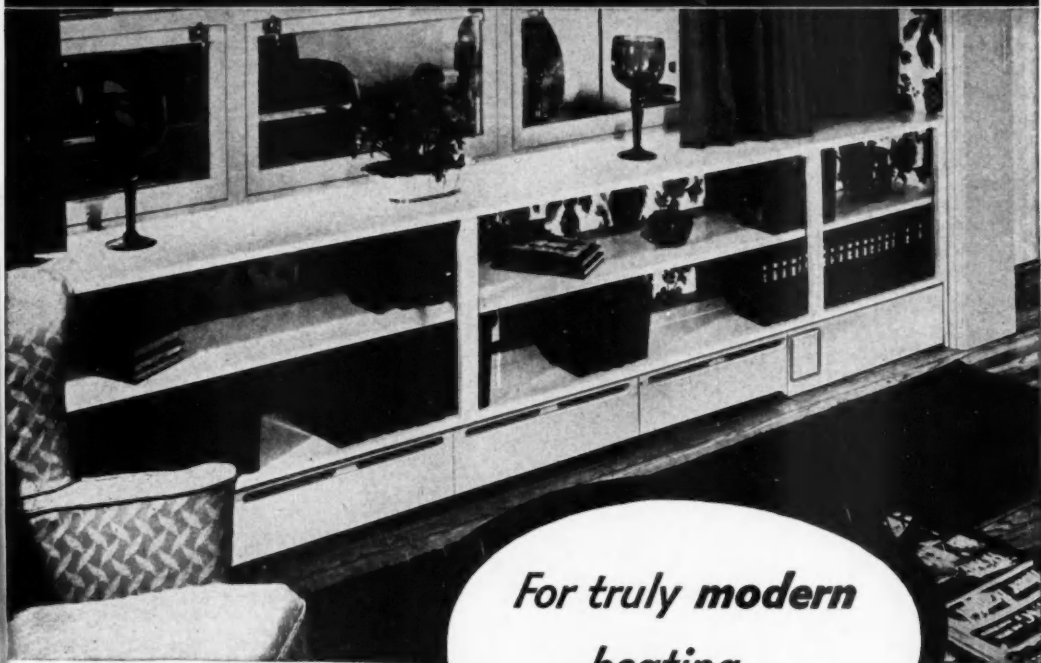


Plan of Stair at 2<sup>nd</sup> Floor

18

# AMERICAN-Standard

First in heating...first in plumbing



**SMARTLY STYLED BASEBOARD RADIANT PANELS** by American-Standard lend themselves perfectly to the modern trend of functional design. The smoothly finished cast iron panels take the place of ordinary wood baseboard and become an integral part of the room construction. In this installation, Type RC Baseboard Radiant Panels by American-Standard not only afford comfortable warmth but actually add to the decorative effect of the built-in book shelves.

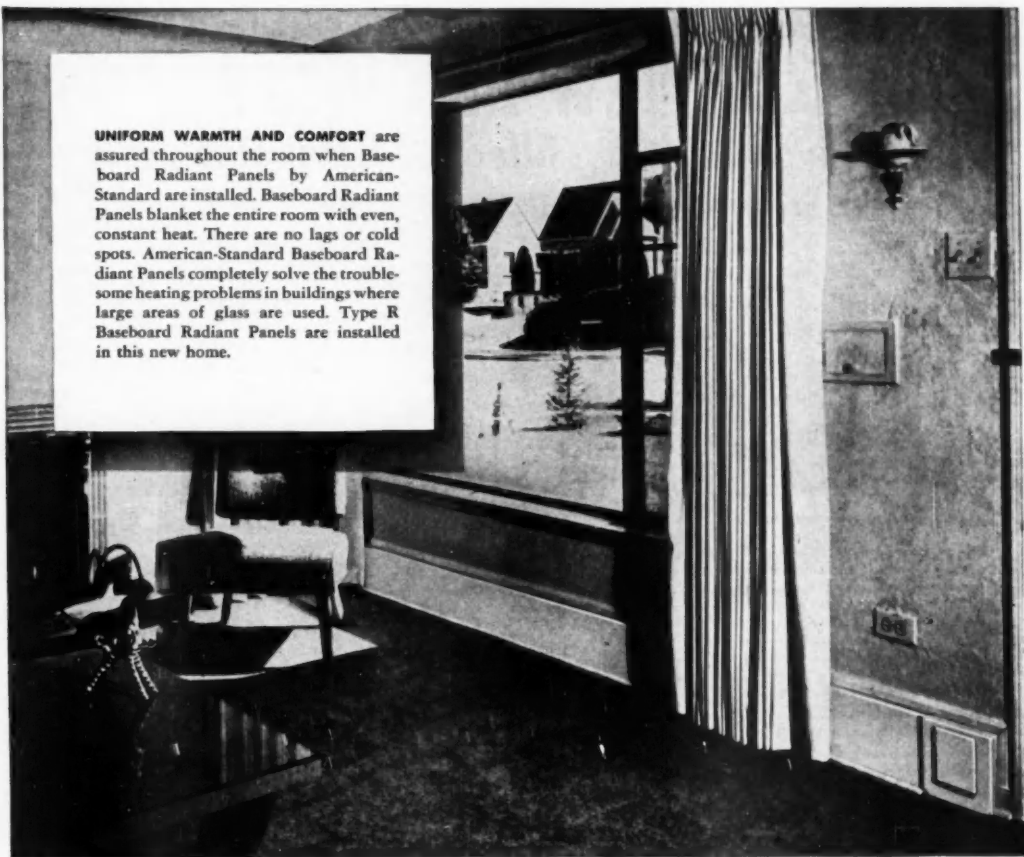
*For truly modern  
heating...*

**SPACE-SAVING,**

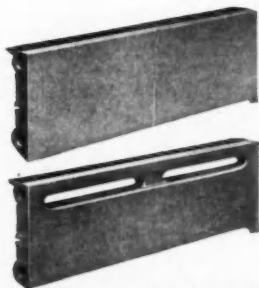
**EXTENDING LESS THAN ONE INCH FROM THE WALL,** these American-Standard Baseboard Radiant Panels are real space savers. Not only is the heating equipment out of the way, but the normally cold space along outside walls is comfortably heated, even in extreme weather. Baseboard Radiant Panels are easy to install in modernization jobs as well as in new construction. Shown here is a modernization job in which Type RC Baseboard Radiant Panels by American-Standard helped to convert an old garage into a beautiful, comfortable living room.



**UNIFORM WARMTH AND COMFORT** are assured throughout the room when Baseboard Radiant Panels by American-Standard are installed. Baseboard Radiant Panels blanket the entire room with even, constant heat. There are no lags or cold spots. American-Standard Baseboard Radiant Panels completely solve the troublesome heating problems in buildings where large areas of glass are used. Type R Baseboard Radiant Panels are installed in this new home.



## CHILL-CHASING BASEBOARD RADIANT PANELS by **AMERICAN-Standard**



**TYPE R PANEL**, offering radiant heat, has a smooth, smartly plain front. Made in one and two-foot sections. External dimensions: 8 inches high, 2 inches thick. (Same sizes as Type RC).

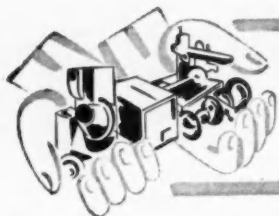
**TYPE RC PANEL** has slotted openings near the top and an array of fins in the back, permitting combined advantages of both radiant and convected heat from the same panel.

**FREE LITERATURE:** If you would like further information about American-Standard Baseboard Radiant Panels, contact the American-Standard sales office serving you and ask for a free copy of Form No. 736, which describes installation practice, or Form No. 773, which illustrates varied applications of Baseboard Radiant Panels in homes.



American Radiator & Standard Sanitary Corp., P. O. Box 1226, Pittsburgh 30, Pa.

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



# NEW PRODUCTS

## Offered by Manufacturers

**MIXER**

**AB65138**



The "Hoe-Boy" 3 cubic foot capacity mixing unit is manufactured by The Construction Machinery Co., Dept. AB, Glenwood & Vinton, Waterloo, Iowa. It is available with either gas or electric power. Features adjustable, triple-blade mixing hoes, safety grating and bag splitter, self-aligning, self-lubricating shaft bearings, heavy-duty electric welded frame, machine-cut sprockets and roller chain drive. The Hoe-Boy is 29-inches wide, with a 36½-inch charging height and 15-inch discharge.

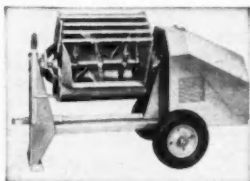
**WALL PLASTER**

**AB65129**

A ready-mixed wall plaster with vermiculite aggregate is available in Kwik-Patch plaster, made by Mathews Plaster Co., Dept. AB, Radart, Va. When water is added, Kwik-Patch is ready to use on any type of plaster base. It may be troweled to a smooth, hard finish after it begins to set, and may be papered or painted as soon as it dries. Used for patching holes and cracks; it can also be used for re-plastering an entire wall or ceiling. Sold in 4, 12, and 36-pound packages. Suggested by manufacturer as useful to building contractors, plumbers, electricians, and heating installation men.

**MORTAR MIXER**

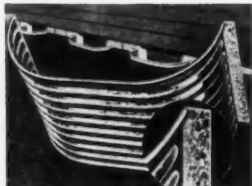
**AB65123**



A ½-bag plaster and mortar mixer known as the "Mix-Miser," is manufactured by The Knickerbocker Company, Dept. AB, Jackson, Mich. Of 3-cubic feet capacity, it has an overall width of 29½ inches. Small unit is designed for use on jobs requiring a limited mix, or on larger construction where it is desirable to keep mixer close to the work. Mixing shaft and drum are suspended on four self-aligning ball-bearing units and replaceable blade and hoe assemblies are bolted to shaft. Weight is 535 pounds without engine.

**AREAWALL**

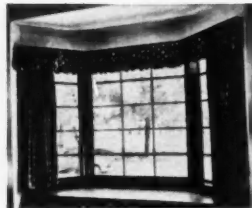
**AB65110**



A corrugated metal wall for basement window wells with new "Hug-Tite" flanges is featured by the Saint Paul Corrugating Co., Dept. AB, South End Wabasha Bridge, St. Paul 1, Minn. Flanges provide a close fit on either side of the basement wall to which the flange is attached. It is available in two types, the Streamlined Straight and the Round. Both types have a wide range of sizes to fit all standard window openings.

**BOY WINDOW**

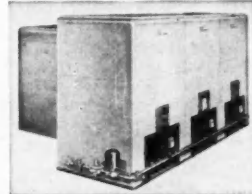
**AB65127**



A bay consisting of Fenestra steel casement windows, made by Detroit Steel Products Co., Dept. AB, 3101 Griffin St., Detroit 11, Mich., with bay installation has 15 panes of glass, separated by slender mullions. Windows at each side open in casement fashion.

**WINTER AIR CONDITIONER**

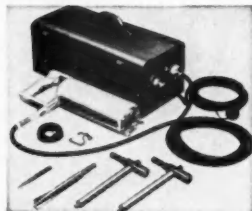
**AB65112**



Addition of five new high input sizes of Type 105 gas-fired winter air conditioner is announced by the L. J. Mueller Furnace Co., Dept. AB 2005 W. Oklahoma Ave., Milwaukee 15, Wis. The sizes are: 300,000, 360,000, 450,000, 540,000 and 675,000 B.T.U. input. Approved by the A.G.A. for use with natural, mixed and manufactured gas, the units employ one burner manifold with individual safety valves and pilots for each burner. Especially designed for heating larger residences, apartments, schools, churches and commercial buildings.

**ELECTRIC HAMMER**

**AB65101**



A new portable electric hammer, consisting of two alternately energized magnetic coils, and which is without gears, cranks and connecting rods, is manufactured by Skilaw, Inc., Dept. AB, 5033 Elston Ave., Chicago 30, Ill. The 1¼-inch hammer has an operating range of ¼-inch to 1½-inch diameter star drills with extreme operating limits of ⅜-inch to 1½-inch diameter star drills. It is 16¼ inches long and weighs 20 pounds. Complete line of accessories is also available.

**HAND DRILL**

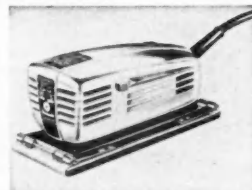
**AB65111**



Designed to bore holes to ½-inch in hardwood or metal is a new hand drill manufactured by Stanley Tools, Dept. AB, New Britain, Conn. Enclosed cast iron speed gear and two steel pinion gears with ball bearings to carry drilling pressure, make for smooth operation. New style protected jaw spring chuck provides jaw action through concealed spring. All trim is nickel plated.

**FINISHING SANDER**

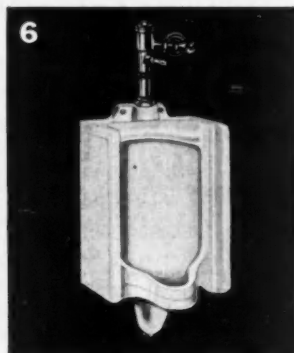
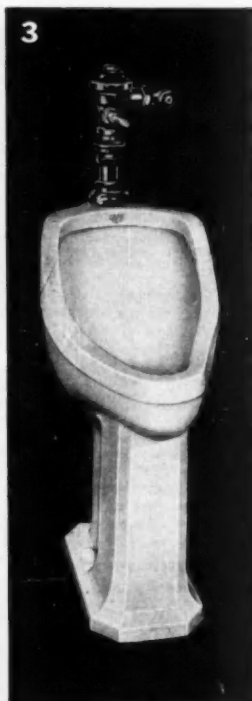
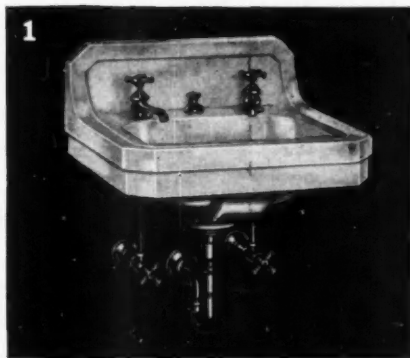
**AB65108**



Motor-driven and with two counter-balanced transmissions is the Model 105 finishing sander made by the Porter-Cable Machine Co., Dept. AB, Syracuse 8, N. Y. Unit is 9-inches long, 3-inches wide and 3¾-inches high, and weighs five pounds. The abrasive pad revolves in a ⅝-inch diameter orbit at 5,000 rpm, providing a finish without scratch or mar regardless of the direction in which the sander is guided.

**New Products continued on page 130**





## They make busy washrooms easier to keep **clean**

You'll get thanks every time, when you point out that the installation of Case quality washroom fixtures helps to hold down washroom maintenance cost.

It's easy to keep these fixtures clean and to *clean around and under them*. They are specially designed and made of finest vitreous china—highly lustrous and unsurpassed in permanence, sanitation, and resistance to acids and discoloration.

An added factor in long service life is the excellent mechanical construction of Case fixtures. Fittings are especially designed for the needs of individual fixtures. Fixtures are available with chair carriers—a wise safeguard in many installations.

Your Case distributor will do his best to serve your needs at all times. For his name, consult your Classified Telephone Directory under "Plumbing Fixtures"—or write W. A. Case & Son Mfg. Co., 33 Main St., Buffalo 3, New York. Founded 1853.

**1 AVON\* #900.** Wall hung vitreous china lavatory with back. Square basin, front overflow, anti-splash rim.

**2 CASE WYNGATE\* #600.** Lavatory. Square basin. Anti-splash rim, heavy wall hanger.

**3 CASCO\* #2335-A.** Vitreous China Siphon jet pedestal urinal with chrome plated flush valve, vacuum breaker.

**4 CASE #1600.** Siphon Jet Flush Valve Closet Combination with elongated bowl.

**5 CASE WALJET\* #2100.** Wall hung Siphon Jet Closet with hard rubber open front seat, concealed check hinge.

**6 CASE CASCO\* #2325-A.** Vitreous China Wall Hung Washout Urinal with shields, integral flush spreader and spud.

\*®

Case

*Fine  
Vitreous China*

## NEW PRODUCTS

(Continued from page 128)

### SAW PROTRACTOR

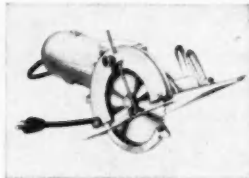
AB65136



A practical saw protractor for use as a guide in power sawing is featured by The Black & Decker Mfg. Co., Dept. AB, Towson 4, Md. Weighing 1½ pounds, and consisting of a straight edge, the segment is calibrated in units of one degree, and it has a movable holding arm. In operation, the side of the shoe of the power saw is lined up with protractor's straight edge and the saw is advanced along this edge. It has application in any carpentry work involving angles.

### PORTABLE POWER TOOL

AB65104



"Whirl-Saw" Model No. 3, designed to make clean, straight cuts, both rip and cross-cut, is manufactured by the Forsberg Mfg. Co. Dept. AB, Bridgeport, Conn. Cuts angles up to 45 degrees. Depth of cut is adjustable up to 1½ inches. Weighing only six pounds, it can be operated with one hand.

### MOISTURE MEASURING METER

AB65130



A meter for measuring the moisture content of lumber, wood, plaster, and many other materials of varying textures and consistencies is featured by the Tagliabue Instruments Div., Weston Electrical Instrument Corp., Dept. AB, 614 Frelinghuysen Ave., Newark 5, N. J. The portable instrument has an over-all range of from 2,000 ohms to 20,000 meg-ohms. Available in two forms; one with a scale calibrated for use with wood products, and the other with linear graduations for use with material for which no calibrations have been determined. Both are available as either battery operated or are furnished to operate on 115 volts, 60 cycles A.C.

### RUBBER BASEBOARD

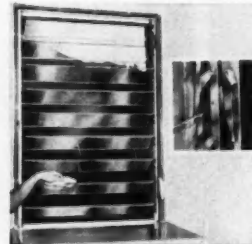
AB65132



An all-purpose rubber baseboard, called Sani-Base, is featured by Cass Products Co., Dept. AB, 6127 N. Cicero Ave., Chicago 30, Ill., to provide replacement for old and broken quarter-round board. Made of pure, live rubber, in strip form, ¾ x ¾-inch ore, it comes in sections containing 20-foot lengths, together with a can of waterproof Sani-Cement for easy attaching, brush for applying, and simple instructions. Available in black, grey, red, blue, green or yellow colors. Needs no painting or upkeep. May be removed without harming for reuse in another location. Designed for use around kitchen cabinets, in the bathroom, den, laundry, basement, and home workshop.

### LOUVERED WINDOW

AB65117



A "Louvre-Lite" jalousie window which can easily be installed is featured by the Jeffrey Howard Co., Dept. AB, Los Angeles, Calif. Units consist of two series of louvre-glass clips on bars which are attached at each side or top and bottom of the window frame, into which ⅜-inch crystal glass is inserted. They are rain-proof, draft eliminating, and easy to clean. They have direct, one-handle opener.

### ASBESTOS-CEMENT BOARD

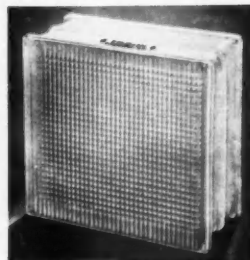
AB65107



A lightweight building sheet, "Flexboard," manufactured by Johns-Manville Corp., Dept. AB, 22 E. 40th St., New York 16, N. Y., has a smooth, hard surface which needs no preservative, yet may be painted if desired. It can be curved to fit rounded as well as straight surfaces. Plain sheets are 4 feet by 8 feet and ⅜ or ⅝-inch thick. Scored sheets are 4 feet by 4 feet by ⅜-inch thick.

### GLASS BLOCKS

AB65121



A new development in the PC "55" line of functional glass block is the "finger feel" ridges located on the top inside edge of the block. Color-keyed reference guides consisting of the words "Top-in" and the name of the specific glass block with arrows is included. The color and name designation prevents the mixing of various types of block in a panel, and the arrows insure against block being placed upside down or with the faces reversed. Manufacturer is Pittsburgh Corning Corp., Dept. AB, 307 Fourth Ave., Pittsburgh, Pa.

New Products continued on page 142

### INSERT NUMBERS AND MAIL COUPON FOR INFORMATION

American Builder, 79 W. Monroe Street, Chicago 3, Illinois

Name .....

Address .....

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

No. .... No. .... No. .... No. ....

No. .... No. .... No. .... No. ....

No. .... No. .... No. .... No. ....

No. .... No. .... No. .... No. ....

No. .... No. .... No. .... No. ....

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

INSIDE TOP  
DETAIL



SLOT (A) ENGAGES SCREWS IN TOP OF  
WINDOW FRAME BY PUSHING TAB ON  
FITTING (B) WHICH SLIDES IN SLOT (C)



# Builders say: TENSION-tite<sup>®</sup> window screens *pay off*

\* Trade Mark

The screen preferred  
by home-buyers  
costs less installed

All aluminum...rust-proof

Non-staining...attractive

No painting...ever!

No loose hardware

Simplifies window washing

Exclusive GUIDE BAR  
speeds installation

Sizes for all double-hung  
wood windows



Also available with  
Kaiser SHADE screening

TENSION-tite shade screens keep out the  
direct rays of the sun as well as insects.  
Use these screens on south and west win-  
dows to make the hottest rooms the coolest.

Write for free literature and name of nearest dealer



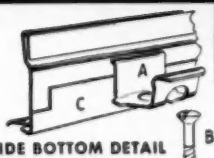
## RUDIGER - LANG CO.

Factories in Berkeley, Calif., and Toccoa, Ga.

2701 EIGHTH STREET, BERKELEY 10, CALIFORNIA

P. O. BOX 408, TOCCOA, GEORGIA

INSIDE BOTTOM DETAIL



CATCH (A) ENGAGES SCREW (B) ON SILL. THIS CATCH ALSO HOLDS THE  
ADJUSTMENT BAR (C) WHICH IS PUSHED DOWN ON SILL FOR INSECT-  
TIGHT FIT. BAR (C) ALSO SERVES AS A TEMPLATE OR GUIDE, LOCATING  
THE CORRECT POSITION OF THE SCREWS WHEN INSTALLING SCREEN.

JUNE, 1951

131

**Now SIMPLIFIED ..  
STANDARDIZED**



**BENNETT**

## *Warm-Aire* FIREPLACE

Here's the fireplace your trade has been waiting for. It's *simplified* for prices that mean volume ... *standardized* for quick, economical construction. It's the contractor's favorite—all Bennett's new sizes lay up with standard brick—*without cutting!*

It's a complete form, including a scientifically proportioned firebox and throat, downdraft shelf and heating chambers. Other features include:

- Extra large funneling chamber
- Leak-sealing flanges
- Longer sidewall baffles
- Simple, efficient damper—built-in
- Interchangeable, rotary or poker controls
- Large backwall heating chamber
- Better view of fire
- More radiant heat

Sizes are 27", 31", 35", 39", 43" and 49".

Write for complete information on this big-volume, good margin line. The new Bennett Fireplace offers you the best profit opportunity ever. Address your inquiry to us at 651 Market Street.

*By the makers of Flexscreen*

**BENNETT - IRELAND INC.**

Manufactured in U.S.A.  
NORWICH, NEW YORK

## Catalogs and HOW-TO-DO-IT INFORMATION

**940—GYPSUM LATH PRODUCTS**—A 36-page gypsum lath and plaster catalog has been issued by Certain-teed Products Corp., Ardmore, Pa. The book describes the various gypsum lath products as well as base and finish coat plasters, listing their industrial applications.

**941—COPPER FLASHING**—The new one-piece, thru-wall copper flashing and copper base flashing expansion joint, made by Chase Brass & Copper Co., Waterbury 20, Conn., are described in a 4-page folder. Complete specifications and features are given.

**942—TUNNEL MIXERS**—Bulletin No. R-1700-B5 issued by Worthington Pump and Machinery Corp., Harrison, N. J., describes in detail Worthington's 35s Dual Drum Tunnel Mixers for concrete patching operations. Illustrations and specifications are also given.

**943—TREATED LUMBER**—A 4-page colored folder featured by Osmose Wood Preserving Co. of America, 1437 Bailey Ave., Buffalo, N. Y. gives detailed information on Osmose Treated Lumber for preventing wood rot and termite destruction.

**944—WALL AND CEILING PANELS**—A "Home Folder" issued by Marsh Wall Products, Inc., Dover, Ohio, describes Marlite's plastic-finished wall and ceiling panels for new or remodeled bathrooms, kitchens, recreation rooms and other residential interiors. Full color illustrations of Marlite patterns, together with information on the complete line of color and pattern combinations, are featured.

**945—HEATING PRODUCTS**—A 20-page condensed catalog of heating products for homes, stores, institutions and industrial plants has been published by The National Radiator Co., Johnstown, Pa. It contains descriptive information on ratings, capacities, inputs and outputs, roughing-in dimensions and domestic hot water heater recoveries on iron or steel boilers, gas boilers, baseboard heating units, water heaters and down-blow unit heaters.

**946—AUTOMATIC WASHER**—A 4-page folder describing the new A-B-C-O-Matic washer is offered by the Altorfer Bros. Co., Peoria, Ill. Complete illustrations and specifications are given for the automatic home washing unit.

**947—FURNACE PIPE FITTINGS**—New 44-page catalog No. 404, entitled "Milcor Standardized Furnace Pipe, Gravity and Forced Air Fittings, Stove Pipe and Elbows," is available from the Inland Steel Products Co., 4157 W. Burnham, Milwaukee 1, Wis. Booklet contains product specifications, applications, prices, shipping and packaging data on a number of product lines.

**948—STRADDLE TRUCKS**—A new catalog describing Hyster Straddle trucks for mills, docks, warehouses, and industrial plants is offered by Hyster Co., 2902 N. E. Clackamas, Portland 8, Ore. Illustrations and specifications are given.

**949—"A HANDBOOK FOR BUILDERS"**—is the title of a 36-page catalog issued by the Arkansas Soft Pine Bureau, Boyle Building, Little Rock, Ark. Detailed information is given on grading and grade marks as well as suggested uses of Arkansas Soft Pine in many building operations.

(Continued on page 134)

AMERICAN BUILDER

# HOMASOTE presents the **NOVA-I.P.C**

## METHOD OF PROTECTING BUILDINGS FROM THE WEATHER

For all types of MASONRY, STUCCO and PLASTER

The meaning of "I.P.C." is *integrally protected concrete*—when you use Nova-I.P.C Admix. If directions are carefully followed, you will be *safe* whether you are using mass concrete—above or below grade; cement plaster coats—interior or exterior; stucco; mortar between brick, stone or blocks; slush coats on cinder blocks or other porous surfaces; cement grout; gypsum plaster. This unique product speeds up the work and lowers the cost, produces harder and denser concrete, reduces shrinkage, aids in curing mass concrete.

"I.P.C." means *integrally protected coating*—when you use Nova-I.P.C Masonry Paint. The protection is inherent in the coating, because the base of the paint is Nova-I.P.C Admix . . . Use this paint for any porous masonry surface—specifically for brick, stucco, cinder block, concrete block, concrete or stone. Properly applied, your building is safe from weather and may be cleaned with a garden hose. Unlike other masonry paints, Nova-I.P.C may be applied when there is fog and dampness in the air. Six pastel shades and snow white are available.

Nova-I.P.C Transparent Filler tightens up porous mortar joints and masonry by penetrating to a depth of 1½" or more—builds up a seal *within* the surface and gives complete protection from the weather. Contains no petroleum, wax or paraffin to cause discoloration. Protects large buildings from getting dirty.

**PLASTER**—Use Nova-I.P.C Admix in both the brown and white coats. Save ¼ of the amount of gauging plaster and follow with white coat the next day. White coat will not blister, takes on a beautiful sheen.

**SLABS ON GRADE**—Use Nova-I.P.C Admix in slab and eliminate membrane and washed gravel. Only bank run sand and gravel needed. Slab can be finished faster and will not dust—with a big saving.

Write today for full details of specifications, applications and list of famous installations. *Kindly include the name of your lumber dealer.* All three products are long established and fully proved.

Another group of Novasco products

# NOVA SALES

Co. TRENTON 3, N. J.



A wholly owned subsidiary of the Homasote Company, manufacturers of the oldest and strongest insulating-building board, Wood-textured and Striated panels.



1818  
1951

# HOPE'S

*The Name  
Guarantees*



*Residence of Paul B. Sullivan, Jamestown, N. Y. Axel H. Johnson, Contractor*

**ONLY**  
**\$283<sup>55</sup>**

*for HOPE'S STEEL  
CASEMENTS  
in this home*

Their pleasing effect with wood-frame construction adds much to the sales appeal of a small house, and their **KNOWN QUALITY** makes the buyer confident of its value. Hope's Windows will help you sell homes for better prices. Write for Bulletin No. 102K.

**HOPE'S WINDOWS, INC., Jamestown, N. Y.**

THE FINEST BUILDINGS THROUGHOUT THE WORLD ARE FITTED WITH HOPE'S WINDOWS

## Catalogs

*(Continued from page 132)*

**950—FARM INSULATION**—A three-color, illustrated booklet giving complete information on insulating farm houses and farm buildings, has been issued by the Zonolite Co., 135 S. La Salle St., Chicago 3, Ill. It describes the application of Zonolite vermiculite products in poultry houses, barns, hog houses, milk houses, and coolers, as an insulating material.

**951—EXCAVATING EQUIPMENT**—A catalog describing the Hough Payloader has been issued by the Frank G. Hough Co., Libertyville, Ill. Catalog describes excavating, earth moving, bulk material handling and road cleaning operations of firm's equipment.

**952—"WINDOW IDEAS"**—is the title of a 32-page picture book which shows different window arrangements in actual homes. The booklet is designed to help prospective homeowners and remodelers in selection of windows for their homes, and is issued by Andersen Corp., Bayport, Minn.

**953—PLYWOOD PANELS**—A new illustrated manual devoted to 3/4-inch Architectural Grade Weldwood Plywood, has been published for architects by United States Plywood Corp., 55 W. 44th St., New York 18, N. Y. It provides valuable reference tables and added information on the types, characteristics and uses of architectural grades of plywood.

**954—PENCILS**—The 1951 catalog published by the Eberhard Faber Pencil Co., 37 Greenpoint Ave., Brooklyn 22, N. Y. is now available. The new Microtomic Van Dyke drawing pencil, along with mechanical holders and refill leads are illustrated and described.

**955—COLD HEADED FASTENERS**—Catalog No. 60, a 34-page illustrated catalog explains the savings in operations and material costs of cold-headed fasteners. It describes the vast variety of nails, rivets, screws and other specialties available through cold-heading method. By John Hassall, Inc., Brooklyn 22, N. Y.

**956—"SOLVING ROOF PROBLEMS"**—An attractive 32-page brochure issued by The Tremco Mfg. Co., 8701 Kinsman Rd., Cleveland, Ohio, discusses the matter of roof maintenance. Illustrated by photographs and diagrams, the brochure treats such subjects as the various types of roofs, how they are built, what factors enter into their deterioration, and how roof troubles can be diagnosed and treated.

### SERVICE COUPON—CLIP and MAIL to CHICAGO

Readers Service Department  
American Builder

JUNE 1951

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 .....

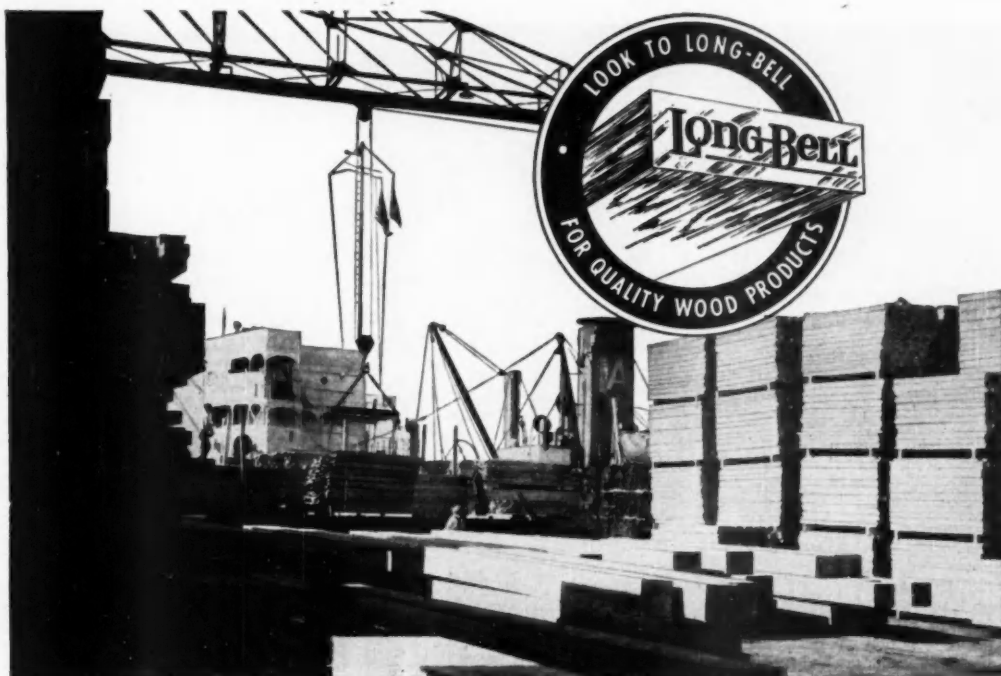
Street .....

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

OCCUPATION\* .....

\*Please note that occupation must be stated if full service is given.

AMERICAN BUILDER



With the tempo of preparing the nation's defense rapidly increasing, America looks to the lumber industry to supply building material for military installations, housing, factories and repairs. Long-Bell knows that its first duty is to provide its share of that demand promptly and adequately.

Long-Bell, together with the lumber industry, has been placed in that position a number of times during the past 75 years, and has met its part of the challenge throughout the

war years making every effort possible to produce and supply material wherever it was most needed. There is no doubt that Government needs will be an important factor in Long-Bell's lumber production this year. Those needs must come first.

The Long-Bell Lumber Company will do everything in its power to meet in volume and delivery its share of the requirements of the Government and essential construction in supplying quality lumber and lumber products.

#### 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 . . . Unpainted 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.

# The Long-Bell Lumber Company

Established 1875

## DIVISIONAL SALES OFFICES

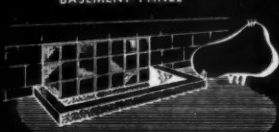
EASTERN DIVISION • Kansas City, Mo.

WESTERN DIVISION • Longview, Wash.

AS BASEMENT AND CLOSET PANELS—two of many practical applications in homes—decorative PC Glass Blocks let in abundant daylight, protect privacy. Where panels have extreme sun exposure, or where close work is done, PC Functional Glass Blocks are recommended for their softly diffused, directed daylighting.

*The new Clean-Easy face finish on all PC Functional Glass Blocks cuts your on-the-job cleaning time in half!*

BASEMENT PANEL



CLOSET PANEL



Real opportunities  
for builders  
with small,  
time-saving panels of  
PC GLASS BLOCKS

There are scores of jobs in your district—in new homes as well as in remodeling work—where panels of PC Glass Blocks can be applied to your profit. This is especially so with the new, money-saving method of installing small panels of these glass blocks (up to an area of 25 sq. ft.). Now, you can do this work with a sizable saving in time, labor and material costs. You don't need wall ties, wall anchors or expansion strips. Just regular bricklaying tools, mortar, asphalt emulsion and the PC Glass Blocks.

Homeowners want the many benefits offered by PC Glass Blocks. For they admit plenty of daylight into rooms and at

the same time assure privacy. They reduce heating and air-conditioning costs, because they have more than twice the insulating value of ordinary, single-glazed windows. And they seldom need repairs. There's no periodic painting and puttying; nothing to rot, decay, rust or corrode; no need for storm sash.

Why not take advantage of this exceptional opportunity for plus-business, and give your customers the plus-benefits of PC Glass Blocks? Right now, though, fill in and return the coupon for our free booklet. It gives you a full description of PC Glass Blocks, with easy-to-follow instructions on how to install them.

SEND  
FOR THIS  
NEW FREE  
FOLDER  
NOW!



Pittsburgh Corning Corporation  
Dept. B-61, 307 Fourth Avenue  
Pittsburgh 22, Pa.

Without obligation on my part, please send me your FREE folder, "Beauty Spots for your Home."

Name.....

Address.....

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

PITTSBURGH



GLASS BLOCKS

*The mark of a modern building*

Distributed by Pittsburgh Plate Glass Company; by W. P. Fuller & Co. on the Pacific Coast, and by Hobbs Glass Ltd. in Canada.

## Home Demonstration ...

(Continued from page 95)

The lumber dealer home show drew an attendance of over 1000 persons per day. The remarkable response was due in part to an intensive advertising campaign conducted on radio and in newspapers, beginning a week prior to the event. On Sunday preceding the show a full-page newspaper ad was carried. Each of the cooperating concerns was given a part of the advertising space.

The lumber firm management considers the home show such a success that plans to repeat it each year have been made. This firm has a large retail sales room with displays of both small and heavy appliances, plumbing and electrical goods, in addition to its regular builder items. Results of the show were judged by the increase in volume of sales on newer lines displayed and on certain items that had not done particularly well in the past. For example, a certain type of wood preservative enjoyed greatly increased sales after its merits had been demonstrated to the public at the show.

Plans for next year's show call for questionnaires to be sent to the exhibitors asking them to specify space requirements. Total space for the show will be increased by using the basement of the building as well as the main floor. The interest displayed at the last show indicates there will be no difficulty in getting people downstairs for the exhibits.

Success of the show is attributed to its educational, informative character, together with its adequate publicity.

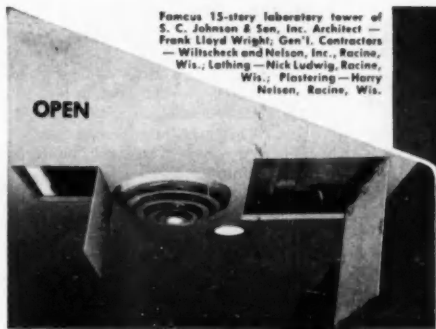
Columbia Valley Lumber Co. is engaged in both wholesale and retail business in lumber and millwork, with its own mills and timber tracts. A sash and door plant is also operated by the company. It has several retail yards including the main yard at Bellingham, and the company also has a department for handling farm equipment.

Firms whose products were exhibited at the home show:

Columbia Valley Sash & Door Co.  
Domestic Wall Furnace Co.  
Elliott Bay Lumber Co.  
General Electric Supply Co.  
General Paint Co.  
Heatform Circulating Fireplace  
Johns-Manville Corp.  
Kaiser Aluminum Co.  
Masonite Corp.  
Monsanto Chemical Co.  
U. S. Gypsum Co.  
U. S. Plywood Co.  
Washington Hardware Co.  
Wood Conversion Co.  
Wood Life Preserving  
Zonolite Co.



Famous 15-story laboratory tower of  
S. C. Johnson & Son, Inc. Architect —  
Frank Lloyd Wright; Gen'l. Contractors  
— Willschek and Nelson, Inc., Racine,  
Wis.; Lathing — Nick Ludwig, Racine,  
Wis.; Plastering — Harry  
Nelson, Racine, Wis.



OPEN

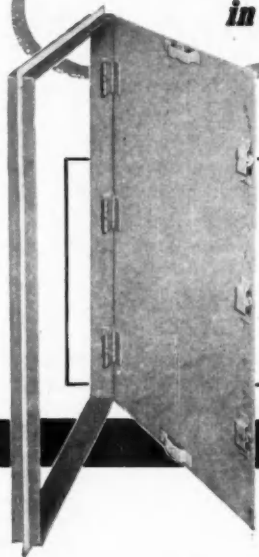
Milcor Access Doors in the garage ceiling give instant access to key points in the ventilating system. In addition to Access Doors, other Milcor Metal Lath products were also used.



CLOSED



## **MILCOR<sup>®</sup> Access Doors** *combine utility with beauty* **in famous S. C. Johnson & Son, Inc. tower**



### **EASY TO INSTALL!**

For plastered or non-plastered walls; with or without expanded wings; standard sizes 8" x 8" to 24" x 36". Number of hinges and cam locks is determined by size of door.

WHEN it came to selecting the access doors of this ultra-modern structure, Milcor Access Doors were specified exclusively because they conformed in every respect with the design requirements.

They are quickly and easily installed, flush to the surface, almost invisible — yet there when you need them for instant access to key points in piping and wiring systems. Finishing is simple — paint or paper right over them.

For complete details on Milcor Steel Access Doors, and other Milcor Metal Lath products see the Milcor Manual or write us.

## **INLAND STEEL PRODUCTS COMPANY**

Formerly Milcor Steel Company

4025 WEST BURNHAM STREET • MILWAUKEE 1, WISCONSIN  
BALTIMORE 24, MD. — 5300 Pulaski Highway • BUFFALO 11, N. Y. — 64 Rapin St. • CHICAGO 9, ILL. — 4301 S. Western Avenue Blvd. • CINCINNATI 23, OHIO — 3240 Spring Grove Ave. • CLEVELAND 14, OHIO — 1341 E. 38th St. • DETROIT 2, MICH. — 690 Amsterdam Ave. • KANSAS CITY 8, MO. — South West Blvd. and State Line • LOS ANGELES 58, CALIF. — 4807 E. 49th St. • NEW YORK 17, N. Y. — 230 Park Ave. • ST. LOUIS 10, MO. — 4215 Clayton Ave.

# 3-Speed Milwaukee 1/2" 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 1/2" 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 1/2" 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



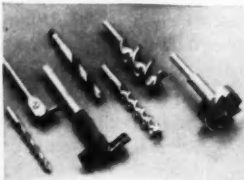
Other bits available also — See assortment at left. We can supply you with any size wood-boring bits up to 3". Write us.

Complete S-412 Tri-Speed Kit Contains

- 1 — S-412 1/2" HOLE-SHOOTER, Jacobs geared chuck.
- 2 — 2-speed "Right-Angle Drive" attachment.
- 3 — 3 special bits — 3/4", 1 1/8", 2 1/8".
- 4 — Special wrench.

\*Pat. Pending

Complete S-412 KIT... \$87.00



3 flats specially machined on shanks of these bits to fit Jacobs 3-jaw chuck.

Call your distributor today, or write us and give his name.

**MILWAUKEE ELECTRIC TOOL CORP.**

Makers of portable electric drills, saws, hammers, grinders, sanders, and accessories.

5356 W. STATE STREET • MILWAUKEE 8, WIS.

## Builder Designed

(Continued from page 118)

showing through as in some furniture. Finish was achieved by applying a coat of shellac, followed by a coat of black lacquer, then a coat of titanium white—cornstarch mixture rubbed into the grain and wiped off



SHARP ANGLES distinguish this carport with alcohol. Two final coats of spar varnish were used for protection.

Interior features include glass block between kitchen and dining area; fireplace of the same pumice tile used on the outside, with combed plywood on both sides; and a combed plywood den.

The carport has storage space both at the rear and in the sidewall. A panel of fluted glass along the slab entrance harmonizes well with the large picture window.

Lindberg recently bought an old school bus and converted it into a



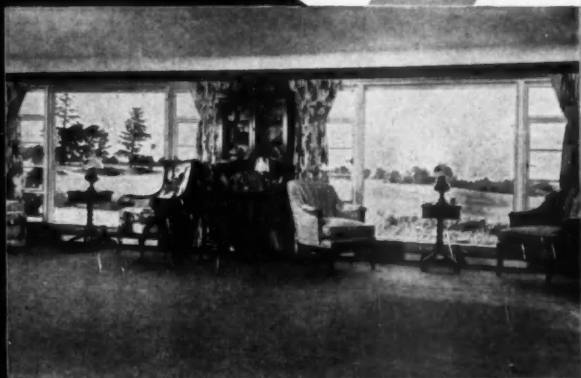
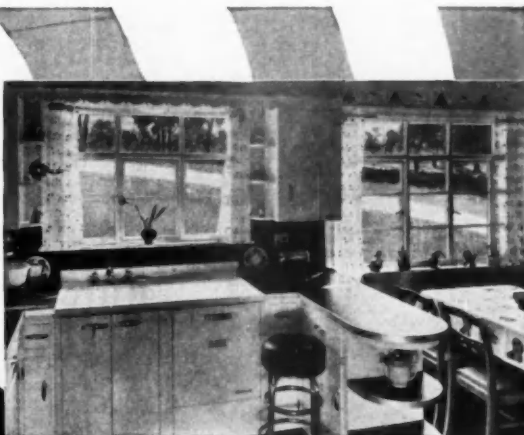
LINDBERG'S "workshop on wheels"

mobile cabinet shop which can be locked when not in use. In it he carries a power saw; portable forms of 2-inch lumber which he uses over and over, soaking them with oil after each use; and racks for moldings and plywood. He makes his own doors and windows.

## Home Production Must Keep Up with Weddings According to NAHB

There were 1,585,000 couples married in 1949 in this country and 3,729,000 babies were born, the National Association of Home Builders reports. The group cited this fact as a major reason why full housing production, consistent with the war effort, must be allowed to go ahead.

# BEE GEE windows



## ...modern wood windows

There's a famous BEE GEE Window to meet every need, satisfy every fancy, fit every budget—of every customer for every type of home. Beauty, design, style, practicability, price—BEE GEE Modern Wood Windows have them all—in over 42 different styles and sizes.

Famous BEE GEE features: Clean the OUTSIDE from the INSIDE—the BEE GEE Modern Wood

Window is a complete unit consisting of frame, pre-fit glazed sash with glass bedded in putty—Copper screen and all hardware installed at the factory. A complete unit ready to set in the wall.

New, extra-added feature:—New automatic modern storm windows.

## BROWN-GRAVES CO.

Akron 1, Ohio

Write now! Get the complete, beautifully illustrated BEE GEE Window Catalog.

BROWN-GRAVES CO., Dept. AB-102  
Akron 1, Ohio

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

make



your  
first  
choice



\* toggle bolts

Constant efforts to satisfy the numerous Fastening and Hanging tasks have resulted in Paine's "know how." Do as others have done—make Paine *your* first choice.

Paine Spring Wing Toggle Bolts provide a secure and permanent fastening in hollow walls and ceilings, where it is impossible to reach the other side. Reduce installation time and accent the quality of your work with Paine Spring Wing Toggle Bolts.

THE PAINE COMPANY 2959 Carroll Ave., Chicago 12, Ill.

the best craftsmen always take

**PAINE'S**

Spring Wing Toggle Bolts  
Expansion Anchors  
"Sudden Depth" Drills  
Wood Screw Anchors

Conduit Clamps  
Pipe Hooks and Straps  
Hanger Iron, perforated  
Expansion Shells

Star Drills  
Malleable Shields  
Special Hanging and  
Fastening Devices

**Saberson ...**

(Continued from page 120)

couldn't make up his mind what he wanted and wouldn't trust anyone else. Now he is worrying for fear he picked the wrong things and I'm betting he did."

**Easy-is-that-easy-does:** "We were driving by and liked the looks of the house. Bought it on the spot. It couldn't suit us better if we had spent years on it."

**Domestic help:** "Forget'em! Electricity solved that problem. It's fun to do your own work. Never did like taking orders from disgruntled help and never felt comfortable when they were around. Electrical appliances gave me glorious freedom."

**Long or short haul homes:** "This idea of one home in a lifetime was OK before automobiles came into the picture. My idea is to sell out when you feel like it—move nearer your friends, or better schools, or the church you like, or your favorite golf course."

**Leave it to the experts:** "I'll be hanged if I'm going to spend my summer looking for a place to build when I can meander down a curved road in a landscaped subdivision and come face-to-face with a cozier, cuter little home than I would have been able to think up in a lifetime. I'd no more try to figure out my own house than I would try to design an automobile and have it made at a local machine shop. I'm for leaving homes to the people who know how to plan and build them. That's the way I do with everything else. Why not homes?"

And so there you are! We toss this little nosegay of ideas plucked from the garden of public opinion, onto the overcrowded stage where many men (and women) are of many minds concerning the places in which they dwell.

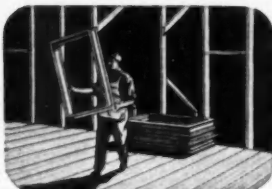
**Change of Address**

Announcement has been made of the change of address of Hayden Crocker Company to P.O. Box 405, Great Neck, Long Island, N. Y., Hayden Crocker Company is sales representative for Kewanee Mfg. Co., steel building products; Midland Industries, Inc., shackles and wire rope clips; Turnbuckles, Inc., bright wire goods; Turner & Seymour Mfg. Co., spiral sash balances; and Woodall Industries, Inc., plastic laminated Presdwood panels.

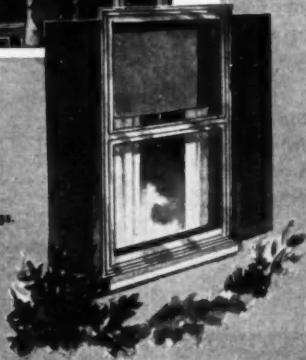
**Your Best Community Promotion  
NATIONAL HOME WEEK  
September 9 through 16**

AMERICAN BUILDER

Completely Installed  
in  
5 minutes!



Complete rainproof  
ventilation control.  
Automatic positive  
locking.  
Pay for themselves  
through fuel savings.  
Sturdy tubular  
construction.



Compare it  
from any angle!

✓ LOW COST  
✓ QUALITY  
✓ CONSTRUCTION  
✓ INSTALLATION

# RUSCO



HOT-DIPPED 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

Imagine it! A complete window unit—  
ready to install—with no on-the-job  
painting, glazing, refitting,  
or hardware to attach... no sash cords,  
weights or balances. Light in weight  
because of its tubular construction,  
the Rusco Prime Window can be  
installed in far less time than ordinary  
window units. Low initial cost,  
inexpensive installation, savings on  
maintenance—all add up to the most  
remarkable window buy on the market.  
Call your local Rusco Prime Window  
distributor or mail coupon for full information.



Panels easily  
removed from inside

### The F. C. RUSSELL Co.

CLEVELAND 1, OHIO

Manufacturers of famous Russco Armo-metal  
Combination Windows, Combination Doors,  
Porch Enclosures, Awnings and Jalousies.



**THE F. C. RUSSELL COMPANY**

Department 7, AB-61, Cleveland 1, Ohio

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

Name ..... Title .....

Company .....

Address .....

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



**DANCE  
FLOOR Installed  
BETWEEN  
MEALS!**

**PARKAY Haddon Hall  
Pattern Hardwood Floor  
Completed in 2½ Hours**

The place—Hunt Room at The Cavalier, Virginia Beach, Va. The problem—install a 14' x 14' hardwood dance floor without interruption to regular dining room service. The solution—Parkay Haddon Hall Pattern (basketweave) flooring.

Three workmen began operations immediately following the breakfast period. First, the carpet area was removed. Then the 12" x 12" units of Parkay Haddon Hall oak flooring were applied with special adhesive over the terrazzo floor. Two and one-half hours later the beautiful patterned hardwood floor was ready for dancing feet—and customers were enjoying luncheon in an immaculate dining room.

**Parkay Features That Speed Work — Save You Money**

Every feature of Parkay Haddon Hall Pattern (basketweave) flooring makes for fast, clean installation. It comes to the job in easily handled 12" x 12" beveled-edged units composed of 2" x 4" and 2" x 2" solid blocks 1" thick. The beautiful, lasting factory-finish eliminates messy, time-consuming, on-the-job finishing. No sawing or nailing. Parkay is applied with Special Adhesive over any sound subsurface—wood, cement, terrazzo.

For beautiful, low cost, lifetime hardwood flooring that can be installed in hours instead of days, investigate Parkay Haddon Hall. Light and medium finish Oak, Walnut, Avodire, Mahogany or Teak. Write for descriptive literature. Parkay, Inc., 5002 Crittenden Drive, Louisville 9, Ky.



**PARKAY**

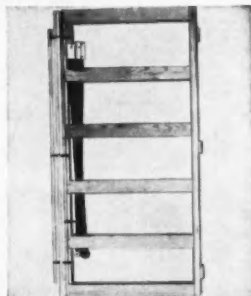
READY-FINISHED HARDWOOD  
FOR FLOORS AND WALLS

**NEW PRODUCTS**

(Continued from page 130)

**DOOR HARDWARE**

**AB65114**



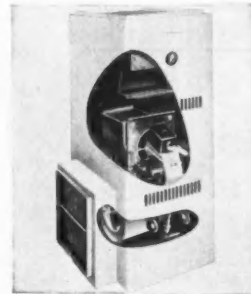
The Darflo Floating Door, incorporating a patented cantilever principle, and called the new Darflo Ready-Unit is a complete wall section and door hanger. All essential hardware, including parts for hanging the door and hardwood sole plates, is supplied, fabricated to the assembled wall section, and ready for quick insertion into the rough wall opening. The unit is adaptable to 1¾ or 1½-inch doors. Hardware is removable without disturbing the wall or door trim, with every movable piece accessible for easy adjustment. Made by Darflo Mfg. Corp. Dept. AB, 1904 First Ave., Hibbing, Minn.

**RESURFACING AND PATCHING MATERIAL  
AB65126**

An improved type of Armor resurfacing and patching material for concrete floors is manufactured by The Mon-ae Co., Inc., Dept. AB, Cleveland 6, Ohio. Shipped by the manufacturer as a dry powder it can be used by adding water and applying, in much the same manner as concrete, as an over-all floor resurfacer and for filling cracks in concrete floors. Designed for use in industrial plants of every type.

**CONCRETE DRILLS**

**AB65105**



A scientifically-designed worm drill which withdraws the residue from the drill-hole is an important feature of the "Termite" drill offered by Concrete Termite Drill Co., Dept. AB, 2084 Foothill Blvd., Pasadena 8, Calif. The Concrete Termite drill, recommended for drilling multiple holes in concrete, is available in various lengths in diameters of ¼, ⅜, ½, ⅝, and ¾-inch. The Core Termite is of hollow construction and is used for drilling large-diameter holes. It is available in various lengths in diameters from ⅝-inch to 5-inch.

(Continued on page 146)



**30 Years**  
*in the*  
**Tall Timber**



**APMI SALES WAREHOUSES:** 925 Toland St., San Francisco; 4814 Bengal St., Dallas; 4003 Coyle St., Houston; 4268 Utah St., St. Louis; 1026 Jay St., Charlotte, N. C.; Eugene and Willamina, Oregon.

**The experience** of Associated Plywood Mills dates from 1921. That is a long time in the relatively young plywood industry—long enough to mark APMI as one of the pioneers in the development and growth of this important building product.

The rich, rain forests of Oregon yield the fine Douglas fir that comes to APMI mills. These mills are among the largest and most modern in the plywood industry. They produce quality exterior and interior panels that are grademarked and trademarked.

APMI plywood is available in major building and distribution areas. Your inquiries are welcomed at our general offices, or at APMI sales warehouses.

**ASSOCIATED**  
**PLYWOOD MILLS, INC.**

GENERAL OFFICES  
**EUGENE, OREGON**

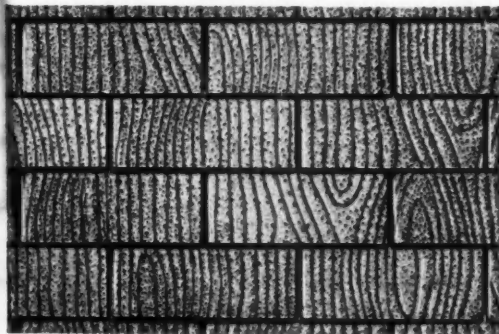
# The Lighter Blends your

...yours exclusively from **CELOTEX!**

Smart! Unusual! Modern! Dozens of alert builders have found that these beautiful, "Color Harmonized" Celotex lighter blends add a world of QUICK-SALE appeal to homes. They're exactly the colors your prospects want most in roofing . . . as proved by studies of actual consumer trends. And you get them *only* in Celotex Triple-Sealed Asphalt Shingles!

Other big Celotex advantages: *Extra* weather protection, *extra* years of service *built in* by the exclusive Triple-Sealed Process! Colors, blends, and textures to suit every taste, every decorative plan! Types and weights for every purpose. Without obligation, see samples of these rugged thick-butt shingles right away. Mail coupon below.

Exclusive **CELOTEX** blends like this make your homes easier to sell...



## CORAL BLEND

Even the most modern color printing can only hint at the charm of this handsome Celotex blend, reproduced here. You must see it to appreciate its unusual color beauty. And it's typical of the popular *lighter* blends now yours in Celotex Triple-Sealed Asphalt Shingles! Other "Color Harmonized" blends are Pacific Gray Blend—Silver Blue Blend—Terra Cotta Red Blend—Cedar Green Blend—Mediterranean Blue Blend—Walnut Brown Blend—Gray Slate Blend. To see samples, without obligation, mail coupon now!

### How the name **CELOTEX** makes your selling job easier

Over a quarter century of national advertising leadership has established the Celotex brand name in every community . . . has created widespread public acceptance for Celotex Building Products.

And this acceptance is growing constantly, thanks to impressive Celotex

advertisements reaching millions of readers in THE SATURDAY EVENING POST, BETTER HOMES & GARDENS, FARM JOURNAL, and other popular national magazines.

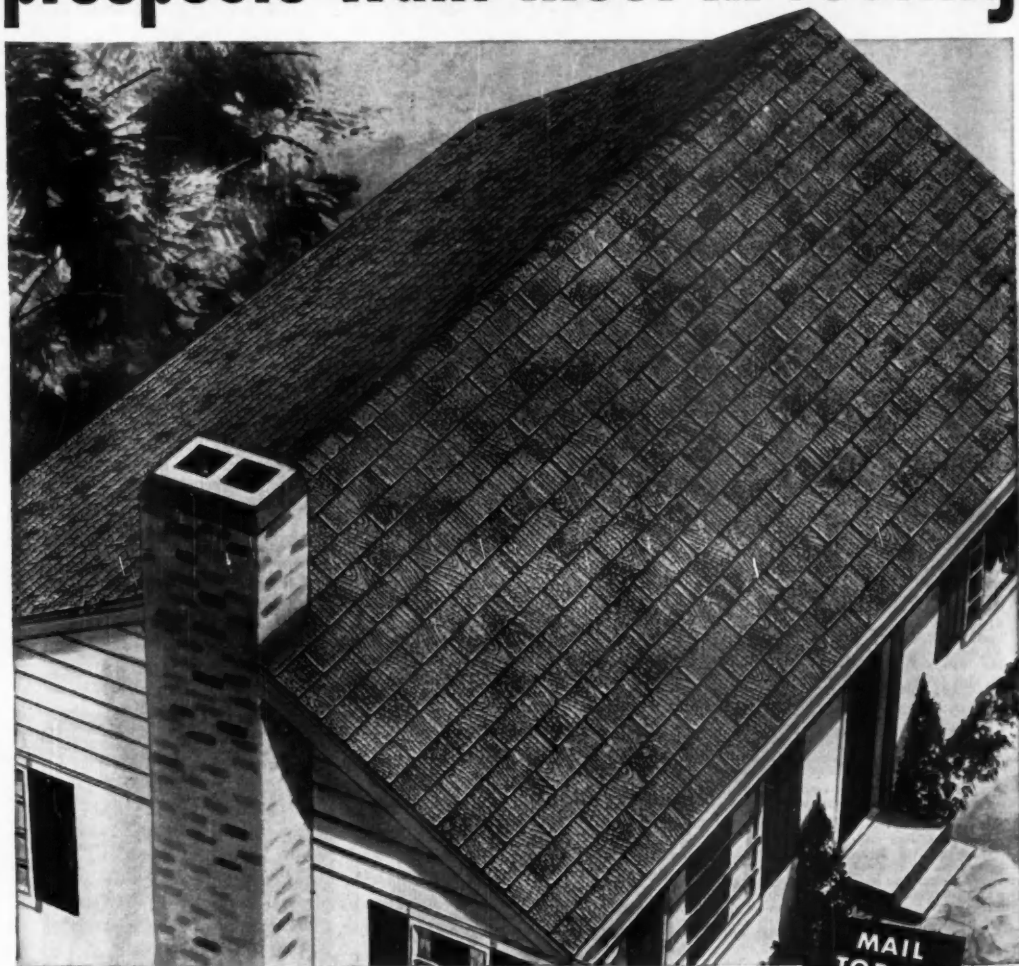
Consistent, effective national advertising featuring Celotex Triple-Sealed Asphalt Shingles and other famous Celotex products, builds confidence . . . pre-sells your prospects. That's one reason why homes built with Celotex Products are easier to sell!



AMERICAN BUILDER



# prospects want most in roofing



**MAIL  
TODAY!**

To give your homes extra sales-appeal...

## CELOTEX

REG. U. S. PAT. OFF.

**TRIPLE-SEALED ASPHALT SHINGLES**

THE CELOTEX CORPORATION • 120 S. LA SALLE STREET  
CHICAGO 3, ILLINOIS

The Celotex Corporation, Dept. AB-61  
120 S. La Salle Street, Chicago 3, Illinois

Without obligation, I would like to see samples of Coral Blend, and other popular "Color Harmonized" Blends and Colors now available in Celotex Triple-Sealed Asphalt Shingles.

Name

Address

City  Zone  State

this might work



for laundries...

**BUT** there's an easier way to get **BUSINESS** in the **NEW-CONSTRUCTION FIELD**

Dodge Reports give you prospects who are not only ready to buy but who are going to be sold soon by someone. Is that someone you?

Dodge Reports tell you who is building what, where and when. Manufacturers, contractors and suppliers depend on this long-established business service for reliable sales leads.

Dodge Reports are the product of the daily investigations of more than 900 trained news gatherers, who get new building facts straight from owners, architects, engineers, contractors and many other sources.

Dodge Reports are carefully screened to meet your own needs. You select the specific trading areas, large or small, in which you are interested anywhere east of the Rockies. You also specify the jobs you want reported by type of construction, minimum valuation and by stage of development. You will then receive comprehensive information on every job thus selected and reported daily to you.

Find out how Dodge Reports help you land new business. Mail coupon for details or call the F. W. Dodge office near you.

I would like to see some Dodge Reports on business within my area. I do business East of the Rockies.

Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Address \_\_\_\_\_

**DODGE REPORTS**

CONSTRUCTION NEWS DIVISION  
F. W. DODGE CORPORATION  
119 W. 40th St., New York 18, N. Y.

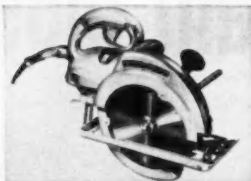


## NEW PRODUCTS

(Continued from page 142)

### POWER SAW

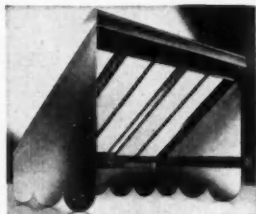
AB65113



Model 905, power saw with an 8-inch blade, and weighing 19 pounds, is featured by Cummins Portable Tools Div., Cummins-Chicago Corp., Dept. AB, 4740 N. Ravenswood Ave., Chicago 40, Ill. Saw can make a square cut of 2 3/4 inches, and cut through 2 3/16-inch lumber at 45 degree angle. Handles all framing operations on 2-inch rough lumber. Equipped with Universal AC-DC motor, 115 volts, (220 volts special) with no-load speed of 3600 rpm.

### AWNING

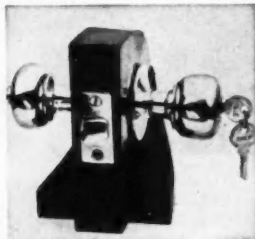
AB65128



"Staylite" awnings manufactured by Stahl Industries, Inc., Awning Div., Dept. AB, 340 W. Earl Ave., Youngstown, Ohio, are designed to provide restful shade under a scorching sun. They are designed to shade without darkening the room. Periodic repainting is not necessary. There are no working or moving parts to repair. Outstanding feature is that each awning is packaged completely, and is ready to install easily. A wide variety of color combinations are available.

### TUBULAR LOCK

AB65134



A Home Duty line of Yale residential tubular locks are now in production at the Stamford Div., Yale & Towne Mfg. Co., Dept. AB, Chrysler Bldg., New York 17, N. Y. The "key-in-the-knob" Home Duty front door lock has a newly-designed locking device. It is a disc-type cylinder with double side bars, and having a "triplex spindle" which permits attachment of the knob at any point, thus minimizing the possibility of loose fitting knobs.

(Continued on page 148)

## ★ Radial Arm Saw

For Finish Work



★ PORTABLE, ACCURATE, INEXPENSIVE

★ MITERS, RIPS, CUTS OFF.

★ SHAPES & DADOS TOOL!

PRICE: \$239.00

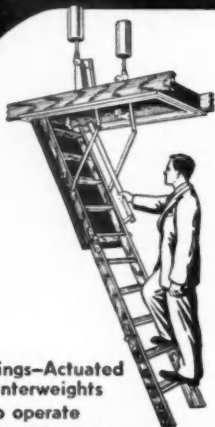
As illustrated  
F.O.B. Los Angeles

Miters fit tight every time with a Comet Cub. It's patterned after big production-tested radial saws. It's small, highly portable and priced right for finish work on cabinets, trim sash, frames, etc. Because the saw moves above the work and the arm retracts fully, layout marks are always in plain view. When equipped with a shaper table and shaper heads, the Comet Cub will run moldings and trim—with other heads it will dado and mortise. In fact, it does a wide variety of woodworking jobs just as well as high-priced individual tools. Find out today how the Comet Cub can fit on your job or in your shop. See your building machinery dealer or write:

CONSOLIDATED MACHINERY & SUPPLY CO., LTD.

2021 Santa Fe Ave., Los Angeles 21, Calif.

## PRECISION folding stairway



- No springs—Actuated by counterweights
- Easy to operate
- Safety treads on steps
- Insulated door panel
- Requires no attic space
- Shipped in one package

Write for full information

**PRECISION PARTS CORP.**  
Nashville 7, Tennessee

AMERICAN BUILDER

# SMALL HOUSE

*of the Month*



## GOOD HOUSEKEEPING SELECTS

**VAN-PACKER**  
*The Complete Chimney*

### Meets The High Standards of Quality • Safety • Economy Demanded by Builders Everywhere

Architect Fred W. Harsen, of Tenafly, New Jersey, Lovel Construction Company, and Good Housekeeping magazine selected the Van-Packer chimney for this modern house because it is low cost, efficient and safe. In addition to these reasons, more and more builders and contractors are selecting Van-Packer because it saves them precious man-hours on the job. In just three man-hours, most installations can be completed—and there's no waiting for a

sub-contractor to come in—no scaffolding to erect—no pier to construct—no mess to clean up afterward. Everything needed to complete the chimney is included in the tightly sealed packages. *There's nothing else to buy.* Use Van-Packer in your next house and we are sure you will always use it.

**HOW DO I ORDER**—For exact quotation, supply only two measurements from top of rain cap: (1) to the roof on the longside and (2) to the floor or ceiling where base is suspended.

**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** FLUE  
*The Complete Chimney*

Van-Packer Corporation  
Dept. 1206, 209 South LaSalle Street  
Chicago 3, Illinois

Yes, I want complete details and free literature. What is the name of my nearest dealer.

NAME \_\_\_\_\_

FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

**Avoid costly errors  
with this . . .**

**NEW UNIVERSAL  
Level Transit**

Price \$185.00 \*  
complete with tripod



Now David White offers you, at the lowest price anywhere, the finest of Universal Level Transits with 4 1/2" protected arc, internal focusing and coated optics.

Don't wait if you're in the market for a new all-round practical builder's instrument — see the improved new David White Model 3000 Universal Level Transit now.

You'll find this instrument properly used will be your best insurance against costly layout and building errors. The new 4 1/2" protected arc means easier, more accurate readings, less likelihood of instrument damage through accident. Internal focusing assures you of dust and dirt-free inside lens surfaces, better protection for optical parts and mechanism. Coated optics mean clearer, distortion-free images, sharper definition, positive readings at greater distances and under adverse conditions. Instrument spindle supported on ball bearings for perfect horizontal adjustments.

Ask your nearest dealer to give you complete information on this and other fine engineering instruments. Or write direct to David White Co., 311 W. Court St., Milwaukee, Wis.

**We offer complete, prompt repair service on all makes of instruments — levels, transits, theodolites, etc.**



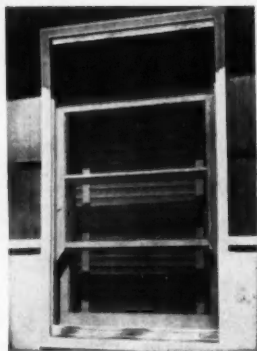
\* Prices subject to change without notice.

**NEW PRODUCTS**

(Continued from page 146)

**TENSION SCREEN**

**AB65106**



An all-aluminum screen for double hung windows, non-rusting and needing no paint is developed by Rudiger-Lang Co., Dept. AB, Eighth & Carleton Sts., Berkeley 10, Calif. Screen fits standard-size double-hung wood windows, or can be made upon order to fit any window. It is fitted and removed in seconds by snapping over screws.

**CUTTER SET CARTONS**

**AB65118**

A special carton used for packaging individual "Tru-Form" shaper cutters has been announced by Boice Crane Co., Dept. AB, 966 Central Ave., Toledo 6, Ohio. Sides of the carton contain data for operation with a check-chart and instructions for regrinding. Detailed instruction sheets are also included. Along with instruction sheets are cardboard cutter Check-Chart templates for guidance in proper grinding and joining of the particular cutters.

**FURNACE CONTROL**

**AB65103**



A new combination furnace control featuring a single flexible sensing element and a fail-safe limit switch is manufactured by Minneapolis-Honeywell Regulator Co., Dept. AB, 2747 S. Fourth Ave., Minneapolis 8, Minn. Switch is designed for use with package heating units of compact design. Single flexible sensing element is available in 10, 20, 30, 40, and 60-inch capillary lengths. Convenient control permits manual operation of the fan for summer ventilation.

(Continued on page 150)



**This EMBLEM ON  
YOUR DOOR MEANS . . .**

- A** More profits for you
- B** More service to your customers
- C** MORE SALES



Let Us tell you more about it and send you a copy of . . .

**THE ABC'S OF MAKING MONEY**

**ALLIED BUILDING  
CREDITS, INC.**

HEAD OFFICE: 209 WILSHIRE BLVD. • LOS ANGELES

**NATIONWIDE SERVICE**

**Made \$900  
IN SPARE TIME**

"I did very well last year with my Foley equipment, about 950 saws and 240 lawn mowers, in my spare time. About \$900 for me."

—Leo H. Mix

Carpenters make up to \$2 or \$3 an hour in Spare time. With a Foley Automatic saw Filer you can file hand, band and circular saws better than the most expert hand filer. Cash business—no canvassing. No eyestrain. No experience needed.

**FREE BOOK**

**"INDEPENDENCE AFTER 40"**

shows just how you can start at home in spare time, with small investment, no overhead — and develop into a full-time repair shop. Send coupon today for this practical plan. No salesman will call.



Send Coupon for **FREE BOOK**

**FOLEY MFG. CO., 624-1 Foley Bldg., Minneapolis 18, Minn.**

Send **FREE BOOK**—"Independence After 40".

Name .....

Address .....



**AMERICAN BUILDER**

**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. Mill-ware Checking List. Materials Ordering Information. Quick-Figuring Tables for estimating concrete footings and walls, concrete piers, window frames, door and window areas, sash 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, and see the "Estimating 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**

Just fill in and mail coupon below to get "Simplified Carpentry Estimating" for 10 DAYS FREE TRIAL. If not fully satisfied, return the book and owe nothing. If you keep it, send only \$3.50 plus few cents postage in full payment. You take no risk. Mail coupon now.

### MAIL THIS COUPON

SIMMONS-BOARDMAN Publishing Corp. 6-51  
30 Church Street, New York 7, N. Y.

Send me for 10 DAYS FREE TRIAL, "Simplified Carpentry Estimating." I will either return it in 10 days and owe nothing, or send only \$3.50 (plus shipping charges) in full payment.

Name .....

Address .....

City & State .....



# Superflame

**DELUXE "TWIN" FLOOR FURNACE**



✓ **EXCLUSIVE OVERSIZE "FUEL-SAVER"!**

Increase Radiating Surface Approximately	<b>100%</b>	Cuts Chimney Loss	<b>40%</b>
---	-------------	-------------------------	------------

**SAVES UP TO 1/3 ON FUEL**  
Only Superflame has it!

✓ **"TWIN" BURNERS... "TWIN" HEAT CHAMBERS!**

Like two furnaces in one! Use one when it's MILD... two when it's COLD! This advanced design insures greater circulation throughout entire house at every level!



✓ **CUTS LABOR AND MATERIAL COSTS TO THE BONE!**

No air ducts needed! No basement needed! One complete unit that installs quickly easily under the floor, out of sight!

**MAIL TODAY  
FOR COMPLETE  
FREE  
LITERATURE**

Find out why Superflame will help YOU sell homes **FASTER!**

QUEEN STOVE WORKS, INC., Dept. AB61  
Albert Lea, Minnesota

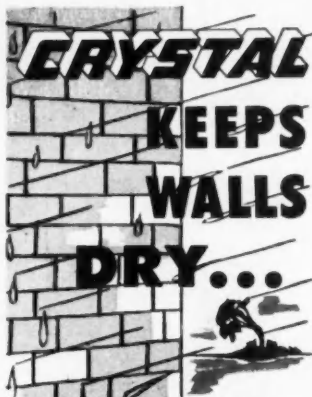
Send full information about Superflame "Twin" Floor Furnaces.

Send me FREE literature.  Send the name of my nearest distributor.

Firm Name .....

Address .....

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



**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.  
Send me your NEW comprehensive manual on Crystal.

Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

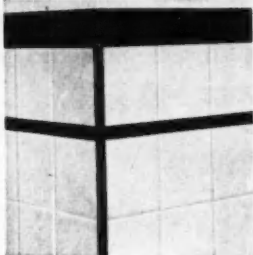
**WURDACK** CHEMICAL COMPANY

4956 Fyler Ave. • St. Louis 9, Mo.

## NEW PRODUCTS

(Continued from page 148)

PLASTIC CORNER PIECE AB65120



An all-plastic extruded outside corner for plastic wall tile installations has been announced by Machmeister, Inc., Dept. AB, Pittsburgh, Pa., manufacturers of Coronet Plastic Wall Tile. This corner piece is made of the same material as the tile itself. It presents a complete finish to any outside corner installation by concealing all row cut, as well as whole tile beveled edges. It is especially adaptable where the staggered plastic wall tile pattern is used. Available in five Coronet trim colors.

REFLECTIVE INSULATION AB65133

An addition to the complete line of reinforced, water-proof and black paper lines of the Rich-kraft Co., Dept. AB, 228 N. La Salle St., Chicago 1, Ill., is a reflective insulation, known as "Richflex." Type A consists of two sheets of Richflex-coated Kraft, bonded together with asphalt and reinforced at the edges and center to provide nailing strips. Type B, consists of one sheet of Richflex-coated Kraft, bonded with asphalt to one sheet of plain Kraft. Designed for use in walls, ceilings or under floors in both new or old houses or buildings. Application is easy and requires no special tools.

AIR CONDITIONER AB65131



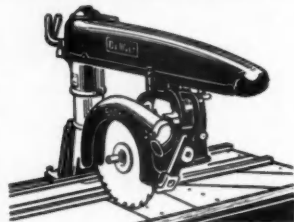
A portable 1/8 horsepower "Humidry" unit, designed for a wide range of moisture-removing applications from home basements to vaults and storage lofts, is manufactured by the Carrier Corp., Dept. AB, Syracuse, N. Y. Weighing 60 pounds, the unit has been fitted with casters and handholds so it can be moved wherever needed. It can be plugged into any standard 115 volt circuit. It is enclosed in a flat-topped, rectangular cabinet, measuring 23 1/2 inches high, 17 1/2 inches long, and 13 1/2 inches wide, with a baked hammerstone enamel finish. Condensed moisture can be disposed of through the nearest drain by attaching a piece of rubber tubing to the drip pan spout. Removable condensate pail is also provided with the unit.

(Continued on page 152)

## BUILDERS!

save up to  
**\$200 PER HOUSE**  
by using an all-purpose

## DeWALT

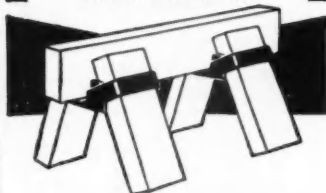


Builders everywhere say they save money from cellar to roof by putting DeWalts on the job! This versatile, flexible "builder's saw" is many machines in one. It starts your house — finishes your house — saves you time and money and builds a better house. It's fast, accurate, safe, dependable. Write for catalog! DeWalt, Inc., Dept. AB-6, Fountain Ave., Lancaster, Pa.

## Jiffy

### SAWHORSE BRACKETS

SET UP OR TAKE DOWN  
WITHOUT NAILS OR BOLTS



Saves time for carpenters, painters, paper hangers, contractors, and builders. Also saves trucking and storage space between jobs. Use any 2x4 for legs—2x4, 2x6, or wider for crossbar.

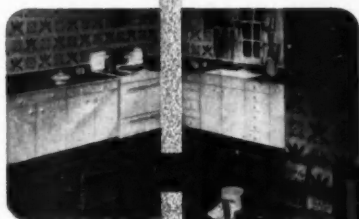
At building supply and hardware stores. Look for the handy display carton. If your dealer cannot supply you, order direct.



GRAND HAVEN  
STAMPED PRODUCTS  
COMPANY  
GRAND HAVEN, MICH.

AMERICAN BUILDER

# Every Plastic advantage at a moderate cost!



*Vinylite*

PLASTIC FLOOR COVERING

design  
function

■ **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-POROUS—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.

## send for your sample set

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, Duratin.

DELAWARE FLOOR PRODUCTS, INC.  
295 9th Ave., New York 14, N. Y.

Without obligation, please have your representative deliver a set of FLOR-EVER color samples, usable as a guide in specifying or ordering.

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

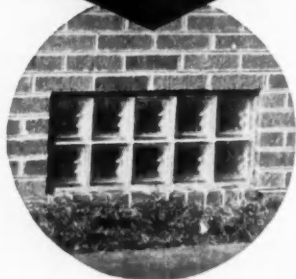
City \_\_\_\_\_ State \_\_\_\_\_

6-51



"For Problems like this"

We recommend this"



... says a typical glass block dealer

"When our customers ask us what to do about old-fashioned basement sash that need replacing or windows that continually seem to be broken, we always recommend a panel of Insulux Glass Block®.

"It's easy to see why. Glass block makes a sound, weathertight, insulating panel that's extremely hard to break. We know it can't rust nor rot and never needs painting. And, glass block lets in all the light yet blocks out sight."

Figure it out for yourself: Compare the cost of sash, screen, plus storm window for cold climate and maintenance against that of a lifetime panel of maintenance-free Insulux Glass Block.

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 Insulux Glass Block? Just write: Daylight Engineering Laboratory, Dept. AB-6, Box 1035, Toledo 1, Ohio. Insulux Division, American Structural Products Company, Subsidiary of Owens-Illinois Glass Company.

## INSULUX

"WALLS OF DAYLIGHT"

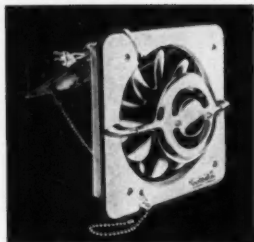
—by the leaders of Daylight Engineering

## NEW PRODUCTS

(Continued from page 150)

### UTILITY VENTILATOR

AB65122



The Model 80, one-piece, nine-blade fan, manufactured by National Appliance Co., Dept. AB, 4814 Vernor Hwy., Detroit 9, Mich., is designed for basements and utility rooms to remove excess moisture caused by laundry equipment. It has a face plate 10 3/4 inches square, and a window opening 10 1/4 by 9 5/16 inches is required. Capacity is in excess of 500 cfm. Operates on an induction type motor, 60 cycle, A.C., 110 volts. Additionally suitable for kitchen, bathroom, bedroom, recreation room or office installations.

### MATERIALS HOISTING TOWER AB65137

A material-hoisting tower, requiring no operator and using standard sectional scaffolding and adapter equipment, is now available from the Wilson-Albrecht Co., Inc., Dept. AB, 3550 Wooddale Ave., Minneapolis 16, Minn. It is furnished with complete gas or electric power unit, guide rails, cable and pulley equipment, cage and clutch. The tower may be erected to a height of 120 feet.

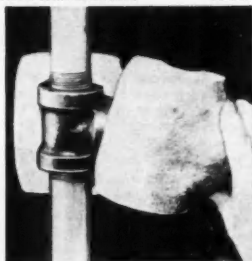
### AIR CONDITIONER

AB65115

A pressure atomizing oil-fired winter air conditioner is manufactured by Richmond Radiator Co., Dept. AB, 19 E. 47th St., New York 17, N. Y. The unit is made in two sizes, 85,000 and 106,000 B.T.U. output at bonnet. Finished in light green Hammerstone baked enamel. A 12-gauge steel heat exchanger is utilized. Easy installation is provided through an oil burner and combustion chamber assembly which is flange-mounted and secured with four nuts. Combustion chamber is built of stainless steel. Burner is approved Underwriters Laboratories, Inc.

### FITTING INSULATIONS

AB65109



Molded from Fiberglas, "Birpac" insulation has low thermal conductivity and is made to fit around ells, tees and 45-degree pipe connections. Available for all standard sizes of pipe from 1/2-inch to 8-inches in standard thicknesses. Made by Birma Products Corp., Dept. AB, 2665 Maie St., Buffalo 14, N. Y.

(Continued on page 154)

## SEAL-ALL CLIPS



Actual size of Seal-All Clip

A simple sturdy clip designed to interlock shingle sections and prevent raising of asphalt shingle tabs. The perfect clip for hexagonals, 3 in 1 strips and individual-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.

BUILDERS AND DEALERS! For complete information and free samples, write today.

## SEAL-ALL CLIP COMPANY

BOX 3028

FLINT 1, MICH

## 1st choice for AUTOMATIC CONTROL



A-100 Thermostat Relay Automatic Reset



L-34 Fan and Limit Control



TX-5 Cold Air Return Package Set



T-70 Room Thermostat

BX-69 Room Thermostat Package Set

## GENERAL CONTROLS

DI. ALBUQUERQUE GENERAL T. CALIFORNIA

Manufacturers of Automatic Pressure, Temperature, Level and Flow Controls

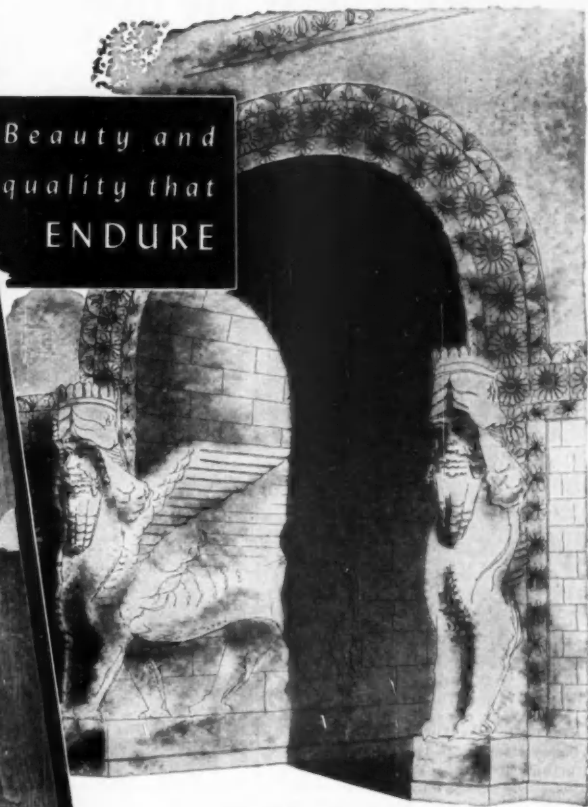
FACTORY BRANCHES: Baltimore 5, Birmingham 3, Boston 16, Buffalo 3, Chicago 5, Cincinnati 2, Cleveland 15, Dallas 2, Denver 4, Detroit 21, Glendale 1, Houston 6, Indianapolis 5, Kansas City 2, Minneapolis 2, Newark 6, New York 17, Philadelphia 23, Pittsburgh 22, St. Louis 3, San Francisco 7, Seattle 1, Tulsa 6, Washington 6. DISTRIBUTORS IN PRINCIPAL CITIES

AMERICAN BUILDER





Beauty and  
quality that  
**ENDURE**



## HASKO ARCH-KOR DOORS

the result of proved performance  
through the use of proved  
construction principles



Since Neolithic Man's discovery of the principle of the arch a perfection of beauty and strength have been added to our structures. Since Haskelite Men utilized the principle of the arch in HASKO ARCH-KOR DOORS, their lasting beauty and enduring strength have created a constantly growing demand, which places them today

in a position of top leadership in their field. The highest quality materials and the best in craftsmanship have helped build and maintain the reputations of suppliers of materials who specify and use HASKO DOORS. These are proofs of their worthiness of your endorsement and use. Ask your supplier for HASKO DOORS. Write for complete information.

*Hasko ARCH-KOR and SOLID-KOR Flush Doors are available faced with birch, mahogany, oak, maple, walnut, and gum.*

**HASKO**

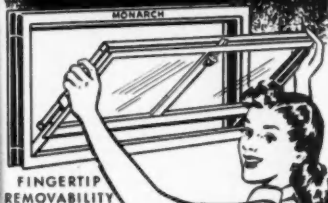
**HASKELITE MANUFACTURING CORP., Grand Rapids 2, Michigan**

West Coast Agents: Clay Brown & Co.,  
Portland, Ore., and Los Angeles, Calif.

One of the world's largest manufacturers of plywoods, metal clad plywood,  
and other laminated materials for use in industrial and consumer products.

# RAPID TURNOVER— BIGGER PROFITS WITH IN-A-SLIDE BASEMENT WINDOWS

100% MORE IN-A-SLIDES  
SOLD IN 1950 THAN IN 1949



FINGERTIP  
REMOVABILITY

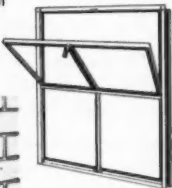
This amazing increase in sales is due entirely to the fact that convenient, long lasting In-A-Slides are truly the best buy to be had in the window field today.

Heavy steel, press-formed channel construction—top quality, double weather protection—ease of installation—instant removability of sash—ease of operation—these are but a few of the quality features that have made Genuine In-A-Slides FIRST CHOICE among dealers and contractors.

These rapidly soaring sales mean but one thing to the dealer in In-A-Slides: BIGGER AND BETTER PROFITS.

## MONARCH UTILITY WINDOWS

Ideal for all commercial building, this economy window incorporates many of the outstanding features of the well known In-A-Slides.



## MULLIONS

Used with Standard In-A-Slides, Monarch Mullions make sturdy multiple utility window units of from 2 to 6 to a section. Fit wall openings of various sizes.

SCREEN AND STORM SASH TO MATCH  
Sold Through Dealers Only



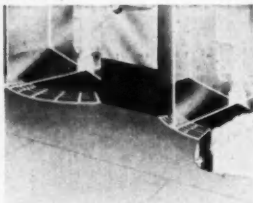
When you think of Basement Windows... think of  
**NEW MONARCH MACHINE & STAMPING COMPANY**  
406 S. W. NINTH STREET DES MOINES 9, IOWA

## NEW PRODUCTS

(Continued from page 152)

### DOOR DRAIN

AB65124



A non-skid revolving door drain, featured by the J. A. Zurn Mfg. Co., Dept. AB, Erie, Pa., is designed to minimize the problem of slush and dirty water tracked into the lobbies and entrances of hotels, office buildings, stores, and other buildings where revolving doors are used. The drain is placed flush with floor surface at both the exterior and interior openings, extending the full arc so that the moisture is wiped into the grating by the squeegee action of the rubber weather stripping at the bottom of the revolving door wings. The drain is made with a heavy cast-iron body, and dura-coated for protection against corrosion.

### CONCRETE CUTTING SAW

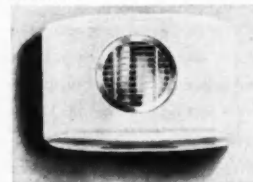
AB65119



Equipped with a gasoline motor, and designed to function indoors and outdoors regardless of job conditions or materials being cut, is the "Creeper" concrete cutting saw manufactured by the Martin Fireproofing Corp., Dept. AB, P. O. Box 27, Kenmore Station, Buffalo 17, N. Y. Guide rails give a smooth edge, straight cut and eliminate cutting blade breakage generally caused by side-to-side wobble or off-center pressure. Unit is equipped with water hose attachment for diamond or specially-bonded abrasive blades used where dust suppression is required.

### DOOR CHIME

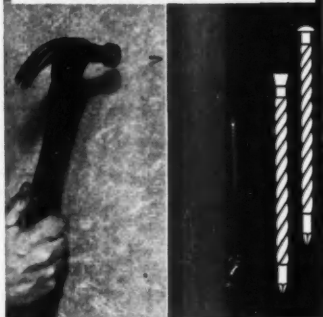
AB65102



The K-10 "Leader" door chime featured by NuTone, Inc., Dept. AB, Madison & Red Banks Rds., Cincinnati 27, Ohio, comes with white metal case and chrome louvre or ivory metal case with brass louvre. Sounds two notes for front door, one for rear door. Designed for small home owners and apartment house builders and contractors. Hooks up to doorbell wiring.

(Continued on page 156)

## wallboard drive screws



For installing asbestos cement-type wallboard use Hassall wallboard drive screws. Specifically designed with spiral threading for better holding power. Supplied with nickel-plated finish with either casing or button heads. Advise quantities. Prompt delivery.



**JOHN HASSALL, INC.**  
190 Clay Street  
Brooklyn 22, N. Y.  
Established 1850

## SUPERCEDAR

Brown's

RED CEDAR CLOSET LINING

Guaranteed

90% RED HEART 100% OIL CONTENT

NATIONALLY ADVERTISED

Brown's SUPERCEDAR is nationally advertised in House and Garden, House Beautiful and Small Homes Guide. Cedar closets help sell homes—help rent apartments.

PACKAGED  
SEALED

ALL WIDTHS  
40" TO 64"



Brown's sealed package protects the aroma and makes it easy to stock and sell at a good profit. Ready for use—dressed, tongue and grooved and end matched. Write for builders folder and consumer booklet.

Product of  
**GEO. C. BROWN & CO., Inc.**  
GREENSBORO, N. C. Established 1896

Largest Manufacturers of  
Aromatic Red Cedar in the world



## "That's the Insulation I'm Using in Your Home!"

Smart builder! He knows that when you can point out extra value in your homes . . . when you can show features that will add to comfort, prospects become buyers—fast.

Adequate insulation is one of those values. And of all insulations—Fiberglas® Building Insulation is best known. That's because of continuous promotion—like this full-color ad appearing in the June 23rd issue of The Saturday Evening Post—one of a series appearing in that publication.

By carrying the story of insulating values to more than 4,000,000 readers of the POST, Fiberglas is pre-selling your prospects for you. Take advantage of this powerful support.

Use it to sell more houses—more profitably.

With Fiberglas, of course, you get much more than a selling feature. You save labor costs, too, for Fiberglas Insulation is easier to handle, faster to install. You have less cutting and fitting. And the vapor barrier more than meets FHA requirements.

Although increased production has improved our delivery situation, demand is heavy, so contact your local building supply dealer now. Try the new compression-packed rolls. It pays the buyer . . . it pays you . . . to provide the best possible insulation. Standardize on Fiberglas Insulation for all your homes. Owens-Corning Fiberglas Corporation, Dept. 62F, Toledo 1, O.

OWENS-CORNING  
**FIBERGLAS**  
THE INSULATION THAT SELLS

\*Fiberglas is the trade-mark (Reg U S Pat. Off.) of Owens-Corning Fiberglas Corporation for a variety of products made of or with fibers of glass.

### BUILDING INSULATION

AVAILABLE THROUGH 5 DISTRIBUTORS



ARMSTRONG  
CORK CO.  
Lancaster, Pa.



CERTAIN-TEED  
PRODUCTS CORP.  
Armstrong, Pa.



THE FLINTKOTE  
COMPANY  
New York, N. Y.



MINNESOTA AND  
ONTARIO PAPER CO.  
Minneapolis 2, Minn.



KELLEY ISLAND LIME  
& TRANSPORT CO.  
Cleveland, Ohio

# the **BIG NAME** in **HEATING**

— for radiant or radiator heat!

*Compact, Efficient—Quickly Installed!*



Type 10 Gas Boiler — from \$4,000 to \$78,000 Btu.

# Mueller Climatot



**— fuel-thrifty boilers  
add sales appeal to every job you build!**

This famous name on a radiator or radiant installation wins immediate acceptance from your clients. And their satisfaction — years afterwards — is good-will that pays dividends.

Compact, beautifully styled, the Mueller Climatot gas boiler is built for today's homes . . . sized to give close-to-capacity fits for every job . . . designed for quick, easy installation . . . and built to deliver trouble-free comfort for years.

Specify or recommend the Big Name in Heating — Mueller Climatot — for all your radiator or radiant heat jobs. Your choice is backed by Mueller's 94 years of home-heating leadership. Write for our new "all product" catalog. . . L. J. Mueller Furnace Co., 2021 G W. Oklahoma Ave., Milwaukee 15, Wis.



Type 20 Boiler — For commercial sales. Sectional construction for battery installation from \$15,000 to \$7,700,000 Btu. For hot water, steam or vapor heat, and hot water supply.

B-54



# Mueller Climatot

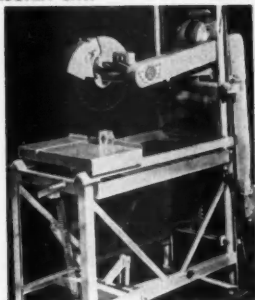
**FOR GAS FOR OIL FOR COAL**

## NEW PRODUCTS

(Continued from page 154)

**MASONRY SAW**

**AB65135**



An all-steel Supreme Speed Kut masonry saw has been developed by The Supreme Equipment Corp., Dept. AB, 12415 Euclid Ave., Cleveland 6, Ohio, in both wet and dry cutting types. A control handle below the safety on-off switch is provided for manual operation, if desired. Powered by an enclosed, heavy duty, 1½ H.P. motor, it has abrasive or diamond-type cutting wheels. Designed to permit use of the cutting wheel right down to the hub. Abrasive blades are designed to do cutting jobs on concrete, cinderblock, limestone, transite, masonite, or tile marble, terra cotta, firebrick, and granite.

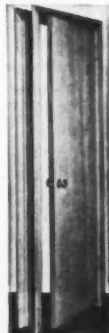
**GAS RANGE**

**AB65125**

An addition to the line of products made by Perfection Stove Co., Dept. AB, 7609 Pratt Ave., Cleveland 4, Ohio, is the Model 5012 gas range. Its 36 inches wide and has two oversize and two standard simmer-control burners. A banquet size oven is featured, along with a roll-out broiler drawer. Range has an automatic top burner lighter and oven control. A storage compartment, divided into two sections, provides space for pots and pans. It is finished in titanium porcelain enamel.

**PREFABRICATED DOOR**

**AB65139**



A prefabricated, ready-to-install, pre-hung and fitted door and jamb, manufactured by the William R. Lutze Co., Dept. AB, 18 Bergen St., Brooklyn, N. Y., has an adjustable feature for fitting to any wall thickness. It is available in a choice of sanitary or colonial trim. Sizes range from 18 inches to 32 inches in any 2-inch width, 6 feet 8 inches high, 1½-inches thick; 34-inch and 36-inch doors are available on special order.

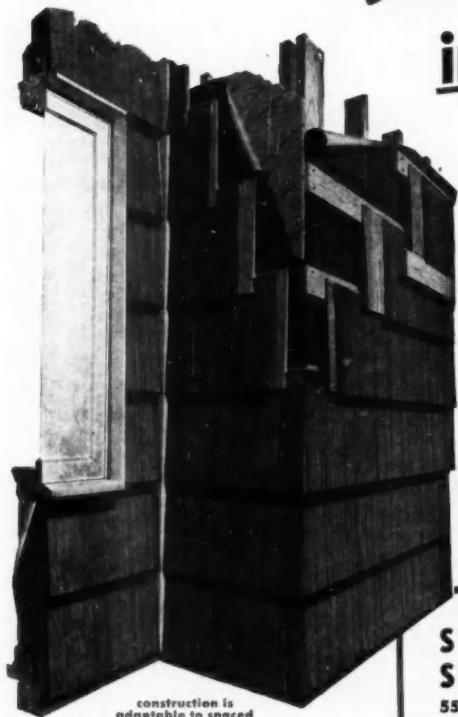
(Continued on page 162)

**AMERICAN BUILDER**

thank you...

....The residential builders of  
America have increased the use  
of **PRE-STAINED CEDAR SHAKES**  
by... **200%**

**in only TWO years**



construction is  
adaptable to spaced  
or solid sheathing

When the use of a building material increases *six times* as fast as the general trend of house construction, that's big news! And it has happened in the use of pre-stained cedar shakes during the last two years. Yes, while home building starts increased by 28%—home builders increased the use of cedar shake walls by more than 200%!

**OPTIONAL SHEATHING:** In many areas, builders find that cedar shakes offer an important cost advantage because they can be applied over *spaced* sheathing. Butt nailing of double-coursed rows permits cedar shake application with equal ease on spaced or solid sheathing.

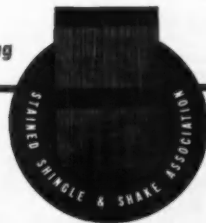
**PRE-STAINED** shakes offer builders a variety of colors for projects. They eliminate most of the cost of exterior color application, and permit builders to break the monotony of "row" houses by varying colors of pre-stained shake walls.

**WIDE WEATHER EXPOSURES** just come naturally with this outstanding wall material. For moderate cost wall construction, no quality wood product compares with cedar shakes, in beauty, durability and salability. Leading lumber dealers can supply you.

color . . . style . . . insulation  
for new construction or remodeling

**STAINED SHINGLE &  
SHAKE ASSOCIATION**

5527 White building • Seattle 1, Washington



MAKE IT AN  
*All American* JOB!  
SAVE TIME . . . SAVE LABOR!



- 1 FLOOR SANDERS.** Five models: *Super B* — high speed, 8" drum; *Standard* — widely used by contractors, 8" and 12" drums; *AMR* — a good auxiliary 8" sander; *Little American* — economical, 8" drum.
- 2 FLOOR EDGERS.** Two models, 7" and 5½" discs — for sanding edges, closets, stairs, small halls.
- 3 FLOOR MAINTENANCE.** American Deluxe, for all floors — polishing, waxing, steel wooling, disc sanding, 19", 16" and 14" sizes.
- 4 FLOOR FINISHES.** New complete line for all floors — seals, finishes, waxes, and cleaners.
- 5 PORTABLE ELECTRIC SAW.** 8½" blade cuts 2½" plank at 45°, or 3" straight cut. Motor develops 2¼ H.P. Cuts fast, any position, one hand operation.
- 6 SCINTA SAW.** Portable electric jig or saber saw for scroll work, dovetailing, cutting openings, etc. Two models—¾" and 1¼" cap.
- 7 BELT SANDERS.** Portable . . . many uses, roughing to final finish . . . Sanderplane is ten times faster than hand plane.
- 8 SPEEDY SPINNER DISC SANDER.** Good cutting control in disc sanding or polishing . . . curved or flat surfaces . . . wood or metal.

Get the right equipment *now* to save time and labor in maintenance, repair, remodeling and new building! Put American Machines on everyday jobs in floor sanding, steel wooling and polishing . . . and small tools for sawing, planing and disc sanding. These rugged American Machines do the work many times faster . . . increase your efficiency . . . improve quality of workmanship . . . and reduce costs! For a perfect finish on *any* floor—specify American . . . a complete new line of finishes, maintenance and cleaning materials for wood, cork, concrete, terrazzo, asphalt, rubber, linoleum or plastic. Send coupon for more details.

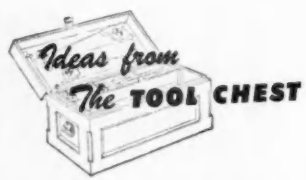
**SEND TODAY!**

The American Floor Surfacing Machine Co.  
511 So. St. Clair St., Toledo 3, Ohio  
Please send latest catalog on the following without obligation.

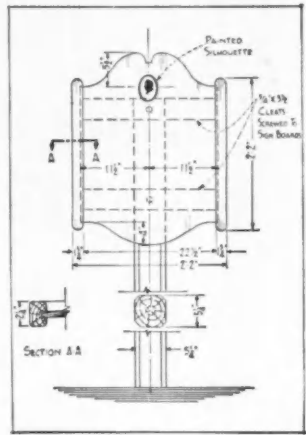
Floor Sanders    Floor Edgers    Portable Electric Saw    Floor Maintenance Machines  
 Floor Finishes    Belt Sanders    Scinta Saw    Speedy Spinner Disc Sander

Name \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

**AMERICAN**  
FLOOR MACHINES • PORTABLE TOOLS

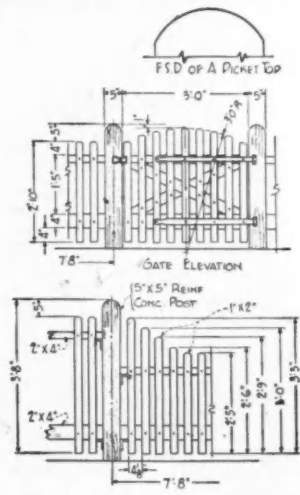


**How to Make a Road Sign**



The road sign shown above, done in the traditional manner, is excellent in design and good in scale. The sign is constructed of dressed white pine lumber, painted white.—C. D. Robb, Frankfort, Ohio.

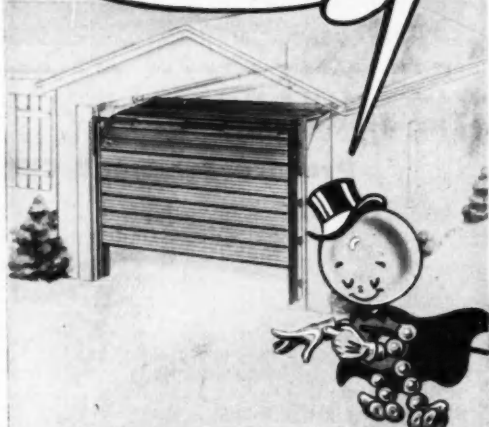
**Detail of Fence and Gate**



Pickets of fence are rough sawed and whitewashed. Lumber is white pine.—C. D. Robb, Frankfort Ohio.

**AMERICAN BUILDER**

**WHAT THE  
WELL-DRESSED GARAGE  
WILL WEAR!**



Yes, well-dressed garages — new and old — of all architectural styles — will be wearing, will look better with the

**Four-Sectional, All-Steel, Overhead  
MORRISON *Roly-Doors***



CROSS SECTION  
SHOWS  
SECRET OF  
MORRISON  
*Roly-Door*  
RIGIDITY and  
LIGHT WEIGHT

Architects and builders praise its simplicity — its streamlined four horizontally-ribbed sections, its "clean" look — free of all protruding hardware or other obstructions.

Architects and builders approve its finger-tip operation, its safety — its perfect balance in any position . . . and the fact that it conforms to all building code specifications!

Yes, you can "dress" your garages in the best—*for less*—with MORRISON *Roly-Doors*.

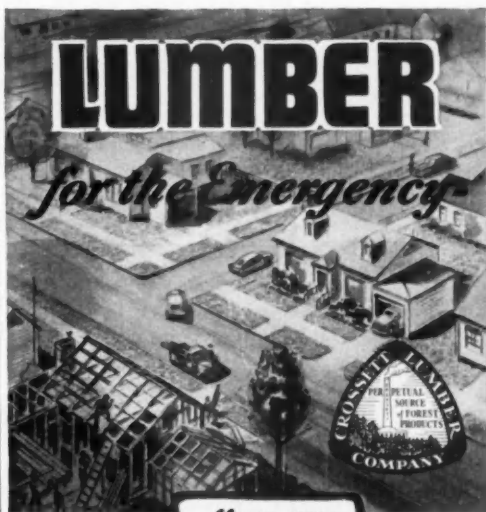
WRITE FOR YOUR FREE GUIDE  
to the selection of residential garage doors.

***Roly-Door***  
DIVISION



**MORRISON STEEL PRODUCTS, INC.**  
649 Amherst St. Buffalo 7, N. Y.

JUNE, 1951



When your big jobs call for carloads of quality lumber—get your dealer to call Crossett first! . . . Through the years, Crossett has been delivering trade and grade marked Arkansas Soft Pine and quality hardwoods to the building trade of America. Large timber reserves plus big mill production assure you deliveries of highest quality. During this national emergency, Crossett is dedicated to meeting expanding needs of our nation's defense effort. Special attention is called to the following items:

- Wolmanized\* Treated and Cressoted Lumber and Timbers
- Arkansas Soft Pine Satin-like Interior Trim
- Nail-Holding Dimension
- Royal Oak Flooring
- Center and End Matched Sheathing
- Hardwood Trim and Lumber

\*Reg. U. S. Pat. Off.



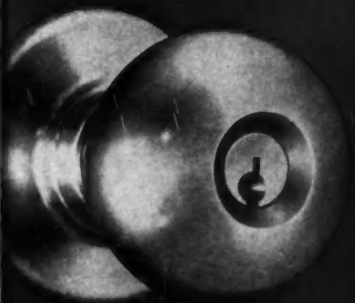
On What Shall Your Favorite Dealer Quote?

**CROSSETT LUMBER COMPANY**  
CROSSETT, ARKANSAS

# SCHLAGE®

THE WORLD'S MOST

IMITATED LOCK



SCHLAGE DURABILITY

# SCHLAGE\*



ONE BUILDING contains comfortable home and fire station

## Fire Station-Residence

### Practical for Small City

Louisiana town with volunteer fire department combines sub-station with residence for paid captain

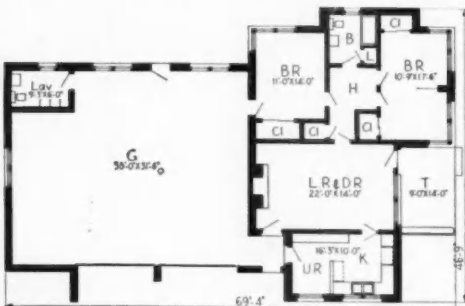
A combination fire sub-station and residence, completed several months ago by the city of Minden, La. (population, 10,000), has been found particularly well-suited for the needs of communities where a paid captain heads a fire department otherwise made up of volunteers.

In designing the building, J. L. McInnis, Minden civil engineer, planned as much privacy as possible for the captain's quarters while still providing quick access to the apparatus room.

Also taken into consideration was flexibility of room arrangement in the living area, since it will possibly be occupied by different families varying in size. An example of this planning is the use of an accordion-type door which permits division of one of the large bedrooms.

For ventilation, a squirrel-cage type of exhaust fan, 48 inches in diameter, is installed in a cupola over the hall.

The station-residence was built under contract by F. C. McClanahan of Shreveport, La. Price was \$23,000.



PRIVACY of living area and convenience are features of plan. Building was designed by J. L. McInnis, Minden, La., civil engineer

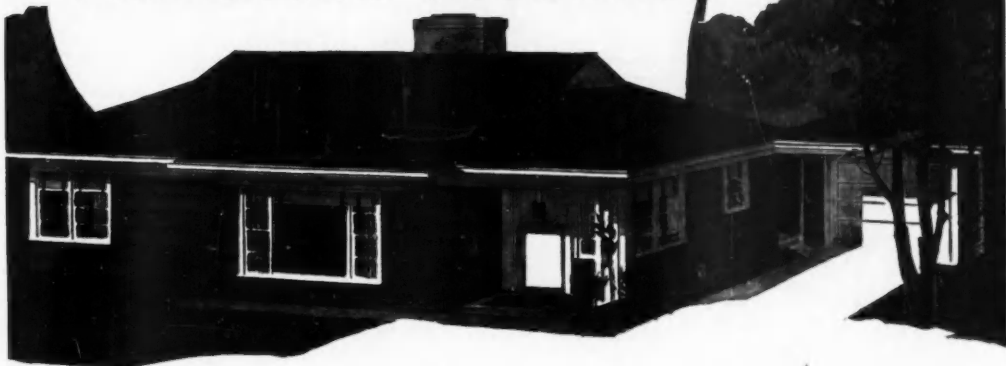
## Garage Roofs Become Playgrounds

The roofs of underground garages double as fenced-in play areas in a new garden-type apartment project in Milwaukee. The roofs are covered with asphalt paving and playground equipment installed.



Offer your customers true economy plus distinctive styling and lasting beauty...

*Sell*  
**SHAKERTOWN SIDEWALLS**



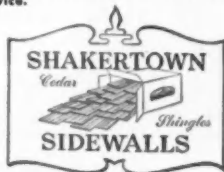
**H**ERE are the sidewalls that put quality *first*. Colorful, durable ShakerTowns are No. 1 Certigrade cedar shingles, double-coursed for extra value and extra economy. They give you and your customer a preferred and time-proved material for faster, better building and remodeling in every style and price range.

Are *you* featuring ShakerTown's distinctive home exteriors? ShakerTowns look better, last longer, cost less of every year of care-free service. Why not contact your supplier for details — or write direct — today.

*No Other Sidewall*  
gives you these selling advantages:

- 1** ShakerTowns are architecturally right for all types of homes, in all price brackets.
- 2** ShakerTowns are factory finished, requiring no further staining or painting on the job.
- 3** ShakerTowns combine natural wood beauty with extreme durability, high insulation and low upkeep.
- 4** ShakerTowns are backed by over a quarter-century of public acceptance for quality and service.

...sell



WEST COAST PLANT AT CHEHALIS, WASH.

*The* **PERMA**  
*PRODUCTS Company*



5455 BROADWAY AVE. CLEVELAND 27, OHIO

#### WHERRY HOUSING AT KEESLER AIR FORCE BASE, BILOXI, MISS.

Sponsored by Russel S. Wilkinson, James E. McGehee, Robert C. Snowden and Max B. Ostner of Memphis, Tenn. Architect: Everett Woods; Contractors: Wilkinson,

Snowden & McGehee. The 2-bedroom house pictured below rents for \$85.00 and is one of 718 units which include duplexes and 2, 3 and 4-bedroom residences.



\*Includes contractors' and architect's fee. Exclusive of land.

## New 718-unit project provides cool comfort for Air Force families

It is unusual for a low-cost housing development to offer so much in the way of modern beauty, high quality materials and extra features for the comfort and convenience of tenants.

One of the most popular features of this Keesler Housing Project are the Hunter Attic Fans which will keep occupants cool and comfortable on hottest summer nights.

### Cool comfort at low cost

The sponsors of Keesler Housing selected Hunter Package Attic Fans because of their dependable performance and low-cost installation. Fan, motor and suction box are all in one unit that requires only a ceiling opening in hallway and 18" clearance in the attic. Four models, ranging from 4750 CFM to 9700 CFM (ratings certified) fit any home size and any climate. Quiet, powerful, dependable, these fans are guaranteed by Hunter—exclusive fan makers since 1886.

◀ Wall switch starts fan and opens automatic shutter to pull in the cool night air and drive out the oven-like heat that accumulates throughout the day. In only a few minutes it's 10 to 20 degrees cooler inside.



Write for 36-page booklet, "How to Cool for Comfort" and complete data.  
**HUNTER FAN AND VENTILATING COMPANY**  
381 S. Front St., Memphis 2, Tenn.

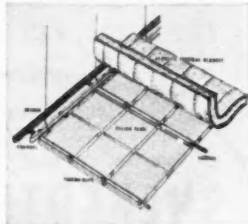
# HUNTER *Package Attic Fans*

## NEW PRODUCTS

(Continued from page 156)

### RADIANT CEILING

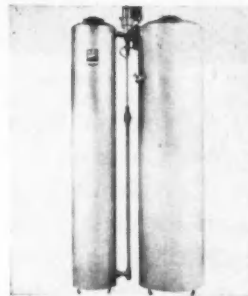
AB65140



An all aluminum ceiling combining radiant heating with room acoustics, has been announced by the Burgess-Manning Co., Dept. AB, Libertyville, Ill. The ceiling also may be utilized for air conditioning during hot weather. It is designed for office, institutions, public buildings and homes. Ceiling panels may be snapped into place and removed for inspection of heating coils or other building services. The perforated aluminum panels and heating units are attached to channels suspended from the ceiling by 7/16-inch pencil rods. Hot water flows through the two main coils connected by laterals spaced one or two feet apart which heat the entire ceiling.

### WATER SOFTENER

AB65116



Completely automatic and lined with rust and corrosion resistant baked plastic is the "Hydro-jet," manufactured by Webb Manufacturing, Dept. AB, 3454 Vosburg St., Pasadena 8, Calif. Operating at 15 psi pressure, salting takes only a few minutes. Fittings are of copper, brass or bronze. Finished in two coats of hammertone blue-green enamel. Softener and brine tanks require a space of only 60 inches high, 17 inches deep and 30 inches wide. Unit operates at 110-120 volts, 60 cycles.

### Stairways Should Be Well Planned

Consideration should be given to the specifications for the angle of ascent of the stairway in a two-story house, according to the Housing and Home Finance Agency. A properly designed stairway not only provides easy natural ascent to the second floor, but also can be made an outstanding decorative feature of the interior.

AMERICAN BUILDER



Heads the list  
of more and  
more careful  
home buyers!



Today's value-conscious home buyer is mighty choosy in selecting equipment for his new home. He looks for brand names he *knows*—names he can *depend on* for quality and lasting satisfaction. In heating equipment, that name is Timken Silent Automatic!

That's why so many leading architects and builders make it standard practice to install Timken Silent Automatic Heat! They profit directly from the 25-year reputation of this foremost automatic heating equipment—a reputation constantly being enhanced by hundreds of thousands of satisfied users. Be sure you'll profit from all the *multiple plus values* of Timken Silent Automatic Heat in the next homes you build. Write today for full details and performance data!

#### TIMKEN SILENT AUTOMATIC OFFERS:

**COMPACT DESIGN**—Skillful engineering holds required floor area to a minimum.

**QUIET OPERATION**—The famous *wall-flame* burner is so quiet it can scarcely be heard.

**EFFICIENT PERFORMANCE**—Modern design makes this equipment outstanding for economical operation.

**COMPETITIVE PRICE**—Costs are low enough to satisfy the most strictly budgeted projects.

**FACTORY ASSEMBLY**—Unitized construction simplifies and speeds installation.

See our catalogue in Sweet's File for Architects and Builders



TRADE MARK REGISTERED

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

JUNE, 1951

163

## How to Spot Superiority

# Look for SPOT SASH CORD

**SOLID BRAIDED COTTON** — Highly resistant to wear

**MINIMUM STRETCH** Assures lasting balance

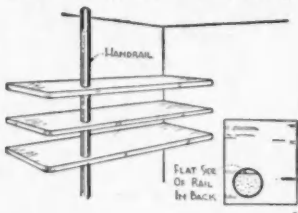
**PLIABLE** — for easy installation and noiseless operation

Look for the colored spots, our registered trade mark, your guarantee of quality. In new installations or replacements, recommend and use the best — strong, long-lasting Spot Sash Cord.

**Samson**  
CORDAGE WORKS  
BOSTON 10, MASSACHUSETTS

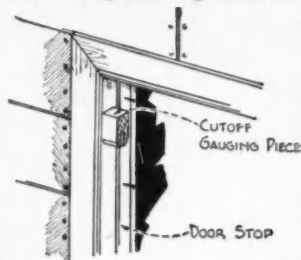


### Shelf Support from Scrap



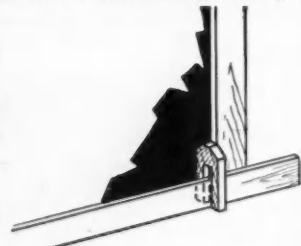
Sections of a 1-3/4 inch diameter wood handrail make an attractive shelf support. Keep the flat side of the rail to the back.—M. C. Miller, So. Williamsport, Pa.

### Door Stop Setting Method



Cut off the protruding end of the door side stile and use same to temporarily set the door stops on a door jamb.—M. C. Miller, So. Williamsport, Pa.

### Baseboard-Casing Gauge



This simple gauge made from a piece of scrap wood is handy in scribing the wood base to the door casing. Slot is cut in scrap to fit same over base.—M. C. Miller, So. Williamsport, Pa.

Higher Quality

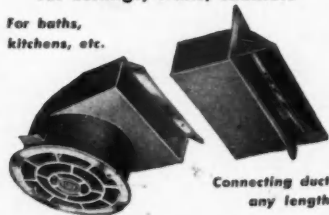


Lower Cost

### AUTOMATIC VENTILATING FANS

Models No. 1 (8"), No. 81 (10") for ceilings, walls, cabinets

For baths, kitchens, etc.



Connecting duct any length

Radia automatic ceiling exhaust fans are designed for quick, easy installation where wall space is limited or unavailable. They mount flush with ceiling between joints. Only the polished aluminum die-cast grille is visible. Quiet operation is automatic and ventilation is the natural way—UP. Model No. 1 needs only 6" joint space; moves 500 C.F.M. No. 81 requires 7 1/2" joint space; moves 650 C.F.M.

#### SHEPLER-RADIA PRODUCTS

Radia Wall Insert, Portable Electric Heaters • Automatic 8", 10" Wall, Ceiling, Flue Fans • Automatic Shutters • Fireplace Logs With Heat

**SHEPLER Manufacturing Co.**

1312 Sheffield St., Pittsburgh 33, Pa.

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



No. 5 BOSTROM Convertible Level Detachable Compass when desired

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

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for literature, prices, and name of our distributor near you.



Simple, Accurate, Durable, Complete

No. 4 BOSTROM Contractors' Level

**Bostrom - Brady Mfg. Co.**  
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## There's money in these walls for you

**BESTWALL\*** Grain Board gives your customers the beauty of wood paneling, plus the safety of fireproof gypsum. Two important sales points that put money in your pocket!

The appearance, color and graining of **BESTWALL** Wood Grain Wallboards give lifelike wood panel walls. They are easy to handle . . . go up quickly . . . save you time and labor. There's no time lost while walls dry out before decorating. The decoration is

\*Reg. U.S. Pat. Off.

already there—in selected reproductions of Ribbon Mahogany, Knotty Pine and Figured Aspen.

It will pay you in every way to use **BESTWALL** Grain Boards for realistic wood panel effects . . . whether you're remodeling a room or building a project.

Also available:

**BESTWALL**—the original gypsum wallboard  
(Ivory-faced)

**BESTWALL** Insulating Wallboard (Foil-back)



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Quality made Certain...Satisfaction Guaranteed

**CERTAIN-TEED PRODUCTS CORPORATION**

ARDMORE, PENNSYLVANIA

ASPHALT ROOFING • SHINGLES • SIDINGS

ASBESTOS CEMENT ROOFING AND SIDING SHINGLES

GYPSUM PLASTER • LATH • WALLBOARD • ROOF DECKS

ACOUSTICAL TILE    INSULATION    FIBERBOARD

## SPACE SAVER



Write  
today  
for  
literature

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.

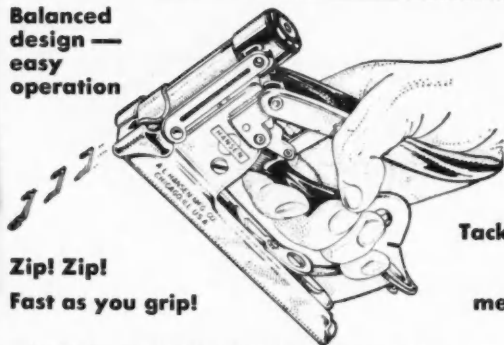
It sells houses faster. Home owners appreciate this useful added space. Alert contractors are using the Bessler Disappearing Stairway.

Easily assembled and installed.

Made in seven models.

**THE BESSLER DISAPPEARING STAIRWAY CO.**  
1900 E. Market St. Akron 5, Ohio

Balanced  
design —  
easy  
operation



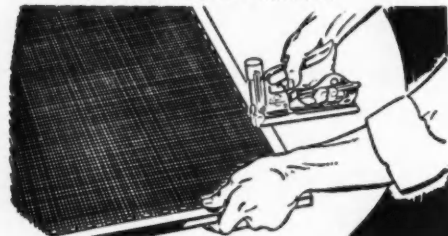
Zip! Zip!  
Fast as you grip!

**HANSEN —  
the Tacker  
with 1001  
uses —**

Tacks insulation,  
ceiling tile,  
metal lath, etc.

**With HANSEN in Your Hand —**

you can do all kinds of tacking and fastening jobs. Thirty-six different models. Eighty staple lengths. For screens, ceiling tile, insulation, metal lath, etc. Ideal for all types of building and construction.

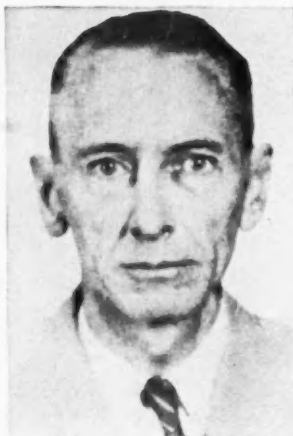


Tacks screens, too! Models made especially for screen tacking. Prongs on Tacker hook into screen, pull screen tight with one hand, for tacking in place. Many other uses.

Request Booklet

A. L. HANSEN  
MFG. CO.  
5059 Ravenswood Ave.  
CHICAGO 40, ILL.

## WANTED BY THE FBI



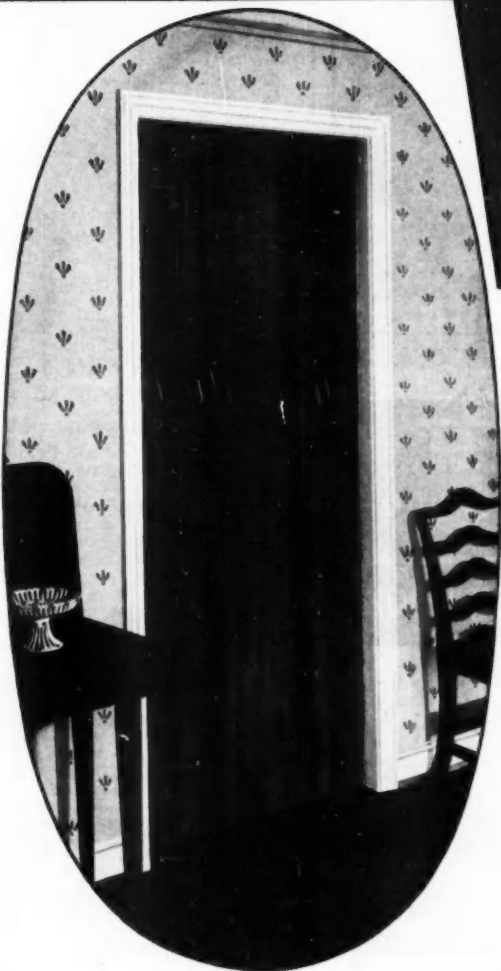
Leonard Caldwell Nelson, with aliases A. J. Allen, J. A. Bradshaw, Leonard Cowfil, Arthur Hayes, L. J. Nash, Lewis C. Nelson, Arthur Sibley, Leonard Wilson and others, who has been convicted for grand larceny and forgery, is presently a fugitive from justice. He has in the past worked in the building industry in the capacity of bookkeeper and sales manager, and is known to have defrauded two companies in the building industry. On September 1, 1949, a Federal Grand Jury, at Jackson, Mississippi, returned an indictment charging Nelson with violating Section 415, Title 18, U. S. Code, this violation arising out of the passing of a fraudulent check.

Description: Age 47, born August 20, 1903, Staten Island, New York; Height, about 5' 8"; Weight, 125 pounds; Build, slender; Hair, brown, graying; Eyes, blue or gray; Complexion, medium; Race, white; Nationality, American; Occupations, timekeeper, salesman, insurance and real estate broker; Scars and marks, nose appears to have been broken and is curved slightly to left side of face, small scar on right temple, small crescent shaped scar on second joint of left index finger, large irregular brown spot on right arm near elbow, may have some gold teeth, previously had two gold teeth upper left, one lower left and one lower right.

Any person having information concerning the location of this fugitive should immediately notify the nearest office of the Federal Bureau of Investigation or his local law enforcement agency.

# NOW! MENGEL MAHOGANY Flush DOORS

Available at  
less than many  
Domestic Woods!



"Believe it or not"—Mengel Flush Doors with faces of genuine African Mahogany can now be bought for less than comparable doors built with many conventional domestic woods!

Why? Because Mengel, drawing from its own vast logging concessions in the heart of Africa's Gold Coast, brings its fine Mahogany veneers to America in tremendous volume. Second, Mengel has the wood-working equipment and know-how to manufacture its top-quality doors *with mass-production economy and efficiency!*

Use the coupon to get full details about Mengel Mahogany Doors. Until you know the facts, you'll never appreciate the extra luxury, the extra *values* now immediately available for *any* kind of job.



THE MENGEL COMPANY  
Plywood Division, Louisville 1, Ky.

Gentlemen: Please send me full information on Mengel Mahogany Flush Doors—Hollow Core and Stabilized Solid Core.

Name \_\_\_\_\_

Firm \_\_\_\_\_

Street \_\_\_\_\_

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

The Mengel Company . . . America's largest manufacturers of hardwood products  
• growers and processors of timber • manufacturers of fine furniture • veneers •  
plywood • flush doors • corrugated containers • kitchen cabinets and wall closers

JUNE, 1931

167

## KOHLER ELECTRIC PLANTS

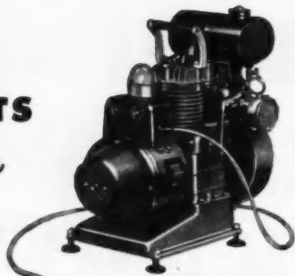
*Independent Source  
of Electricity*

Finish jobs faster with low-cost portable power—no hookup needed. Operates saws, drills, cutters, pipe threaders and other tools having universal (AC-DC) motors. Develops 1500 watts DC. Compact, weighs only 75 lbs. Handle for carrying. Two-wheel, rubber-tired hand truck available. Other models 350 watts to 15 KW. Write for folder 19-A.

Kohler Co., Kohler, Wisconsin. Established 1873

## KOHLER OF KOHLER

Plumbing Fixtures • Heating Equipment  
Electric Plants • Air-Cooled Engines • Precision Parts



MODEL 1.5MS,  
1500 watts, 115 volt DC.  
Manual control. Length 18",  
width 14", height 21".



## Dealer Conventions

(Continued from page 27)

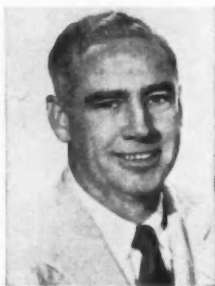
A new attendance record was set at this year's meeting—1,600. Eighty-seven exhibits filled all available space.

Named to head the group for the year ahead were Henry Hess, Pine Island, Minn., president; Clarence G. Scherer, Minneapolis, vice president; Leslie Olson, Mora, Minn., secretary; and G. A. Eddy, Swaledale, Iowa, treasurer. Edwin W. Elmer, Minneapolis, is executive secretary.

### TENNESSEE—GEORGIA

It was a joint convention this year for two important state groups, the Building Material Merchants of Georgia and the Tennessee Building Material Association, with the meeting taking place March 26-27 at the Municipal Auditorium in Chattanooga, Tenn. There were 571 registrations.

The association presidents, Fleming



FLEMING W. SMITH

Nashville

President of Tennessee Assn.

W. Smith of Tennessee and William R. Bedgood, Georgia, said that the idea of holding the conventions jointly had proved highly satisfactory, providing a wider choice of speakers, more exhibits and better attendance than otherwise would have been possible.

Featured speakers included Gates Ferguson, Celotex Corp. advertising director; Edward H. Libbey, NRLDA secretary; Don A. Campbell, Kentucky Retail Lumber Dealers Association secretary; Donald R. Moore, editor of Southern Building Supplies magazine; Lee Bartholomew, vice president, Southern States Iron Roofing Co.; and C. T. Parsons, editor, Southern Lumber Journal.

A social highlight was the annual banquet at the Read House which 400 persons attended. Toastmaster was Stanley Horn, editor of Southern Lumberman magazine.

### IOWA

Nearly 2,300 persons attended the 18th annual convention of the Iowa Retail Lumbermen's Association March 14-16 in Des Moines. Attendance was particularly satisfactory, association officers said, in view of snow storms and bad road conditions at the time.

(Continued on page 170)

## HOME BUILDERS-



Masonry fits easily  
around this metal  
Outdoor Fireplace

You add a lot of "sell" for  
only a little "extra" with an  
**OUTDOOR COOK-NOOK**

### DESIRABLE AS TODAY'S KITCHENS

Modern cooking conveniences have made many Americans "kitchen conscious." This interest generates desire also for backyard barbecue facilities. So, the Outdoor Fireplace, like the appliance-equipped kitchen, quickly attracts home buyers and tenants.

Builders are proving this from coast to coast. The Outdoor Cook-Nook is an added attraction in the plans of more and more homes. It offers you "extra" profits too!

### A PLEASANT WAY TO PROFIT

You make home entertainment easy and meet a popular need with Outdoor Fireplaces. Also you save time and simplify design and construction by using all-metal units as shown above. Write for details.

Send for builders' book of Outdoor Fireplaces

This 56-page book bulges with plans, specs, and tips on Outdoor Fireplace building. Sample copy FREE. Others 25c each.



**The Majestic Co., 300-C Erie St., Huntington, Indiana**

Typical  
Majestic Products  
Every Home Needs

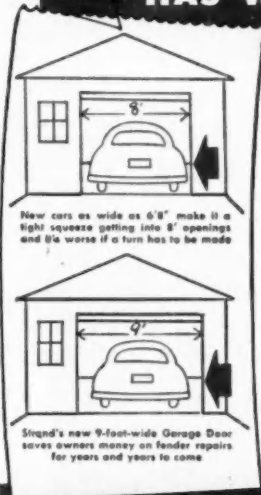


Nationally Known  
and Advertised  
for Over 40 Years





**Why STRAND'S NEW, 9-FOOT DOOR HAS WON NATIONWIDE POPULARITY**



Strand's new 9' x 7' Receding (track-type) door meets the big need for a handsome, durable, low-priced door for wider garage openings—to accommodate today's wider cars! So—it isn't surprising that this door has met *immediate, national* acceptance. Builders have been quick to see how they can give their customers tremendously greater value.

The cost of this larger 9-foot door (over a door only 8 feet wide) is negligible—factory list price is only \$7 more.

Strand's horizontal lines add new beauty to the garage. Rugged new X-type steel bracing adds to the great strength and rigidity of the one-piece all-steel door leaf. Strand doors are galvanized —with a heavy galvanized zinc coat for

rust protection—oxidized to provide an excellent base for paint; no priming coat needed.

The one-piece door leaf eliminates time wasted in field assembly of doors. Hardware, too, is factory assembled and packaged—and installed with simple tools. You save *plenty* of time on installation.

Strand doors cost you less—the logical result of standardizing big volume production. Strand doors are available in the following types and sizes: 8' x 7' Receding (track) and Canopy; 9' x 7' Receding (track) only, but will also be available in the Canopy type after July 15, 1951; 16' x 7' Receding (track) only. Order from your dealer, or mail coupon for information and dealer's name.

**STRAND**  
GARAGE DOORS

STRAND GARAGE DOOR DIVISION  
Detroit Steel Products Company  
Dept. AB-6, 2242 E. Grand Blvd.  
Detroit 11, Michigan

- Please rush detailed description of the new Strand all-steel Garage Door for 9' x 7' openings.  
 Please send full information about Strand Doors for 8' x 7' and 16' x 7' garage openings.

I am a  Builder  Dealer  Prospective Owner  Other

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_



helps you

## SELL & RENT FASTER!

*The "Lifetime"*

### SHAMPOO SPRAY

Every woman who sees a "Lifetime" Shampoo Spray permanently mounted on the wall of your model house or apartment, will want to live with its beauty and enjoy its convenience.

Home hair care, permanents, tinting, etc., have grown enormously recently, creating a demand (unsatisfied up to now) for a good looking, easy to use, professional shampoo spray. The "Lifetime" is the perfect answer—gleaming, stainless steel hose, triple chromium plated brass spray head and holder hook (holds spray in "no-drip" position when not in use) . . . instantly available . . . nothing to screw on, take off, get out of order or wear out . . . performance proven by years of use by professional beauticians AND, the "Lifetime" is sold with a written five year guarantee! The "Lifetime" is wonderful for the whole family—even the pup!

Write today for complete details—The "Lifetime" Shampoo Spray will pay off handsomely for you! SPECIFICATIONS: four foot hose (longer lengths available). Wall hook tapped out with 3/8" I.P.S. female inlet, hose screws directly to outlet. Water feed controlled via diverter valve on washbowl or bath tub fixtures, or separate controls for spray can be installed. Consumer list price \$13.50 (spray unit only). **SPECIAL DISCOUNT TO BUILDERS!**

#### Dealers:

Territories open—  
write for our  
liberal sales plan



**BRASS & BRONZE WORKS, INC.**

121 EAST 2nd STREET, MINNEOLA, L. I. N. Y.

# Save FUEL Oil!

CHANGE OVER NOW  
TO A MODERN, AUTOMATIC

## JOHNSON Oil BURNER!

If you have a wasteful, worn out burner . . . or a burner that fails to give you peak efficiency, you ought to switch over to an oil-saving Johnson Burner right now. Johnson Burners deliver more usable heat from every gallon of oil you buy. Ask your heating engineer. He knows Johnson's 48 year reputation for dependable, engineered-efficiency. You'll find a Johnson Dealer nearby.

THERE'S A  
JOHNSON BURNER  
FOR EVERY  
HEATING NEED

*Domestic  
Industrial  
Commercial*



### S. T. JOHNSON CO.

940 Arlington Ave.  
Oakland 8, California

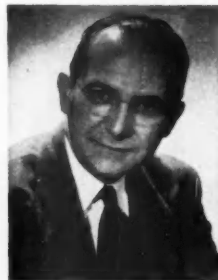
401 No. Broad Street  
Philadelphia 8, Pa.

## Dealer Conventions

(Continued from page 168)

The registration included 1,041 dealers from 1,176 Iowa yards. Exhibits at the meeting totaled 200.

Charles Gunn of Cedar Rapids was elected president for the 1951 term, succeeding W. W. Holman, Melbourne. Vice presidents for northern



Charles Gunn

and southern Iowa, respectively, are D. M. Peaslee, Jr., Laurens, and Thomas C. Fortune, Omaha, Neb. W. H. Badeaux, Minneapolis, Minn., remains as secretary.

Named trustees from the group's eight districts were: Roy C. Jansen Auburn; G. W. Richardson, Clarinda; Fortune: Peaslee; Fred Weber, Spirit Lake; C. J. Spahn, Dubuque; B. P. Jepsen, Dysart; Homer Denniston, Newton; Robert Duffus, Leighton; and James Weir, Mt. Pleasant.

#### NEW JERSEY

Mandatory referendum for public housing at local levels was urged by the New Jersey Lumbermen's Association at its 67th annual convention April 11-13



Adolph W. Jaeger

at the Hotel Berkeley-Carteret, Asbury Park.

Pointing out that 14,290 units costing \$170,000,000 are under construction or planned for New Jersey in addition to existing projects, the group adopted a resolution calling upon Governor Driscoll and the legislature to require municipalities to vote on any further projects.

(Continued on page 174)

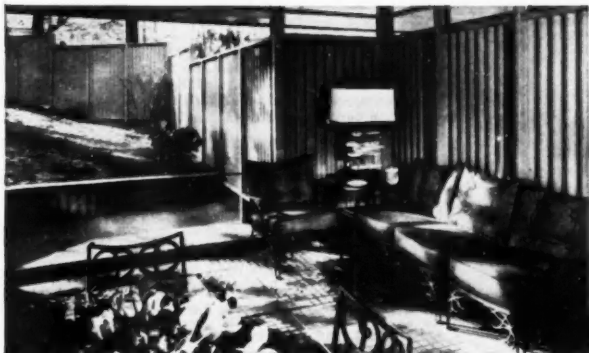
Look what they've done at Dobbs Ferry, N. Y.  
TO INSPIRE NEW DESIGN IDEAS!

Julius Gregory, Architect  
Robert Chuckrow, Builder

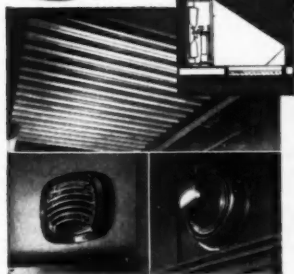


# IT'S THE '51 PACESETTER HOUSE

featuring **PACSETTING CAREY Products!**



**Here's Magic in Asbestos-Cement!** It's Careystone Corrugated asbestos-cement highlighting the charm and beauty of the PACESETTER House! A natural for interior and exterior walls, partitions, fences, planting boxes, garden sheds. Takes paint readily. Resists rot, decay, vermin, weather, fire!



### The Winning Fan Combination for Year 'Round Comfort!

A Miami-Carey kitchen ventilator—whisks away odors, smoke, greasy fumes. Keeps greasy deposits off walls, floors, furniture! In the attic—A Miami-Carey attic fan to draw out sun-scorched air; fill every room with cool, fresh night air. There's a whisper-quiet, economical, long-lived Miami-Carey fan for every ventilating and installation need.

SEE SWEETS BUILDERS FILE FOR COMPLETE IDEA-INSPIRING INFORMATION ABOUT THE COMPLETE LINE OF CAREY PRODUCTS FOR BUILDING AND REMODELING—OR ASK YOUR CAREY DEALER.



### Builders and Architects Agree!

Convenience sells! What is more convenient than glamorous, roomy Miami-Carey recessed towel cabinets, with full-length crystal mirror, sparkling glass shelves, and snow-white baked enamel on all-steel interior? Miami-Carey makes a complete line of bathroom beautifying cabinets and accessories for every budget and installation need!

THE PHILIP CAREY MFG. COMPANY  
LOCKLAND, CINCINNATI 15, OHIO

Canada: The Philip Carey Company, Ltd.,  
Montreal 25 P. Q.

From the House of Carey—

Bathroom Cabinets and Accessories • Ventilating Fans • Corama Siding • Corrugated Asbestos-Cement • Fire-Chex  
Asbestos Plastic Shingles • "Fire-Guard" and Rock Wool Insulation • Other Famous Products for Home, Farm and Industry

Architect Julius Gregory and the editors of House Beautiful selected many Carey products for the PACESETTER House . . . to help bring into reality their new ideas for contemporary design and construction!

Here before you are a few examples to show how well Carey products fit the PACESETTER pattern . . . create an atmosphere of luxurious beauty and comfort, with maximum convenience and safety.

Whether you specialize in design, new construction or remodeling, you will find the complete Carey line of client-satisfying products a ready source of inspiration . . . to bring your ideas into practical reality!

### FIRE-CHEX SHINGLES for Pacesetting Beauty, Protection!



Only Carey Fire-Chex come in rich solid colors, or striking shadow-blends that create roof designs copyrighted as "works of art!" Add husky 325 lb. construction for top resistance to wear and weather—plus Underwriters' Laboratories, Inc. Class "A" rating for fire-safety (only Fire-Chex have it) and you've got the Pacesetting shingle of the century!

\*Without asbestos underlayment

# Carey

## BOOK REVIEW



### BUILDING FOR INVESTMENT

By Clinton H. Cowgill. 5 1/4 x 9. 482 pages, 31 illustrations. Reinhold Publishing Corporation, \$7.00. See No. 33 in adjoining columns.

Don't be misled by the title of this new book. It is not just for the big real estate investor or for the investment banker, rather it was written to supply basic investment information that anyone in the building fields can read with profit. It might also be suggested that right now, since we are in a transition period, is a fine time to consider the words of advice offered in this readable and practical work.

Here, are set forth all the investment factors in the design, construction and remodeling of every type of building together with full explanations of the relationship between buildings and their locations in neighborhood, city and state. Here too are sections on building management, law, real estate, modernization, in fact, on every topic that has to do with the where and how of investment building. Because the book is well written it makes for good reading even if you are not directly concerned with the investment side of your work. You can never tell when you will be.

### THE PREFABRICATION OF HOUSES

By Burnham Kelly. 6 x 9. 466 pages, illustrated. Technology Press and John Wiley & Sons, Inc. \$7.50. See No. 35 in adjoining columns.

This is a volume that the publishers state presents vital facts for everyone concerned with the financial, managerial, or technical aspects of the building industry. This is probably true because as the building industry becomes more and more industrialized the successes and more notably the failures of the prefabricated house business can provide some interesting object lessons for the building industry as a whole.

The good thing about this book is that it covers the whole broad scope of the prefabricated house industry including management, research, procurement of materials, processing of materials, distribution and marketing of the finished product. In addition there are chapters on design, development of the industry, and the future of the industry. For members of the building trades who have a special interest in this subject, this is a book that can be well recommended.

### HOUSE CONSTRUCTION COSTS

By G. Underwood. 5 1/4 x 9. 314 pages. McGraw-Hill. \$4.75. See No. 6 in adjoining columns.

Estimating is one of the most popular subjects among building books, hence the appearance of this new estimating manual written for contractors. It is particularly useful in giving special attention to costs involved in employing bull dozers and trench hoes in excavating, in costs of placing ready-mixed concrete, and in figuring prices on installing forced hot air and hot water heating. Other chapters take each building operation in turn and project accurate estimates based on labor, time and current local costs. The book is well illustrated and contains enough detailed work descriptions to make it a handy instruction volume for students as well as for builders on the job.

# A SPECIAL

Here's an easy way to get new essential information that will help you increase your income. Every volume a standard work by leading authority. Remember—it's the informed builder who is the successful builder.

## 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. \$12.00.
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 of detailed house specifications (and item index), with spaces for inserting the pertinent description data. \$5.00.
6. **HOUSE CONSTRUCTION COSTS**. By G. Underwood. Estimating instruction book written for students but equally useful for carpenters and contractors. \$4.75.

## CARPENTRY AND BUILDING

7. **HOUSE CONSTRUCTION DETAILS**. Compiled by Nelson L. Burbank. Exact working guide on every detail of house construction from foundation to finish. Tells dimensions, materials, processes, step-by-step working methods. \$4.50.
8. **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. \$3.98.
9. **PRACTICAL JOB POINTERS**. More than 850 "tricks of the trade," short cuts, kinks and modern methods of doing all kinds of carpentry and building repair jobs. Cross-indexed for quick reference. Fully illustrated. \$4.00.
10. **FUNDAMENTALS OF CARPENTRY**. By Walter E. Durbahn. Complete house carpentry course in two volumes. Outstanding value. \$7.50.

## THE STEEL SQUARE

11. **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.
12. **SIMPLIFIED STAIR LAYOUT**. By J. Douglas Wilson and S. O. Werner. Basic work book presenting easily understood fundamentals of stair building. \$1.80.
13. **STAIR BUILDING**. By Gilbert Townsend. Fully illustrated explanation of every problem in design and construction of stairs. \$2.50.

# BOOK ORDER SERVICE—

## PLAN BOOKS

14. **HOUSES FOR GOOD LIVING.** By Royal Barry Willa, A.I.A. Handsome photographs and floor plans of 34 homes designed by one of the country's leading architects. \$4.00.
15. **SUNSET WESTERN RANCH HOUSES.** Authoritative book on the California ranch house, with thorough pictorial descriptions and ground floor and site drawings. \$3.00.
16. **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.
17. **PREMIER BOOK OF GARAGE PLANS.** Full-scale working blueprints and pictures of one and two-car garages. Not new, but only book supplying plans. \$.50.

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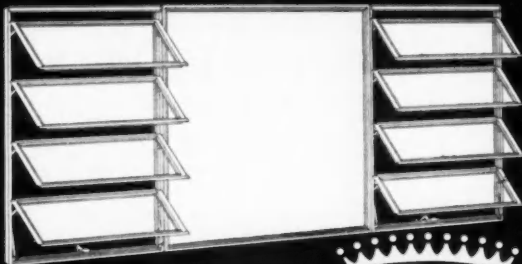
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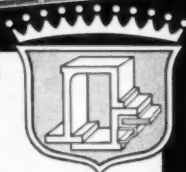
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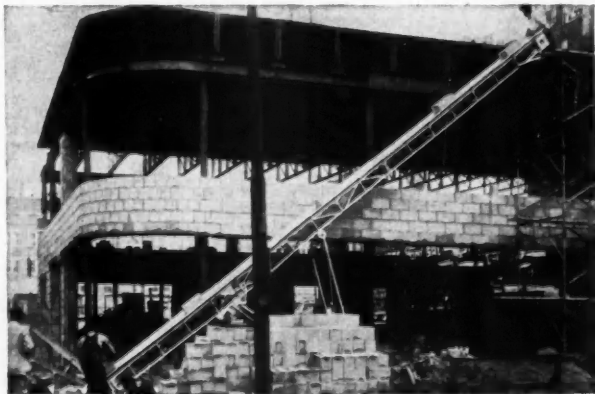
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Biggest news in material handling for contractors and builders is the new, low-cost, portable MULKEY ELEVATOR. Custom built and tailored to the requirements of the building trades . . . handles concrete blocks, bricks, mortar, sand, dirt, lumber, roofing, insulation, sacks, boxes, with ease. Strong as a bridge, yet one man handles and operates . . . easily trailed 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., approximate maximum 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!

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## Dealer Conventions

(Continued from page 170)

Adolph W. Jaeger, Union, was elected president of the association, succeeding E. Donald Sterner of Belmar. Other officers named to serve in 1951 are Arthur M. Mason, South River, first vice president; Aren Kaslander, Verona, second vice president; G.B. Roesler, Hackensack, treasurer; and Edward Frick, Newark, secretary-manager.

Guest speakers included Ormie C. Lance, secretary-manager of the National Woodwork Manufacturers Association; *American Builder* Editor Edward G. Gavin; Spencer D. Baldwin, past president of National Retail Lumber Dealers Association; Arthur Hood, editor, *American Lumberman*; and H.R. Northup, NRLDA executive vice president.

More than 500 persons attended the meeting, which opened with a testimonial dinner honoring Spencer D. Baldwin for 55 years of service in the lumber industry. Baldwin, former mayor of Hackensack, has headed both the state and national associations.

### MISSISSIPPI

As a new convention feature this year, four cities along with a prominent member from each were honored for past service by the Mississippi Retail Lumber Dealers Association.



**NEW PRESIDENT E. C. STOCKETT (right)** of the Mississippi association and Earl M. Jones, outgoing leader, both of Jackson.

They were: Vicksburg, R. F. (Bob) Evans; Meridian, Royce Kimbrell; Clarksdale, F. H. Cannon; and McComb, H. S. Prosser.

Approximately 350 persons attended the meeting at the Buena Vista Hotel in Biloxi. It was the group's 25th. There were 43 exhibitors and eight cooperating firms which did not exhibit.

Named president for the 1951-52 term was F. H. Stockett of Jackson. He succeeds Earl M. Jones, also of Jackson. Other officers are W. P. Kelly, Winona, first vice president; T. A. Higdon, Forest, second vice president, and E. B. (Ted) Lemmons, secretary-treasurer.

Convention speakers included Clay-

(Continued on page 176)



# SAVE UP TO 50% ON ROOF SHEATHING

...USE LESS SHEATHING...FEWER NAILS...LESS LABOR FOR APPLICATION



## Cedar Shingle Roofs cost less than you think!

Cost of materials *including decking* is the only right way to get true comparative costs on complete roofing jobs.

Figure it out for yourself! Compute the complete cost per square of roof, using any material that requires *solid* roof sheathing. Then compute the lower cost of using *spaced* sheathing with Certigrade cedar shingles.

Cedar shingles can be laid on spaced sheathing because of

their overlapping "bridging" construction, which increases overall strength of the roof. Spaced decking saves builders nearly 50% of the costs of sheathing, nails and sheathing application.

Although the unit cost of substitute roofing materials *before application* is sometimes lower than the unit cost of Certigrade No. 1 shingles, the *complete* Certigrade roof usually costs less!

On projects all over America, builders are discovering that, figured by the cost per square, *per year of life*, Certigrades are always your best buy.



### CERTIGRADE RED CEDAR SHINGLES

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# FOR LOW COST HIGH SPEED TACKING BUILDERS NEED BOTH



## HAMMER TACKERS

Top speed. Built for hard service and foolproof operation builders find the Duo-Fast Hammer Tackers the fastest and most serviceable—and so very easy and quick to load. Ideal for low cost, high speed tacking of insulation, building paper, felt, roof underdecking and dozens of similar tacking jobs.

## DUO-FAST



## GUN TACKERS

Accuracy with power and speed. In close, awkward places, overhead or in corners, Duo-Fast Gun Tackers make it easy to drive staples with pin point precision. Use this type stapler for easy,

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## INSULITE\* structural insulation

INSULITE is made from hardy Northern wood —best for strength, best for durability... best for making structural insulation board!



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## Dealer Conventions

(Continued from page 174)

ton Rand, Gulfport, Miss., editor, and W. W. Woodridge, secretary-manager of the Red Cedar Shingle Bureau. Another highlight was a panel discussion "To try to find out just where the retail lumber and building material dealer fits into the defense mobilization picture."

### SOUTHERN CALIFORNIA

E. C. Parker of Los Angeles was elected president of the Southern California Retail Lumber Association at the group's 34th annual meeting and trade show in the Ambassador Hotel, Los Angeles, April 4-6.

Attendance was about 1,600, 60 per cent over last year.

Other officers for the 1951-52 term are B. W. Bartels, Ventura, vice president; C. Gilmore Ward, Santa Ana, treasurer; and Orrie W. Hamilton, executive vice president.



E. C. Parker

Several nationally prominent speakers were on the program, including Senator Harry P. Cain, Washington; John Morley, foreign correspondent; and Dr. W. H. Alexander, Oklahoma City clergyman.

## Family Head, not Government Should Start Home: Lockwood

The responsibility of starting a home rests with the head of a family and not with his government, Rodney M. Lockwood of Detroit, former president of the National Association of Home Builders, told more than 500 private business men and public housing officials who attended a recent National Housing Policy Conference in St. Louis.

Lockwood charged there was no need for increased public housing, calling attention to the report of the 1950 census that there were more than 21,000,000 rental units in the United States renting at \$35 or less per month.

Other well-known speakers at the conference, called by St. Louis Mayor Joseph M. Darst, were Raymond M. Foley, Housing and Home Finance

(Continued on page 178)

AMERICAN BUILDER



# Complete CUSTOMER SATISFACTION

## BUILDS GREATER DEALER SALES

In every trading center in the U. S. (and foreign countries) Miracle Walls by TYLAC are building greater sales, and profits, for TYLAC Jobbers and Dealers — because they provide the utmost in Beauty, Economy and Permanence. The Hi-Baked Plastic Enamel surface is lustrous and mirror-smooth — it does not crack, craze, peel or chip — is easily installed on ceilings, flat or curved walls, arches or recesses. The Contour Bevel Score Line permits quicker and easier cleaning — an occasional wiping with a damp cloth quickly restores its original newness and lustre.



- BEAUTY
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A choice of 18 beautiful colors and 4 modern patterns makes possible endless varieties of decorative schemes to please even the most discriminating customer.

There is a wide need for TYLAC — in homes, stores, offices, hospitals, hotels, in fact, wherever interior walls are needed — either for new construction or remodelling — TYLAC Hi-Baked, Plastic Enamel surface walls combine every feature of superior excellence. Their beauty, their economy, their permanence make them the preferred interior wall panel coverings wherever they are shown. They have Eye Appeal and Buy Appeal — and that means more sales and extra profits for You!

Write us today for our liberal sales plan and many advertising and dealer helps.

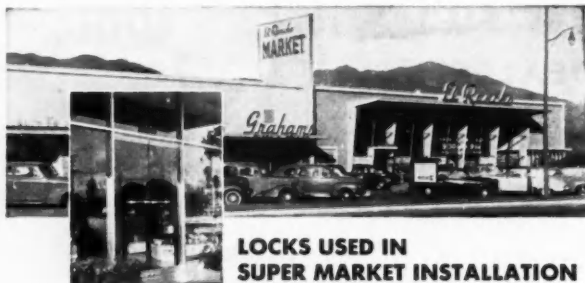
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# TYLAC COMPANY MONTICELLO, ILLINOIS

PIONEERS IN THE PREFINISHED WALL PANEL INDUSTRY

## ANOTHER ADAMS-RITE INSTALLATION!



### LOCKS USED IN SUPER MARKET INSTALLATION

The versatility of Adams-Rite Series 0161 Horizontal Locks for use on doors without stiles is well illustrated in the installation recently made by Rowland Crawford, Architect, in the "El Rancho" super market, Arcadia, California. These locks can be installed in any tempered glass door top or bottom channel. Four sizes, with single or double bolts and one or two cylinders.

Write for Catalog



SPECIFY  
*Evans*  
**"WHITE-TAPE"**  
IN 6 FT. - 8 FT. OR 10 FT. LENGTHS

**Quality features packed into every inch of this outstanding white tape:**

**the best WHITE TAPE made at the lowest price yet**

Snow-white blade with bold, legible, jet-black numerals and graduations. Graduated in 32nds for first 6 inches.

Sturdy die-cast case heavily chrome-plated, calibrated for quick reading inside and outside measurements.

Blade  $\frac{1}{2}$ " wide made of finest high carbon steel—tempered—Bonderized—enamelled—baked.

Blade replaceable in seconds—without tools—without even opening case. And Evans replacement blades cost far less.

Exclusive Evans automatic brake gives smoother push-pull action with absolutely no "creeping" of tape into case.

Underside is white too. Mark with ordinary pencil, remove mark with flick of thumb.

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7847 Prices higher in far west and Canada. Order from your tool distributor.

Makers of Evans Folding Rule and "The Folding Yardstick"

## Family Head

(Continued from page 176)

Agency administrator, William J. Levitt and Levitt and Sons, New York builders, and representatives of the AFL and CIO.

Delegates approved an expression of confidence in private enterprise's ability to cope with the defense housing problem, with public housing to be called on only if private business should find it economically unfeasible to build for the low-rental market.

## Honored at Rochester



**HONOR GUEST Frank W. Cortright**, National Association of Home Builders executive vice president, addresses members of Rochester, N. Y., Home Builders Association at recent annual banquet, highlight of year's social activities. Listener shown is Rochester President Mortimer F. Merrill. More than 200 members and guests attended

## Current Finance Facilities Probed at N. Indiana Seminar

How to take full advantage of existing financing facilities instead of waiting for enactment of the Defense Housing Bill was the subject of a recent seminar sponsored by the Home Builders Association of Northern Indiana in Hammond.

Approximately 200 home builders and persons in related fields attended the meeting.

Members of the discussion group, moderated by Francis L. Wilson of Hammond, were: A. C. Eggert, assistant state director; Joseph F. Berger, chief underwriter; and Samuel Ruble, chief architect, all of the Federal Housing Administration; Nathan Manilow, National Association Home Builders, treasurer and chairman of the committee on mortgage finance; and Martin C. Huggert, executive vice president of the Chicago Metropolitan Home Builders Association, with which the Indiana group is affiliated.

Manilow gave a report on recent Washington conferences between industry leaders and government officials.



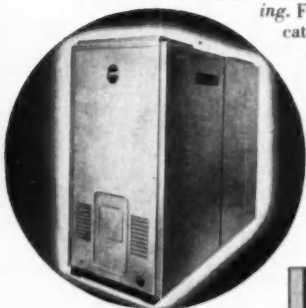
## Now you can do something about the weather

This is how you can help your buyers obtain *complete* comfort indoors, day and night, through *all* the seasons.

Install Bryant *All-Weather Conditioning* for refreshing summer cooling . . . automatic gas heating in winter . . . stimulating air circulation all the year . . . and *independent, automatic control of humidity* that eliminates that cold, "clammy" feeling.

The Bryant *All-Weather Conditioner* is designed for ease of installation and maintenance. All basic equipment and controls are concealed within a single, compact steel jacket. Cooling system, using safe, odorless Freon F-12, meets all code requirements. *Hevigage Heat Exchanger* and built-in draft diverter of heating component are porcelain-enameled for extra long life. *Five* different safety devices throughout the unit provide complete protection.

Build more *value* and *livability* into your houses with Bryant *All-Weather Conditioning*. For application data and specifications, contact the Bryant Distributor in your locality or write direct, Bryant Heater Division, Dept. 83, Affiliated Gas Equipment, Inc., 17825 St. Clair Ave., Cleveland 10, O.



Bryant Model 576 All-Weather Conditioner. Made in 1½, 2 and 5-ton cooling capacities. Gas heating inputs from 100,000 to 200,000 Btu per hour, for use with all gases.

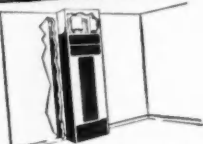
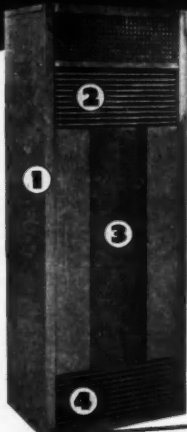
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ALL-WEATHER CONDITIONING

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## H.C. Little OIL WALL FURNACE

SOLVES SMALL HOME HEATING PROBLEM



Installed in partition wall—  
Saves valuable floor space—  
Heat discharge both sides—

1—FURNACE is 79" high, 20" deep, 30" wide. 2—WARM AIR discharge grilles, 10 1/2" x 26", both sides. 3—RADIANT PANEL, 12" x 44 1/2", one side. 4—COLD AIR intake grilles, 10 1/2" x 26", both sides.

**IT LIGHTS ITSELF!**—Operation is fully automatic, with patented H. C. Little electric ignition and controls (manual control also available).

**LOW COST FURNACE OIL** is used by the patented H. C. Little burner.

**AMPLE CAPACITY** for homes in colder climates...65,000 BTU hourly heat OUTPUT.

For full information, write Dept. AB-6

**H.C. Little**  
Burner Company

SAN RAFAEL, CALIF.

Factory Representatives in 18 Cities

## Seek New Housing Sites In Detroit Slum Project

The Builders Association of Metropolitan Detroit, in connection with the city's slum clearance program, has organized a drive to find sites on which to build low-rental and moderately-priced for-sale housing for displaced families. Frederic W. Gerhardt, newly-elected president has announced.

Rodney M. Lockwood, local director and past president of the National Association of Home Builders, is chairman of the Detroit Builders' slum clearance committee.

## Wood Preservers' Group Meets in Chicago

Rot-proofing and flameproofing by improved commercial procedures were major discussion subjects at the recent 47th national meeting of the American Wood-Preservers' Association at the Stevens Hotel, Chicago. Detailed reports were given on methods of evaluating chemicals and procedures for impregnating various woods.

Other discussions included drying by advanced solvent-vapor and improved kiln procedures, plywood and laminated members, decay and termite protected wood, flameproofing wood and its application to residential and industrial construction.

## Dayton Association Has Builders' Show

The 1951 Builders Show sponsored by the Montgomery County (Ohio) Builders Association was held at the Fairgrounds Coliseum in Dayton April 14-20.

Arrangements were made by the group's show committee, consisting of Gene Kreusch, chairman, Lou Zeiger, Sam Davis, Paul Lapp, Lee Charles and Mel Kimmey.

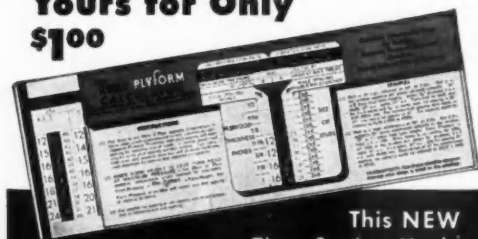
An outstanding feature was Ernest Warther's exhibit of hand-carved locomotives and a working model of a rolling mill. The models are valued at \$500,000, show officials said.

## Texas Association Urges Employment of Reservists

In keeping with policy of the national association, the Texas Panhandle Home Builders Association has made the following pledge: "We will employ members of the Reserve Corps of the Army, Navy, Marines and Air Force, even though they may be subject to call to active duty. We urge employers in all industries to give consideration to the employment of Reserve Corps members."

An emblem calling attention to this policy is being used by association members in their advertising and correspondence.

## Yours for Only \$700



## This NEW Time-Saving Keely PLYFORM CALCULATOR

SAVE time designing and building forms of Plyform, the concrete form grade of Douglas fir plywood. Handy slide-rule calculator gives construction data, based on hourly rate of pour. Included is booklet, "Design Assumptions for New Keely Calculator." Clip coupon—now!

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Offer good  
in U. S. only.

Please send me Keely Plyform Calculators.  
I enclose \$1.00 each to cover costs.

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

Also please send me, at no cost, copies of "Concrete Forms of Douglas Fir Plywood", and "Handling Plyform".



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**1,100**  
*National*  
**HOMES**

*Aerial view of Mt. Vernon Park, the remarkable 800-home project of Ralph Shirmeyer at Fort Wayne, Ind. 100% National Homes.*

*Ralph L. Shirmeyer, Inc.*

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National Homes Corporation  
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Dear Jim:

We take great pride in being a pioneer dealer for National Homes. We have built more than 1100 National Homes, 800 of which are located in Mount Vernon Park, which is our largest subdivision. We are very pleased to say that, through the years, our experience with National Homes has been satisfactory in every way, especially from the point of view of both service and quality.

National Homes have been firmly established in the Fort Wayne housing economy and command a very enviable position in the opinion of the public.

Cordially,

RALPH L. SHIRMEYER, INC.

*Ralph*  
Ralph L. Shirmeyer  
President

**Pioneer Dealer says: "Service and Quality have always been Satisfactory in Every Way"**

Ralph Shirmeyer of Fort Wayne has won solid success in a highly competitive market by concentrating on National Homes — the line that offers most to dealers, most to buyers. Read his letter below.

Our dominant national advertising campaign has already pre-sold your market on famous National "Thrift Homes". If it is still open for dealership, write or wire us today!

**NATIONAL HOMES CORPORATION**  
Lafayette, Indiana

EASTERN PLANT: HORSEHEADS, NEW YORK

•  
Have you seen our ads on "Your National Home Magazine"? It's a big 64-page magazine devoted to helping dealers sell National Homes. Nothing like it in the industry. Send 25c for your copy—it will be a revelation!  
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**NATION'S LARGEST PRODUCERS OF PREFABRICATED HOMES**

FOR DEPENDABLE, LOW-COST

# protection

WHEREVER YOU BUILD, USE



SISALKRAFT used for closing-in.

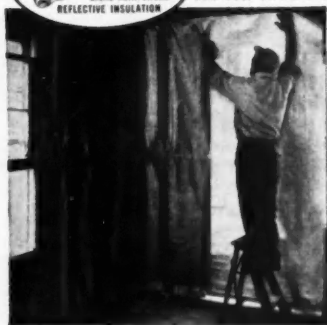
You'll find it pays to use SISALKRAFT in every possible way on every job... for closing-in... for sheathing-paper... under all concrete slabs... under all flooring... under stucco... as a moisture-vapor barrier... for curing and protecting concrete... and many other uses.

SISALATION Reflective Insulation combines insulating and moisture-vapor barrier qualities in one low-cost quality product.

More contractors and builders use SISALKRAFT Products than any other similar material.



SISALATION is easy to apply, effective, low-cost insulation.



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THE SISALKRAFT CO.

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New York 17, N. Y. • San Francisco 3, Calif

## All-American House ...

(Continued from page 16)

heating. Eighty-seven per cent have one bathroom, and 12 per cent more than one bathroom.

Fifty-seven per cent of the new houses in the Chicago area were operative-built for sale or rent; 20 per cent were owner built, and 23 per cent were contract built. Fifty-four per cent were bought by World War II veterans. The average purchase price was \$13,105. Only five per cent were bought without down payments. The average down payment was \$4,020. The average monthly payment is \$63.25. Sixty-eight per cent of the buyers had annual family incomes of less than \$5,000.

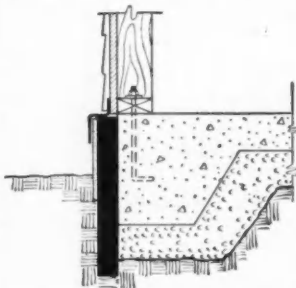
It can be seen that weather conditions usually determine the design of houses, the material used, and the types of heating systems. To these factors can be attributed the variance in cost.

Prices of new houses in 1951 will, of course, be 10 to 20 per cent above prices prevailing at the time of the survey. Regulation X will eliminate no down payments, affecting some areas to a larger extent than others.

## How to Cure a Cold Floor

Cold, uninsulated concrete slab floors in basementless houses can be remedied even after the house is built, according to the Architects' Sales Department of the Celotex Corp.

Procedure recommended is to place two layers of 1-inch Flexcell board, a cane fibre board saturated with an



asphaltic compound, around the slab, as shown in the accompanying drawing. To provide space for application of Flexcell, trench around exterior to 12 inches or more below grade.

Flexcell is adhered to face of asphalt-primed concrete with cold asphalt mastic or hot asphalt. Metal flashing is recommended over the top. For protection above grade and neat appearance, asbestos cement board is cemented against the Flexcell.



## READYBUILT FIREPLACES

(Reg. U. S. Pat. Off.)

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.

## 10 Day Trial... No Deposit

### TRY A WARREN-KNIGHT CONVERTIBLE LEVEL

for 10 days on your job with no expense or obligation to purchase. Sturdier construction, higher power telescope, and exclusive patented features assure greater accuracy and lower operating costs. Save time and make more money by using a Warren-Knight Level.

(Patented)



The Gold Medal Level Model No. 40 \$200.00

Immediate delivery

WARREN-KNIGHT CO.  
136 N. 12th St., Philadelphia, Pa.  
Send new bulletin F-16 describing W-K Convertible Level, Model No. 40, and giving details of free trial offer and easy payment purchase plan.

Name .....  
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# 1 Douglas Fir doors

For Real Beauty...  
and Quality, too—It's Grade-  
Marked Douglas Fir Doors

\*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 Osgood Company**  
Tacoma, Wash.



There's beauty you can see . . . quality you can trust in quality manufactured\* Douglas Fir, Western Hemlock, and Sitka Spruce doors.

Architect-designed for beauty, FDI-Inspected doors are produced in 21 entrance door designs, 36 interior door designs, several garage door designs. Cape Cod, Monterey or Contemporary — there's a style, size and grade to fit exactly every architectural treatment . . . blend with every decor.

Performance-engineered for perfect alignment, perfect balance . . . doors bearing the FDI hallmark of quality are manufactured and inspected in strict accord with rigid Department of Commerce quality standards.

**FDI-A**

**FDI-B**

**FDI-BP**

**FDI-C**

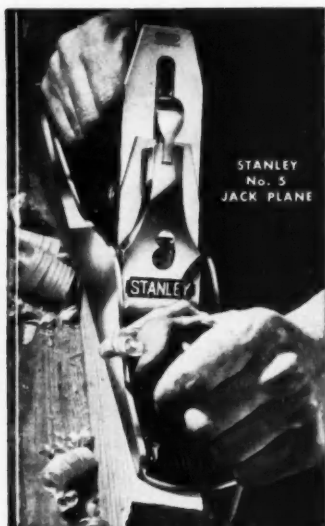
**FDI-MR**

Genuine FDI-Inspected doors are stamped with official industry grade-marks shown at left. These marks are far more than grade identification. They are your assurance of uniform quality and craftsmanship. Furnished at buyer's request are notarized Certificates of Inspection attesting manufacture and inspection in accord with U.S. Commercial Standard C573-48 or C591-41.

**Fir Door Institute**

Tacoma 2, Washington





STANLEY  
No. 5  
JACK PLANE

## STANLEY PLANES

Make the most  
of your skill

The choice of 9 out of 10 woodworkers, Stanley Planes feel right . . . work right. These planes—and many other types of planes—are part of the complete line of Stanley Tools. When you buy tools, look for this famous trade-mark. Stanley Tools, New Britain, Conn.

No. 9½  
Block Plane



No. 78  
Rabbit Plane



THE TOOL BOX OF THE WORLD

**STANLEY**

Reg. U.S. Pat. Off.

HARDWARE • TOOLS  
ELECTRIC TOOLS • STEEL STRAPPING • STEEL

## Vitrified Clay Pipe Heating System

A unique installation of vitrified clay pipe comprises the heating system of a recently completed building that houses the garage, showroom and office facilities of Spot Motor Co., automobile dealer of Akron, Ohio.



**DISTRIBUTION of heat is through vitrified clay pipe under-floor ducts. The system required 250 feet of clay pipe and fittings**

Distribution of heat in the building is through a line of vitrified clay pipe under-floor ducts. The main duct starts with 24-inch diameter pipe at the furnace, reducing to 12-inch pipe at the farthest perimeter in order to equalize heat output. The whole system is composed of 250 feet of extra-strength clay pipe and fittings, made by The Robinson Clay Products Co. of Akron.

Branches of 8-inch clay pipe issue

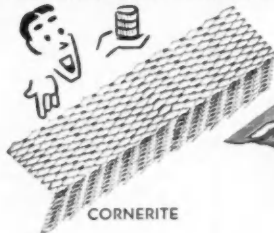
from the main ducts and connect with 17 registers situated in the floor at the base of showroom windows. Louvre controls on the registers permit adjustment of heat output and make it possible to direct heat flow against the windows to defrost them in winter. Heat is supplied by two forced air, gas-fired blower units.

Trench depths for the heating system vary from 24 to 42 inches. The pipe is cradled in sand and backfill was tamped to a height of six inches over it. Connecting joints were made with hemp packing and mortar. Wire mesh reinforcing was laid over the backfill and floor masonry poured to depth of six inches.

A clay pipe system is also used to dispose of monoxide fumes in the service garage. Clay pipe monoxide vents connect with lifts, pits and repair stations and carry off exhaust fumes through outlets in the roof. This system required the use of about 300 feet of 4- to 10-inch extra strength clay pipe and fittings.

The building architects said that vitrified clay pipe was selected for the heating system and the air-vent system because of its non-corrosive qualities, ease of handling, and resistance to "buckling."

**GOOD OPPORTUNITY**  
to make more money



CORNERITE



CORNER BEAD

● Bostwick Corner Bead and Cornerite have been "job-proven" to be the most economical to install. Less fuss means extra profit opportunity for you. See for yourself why thousands of contractors have preferred Bostwick for years. Ask your dealer.

**THE BOSTWICK STEEL LATH COMPANY**  
103 HEATON AVENUE . . . NILES, OHIO



# NEW!

## "New Design" Homes



### eastwood

Two bedroom home modern as this moment designed by Robison Heap noted contemporary architect.



### crestwood

Three bedroom home for more and better living designed by Karl R. Schwarz and Forrest R. West—A. I. A.



### archwood

Four bedroom home another first in better housing by nationally known contemporary architect Oscar Stonorov—A.I.A.—A.I.P.

# Peaseway

homes

REG. U. S. PAT. OFF.  
— • — first in better living.

- NOW for the first time you can offer prefabricated contemporary design homes. Designed by noted architects—Oscar Stonorov, Schwarz and West, and Robison Heap.

Now's the time to get the story on these Peaseway "new-design" homes—first contemporary designs for folks who want modern precision built homes.

And now's the time to learn about the Peaseway Plan—an assured method to increase your profits on homes by building more homes faster, turning over your capital more often, reducing your costs and building homes that sell immediately.

Peaseway homes give folks what they want—quick construction and delivery; floor plans to suit the needs of every size family, every pocket-book, and every taste from Cape Cod to Contemporary; quality, durability, live-ability—built-in to assure owner satisfaction. All this at established costs.

If you're struggling along now, building only a few houses each year—or if you're building many houses each year—for but little profit, decide now to investigate the Peaseway Plan. See for yourself the great variety of designs exclusively yours if you become a Peaseway franchise dealer. A limited number of these valuable franchises are available to builders east of the Mississippi.

Send today—just a few lines on your letterhead asking for the Peaseway Plan. Within a few days you'll receive the information that will point the way to bigger profits for you. So don't delay—send today.

WRITE TO John W. Pease:

**THE PEASE WOODWORK COMPANY**  
CINCINNATI 23, OHIO

"In business in Cincinnati since 1893"

# VENTO STEEL Casement WINDOWS



## They Give-

### Effortless Operation

Gracefully designed, easy-moving Roto or Lever type operators and locking handles, as specified. Extension type hinge for ease in cleaning.

### Weatheright Seal

Double contact construction gives snug fit. Positive cam action locking handle insures weathertight seal around perimeter of the ventilator.

### Lasting Service

Solid steel sections; all corners electrically welded; cleaned and prime painted. A permanent installation.

Write us for full information, also facts about Vento steel basement, utility and barn windows, Vento steel lintels for cost-saving block construction.

**VENTO** Steel Products  
CO., INC.

247 COLORADO AVE. • BUFFALO 15, N. Y.

## Americans Not Interested In Appearance of Cities, Noted Architect Charges

Americans sorely need to take more interest in the appearance of their cities, Richard J. Neutra, F.A.I.A., internationally famous architect, told members of the Chicago Chapter of the American Institute of Architects at their regular monthly meeting, at Chicago.

Neutra, who is considered by many members of the architectural profession as the second most famous architect in this country (Frank Lloyd Wright being picked for the number one spot), spoke on "You—Your City—Your Architect." He devoted much of his discussion to the unkempt condition of Chicago and the continued tolerance of prevailing slum areas, contrasting not only Chicago but other major cities of the United States with cities of comparable size in Europe and South America and chiding Americans for their lack of civic pride.

Color slides were shown of public buildings, street improvements, private buildings of multiple apartment structures in South American cities, Stockholm, Sweden, Helsingfors, Finland and Copenhagen, Denmark.

The examples indicated a spirit of progressiveness, both in design of structures and the will to complete the projects undertaken, in spite of limited budgets. Neutra said that "the poverty-stricken cry of the heads of the U. S. cities appear ludicrous in the light of the fact that this country is the most prosperous nation in the world."

Neutra told the Chicago group that American architects lack imagination and "push" in their work. He said that members of the profession need to counteract practicability with imagination.

## Paper Firm Officials

Minnesota and Ontario Paper Co., Minneapolis, Minn., has announced through its president, J. B. Faegre, that all present directors were re-elected at the annual meeting of the company, held recently. The directors are J. B. Faegre, president; C. T. McMurray, executive vice president; Clarence Larson, vice president in charge of production; R. D. Main, treasurer; H. A. Hull, secretary; E. A. Johnston, comptroller; and C. O. Holmer, assistant treasurer.

Your Best Community Promotion  
NATIONAL HOME WEEK

## STRAIGHT-LINE RECIPROCATING ACTION GUARANTEES SCRATCH-FREE FINISHES

14,400  
SANDING  
STROKES  
PER MIN.  
•  
EASY  
ONE-HAND  
OPERATION  
•  
21 SQ. IN.  
SANDING  
SURFACE



Contractors and builders find this powerful, fast cutting Dremel Sander the perfect answer to finer finishes on dry-wall joints, plaster, doors, woodwork, siding and other exterior surfaces. Its straight-line sanding action leaves no marks, swirls or cross-grain scratches. Light weight of only 5 lbs. and easy one-hand operation makes Model 2000 ideal for continuous use. Added stroke and extra power—plus 21 sq. in. of sanding surface—assure rapid production. Only 2 moving parts; never needs oiling; dustproof; overall size 3 1/4" x 4 1/2" x 7"; uses 110-120 V., A.C. Fully guaranteed.

IF YOUR DEALER CANNOT SUPPLY  
SEND ORDER DIRECT TO FACTORY

**DREMEL MANUFACTURING CO.**  
2414 18th Street • RACINE, WIS.

AMERICAN BUILDER

# RAYNOR

## RAISED PANEL Door

Truly the Outstanding Door for **Economy-Beauty and Profit!**



\* At last a door that requires no special paint job or extra equipment to make it different!

Raynor Raised Panel Door offers door users beauty and individuality built right into the door!



\* Raynor Raised Panels are machine routed from 1" stock and built into the door sections at the factory! With wide selections of panel designs and patterns available, this door creates it's own demand.



Sample RAISED PANEL DESIGNS



### RAYNOR MFG. CO.

River Street, Dixon, Ill.



**BOSTITCH T5 TACKERS SAVE YOU TIME, MONEY AND WORK...** on cornerite, ceiling panels, insulation, metal-lathing, and other jobs. It's easy to see why. *Tacker positioned... trigger squeezed... staple driven home!* It's as quick and easy as that. One-hand operation. No marred edges... no bruised fingers... no fumbling for nails. Give Bostitch T5 Tackers a trial on your next job... and see how much you save.



**FUSSY JOBS MADE EASY!** Bostitch T5 Tacker drives staples up to 9/16" long, within 1/16" of edges or inside corners, on jobs that call for a free hand for stretching, positioning or holding the work. Works just as well in either hand.

**FAST, MEAT, SECURE!** That's why Bostitch T5 Tackers are now standard equipment for putting up ceiling panels. No other method is so speedy. Workers don't soil the surface, nor mar the edges. Staples hold fast. A test will convince you.

**LOOK INTO BOSTITCH.** Get more facts about these easy-to-load, easy-to-use Bostitch self-feeding stapling tackers and hammers. They can save work, time, and money for you. Fill in the coupon below.

#### ATTACH THIS COUPON TO YOUR LETTERHEAD

**BOSTITCH**, 562 Mechanic Street, Westerly, Rhode Island  
I'm interested in more information about time-saving, cost-cutting Bostitch machines for applying:

- Insulation     Paneling     Building Paper  
 Roofing     Metal Lath and Cornerite

List other applications: .....

Name ..... Title .....

Firm .....

Address .....

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

**BOSTITCH**®  
AND FASTER  
fastens it better, with wire

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

## LEATHERBACK for quality ... at lower cost

Leatherback **ALL-PURPOSE BUILDING PAPER** . . . a high strength asphalt impregnated building paper, for all building construction needs. Meets Federal Class D requirements. It's easy to handle and easy to install. Uniform high quality in every roll.



### ★ Leatherback REFLECTIVE STORM BLANKET . . .

the 3-in-1 insulating material. Insulates by reflecting radiant heat . . . is a flame barrier when properly installed . . . and is a moisture barrier paper meeting Federal Class A specifications. Packaged in carton for protection of roll.

★ Write for Complete Information

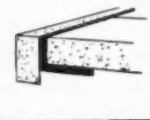
**PROTECTIVE PAPERS, INC.  
UNION . . . ILLINOIS**

## 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 Sill Vapor Seal, Glass Building Block Seal, Joint Filler, etc., in every type of construction.



Write for complete details, illustrated circular and samples.

**SERVISIZED PRODUCTS CORP.**  
6051 W. 65th ST., CHICAGO 38, ILL.

## More Picture Windows in Kitchen, Producer Says

Picture window installations in kitchens are on the increase, according to a glass manufacturer's recent sales survey.

Harry Ives, manager of Thermopane sales for Libbey-Owens-Ford Glass Co., said the survey indicated



**LARGE UNITS** of double glass increase kitchen appeal of home in Glenview, Ill.

that there are three standard sizes most often used in kitchens. They vary in width from three to slightly more than six feet and all are about three feet in height.

Ives said "Popularity of these particular standard size insulating glass units indicates a definite trend toward brightening up the kitchen and often these same sizes are used in the bedroom where the ribbon-type window is placed well up on the wall to allow plenty of shelf and furniture space beneath."

## 300 Attend Armstrong Distributor Meeting

More than 300 persons including 124 representatives of 66 distribution firms attended the fourth annual convention of building materials wholesaler distributors of the Armstrong Cork Co. April 6 in Lancaster, Pa.

Studies conducted during the two-day meeting included government controls, sales aids, warehousing, accounting and general management.

C. J. Backstrand, Armstrong president, keyed the meeting with a talk on the difficulty of managing a business under current abnormal conditions. He said that management "must not be thrown off its course by short term events and, above all, it must keep planning for the long-range future. . . . One of the greatest hazards that we all face during a period like this is a temptation to allow every crisis to provide another excuse for a failure to plan ahead."

Backstrand said that Armstrong studies of wholesale operations among wholesale establishments would be beneficial for all.

## We CAN deliver

# SUN-SASH

### LOUVRE WINDOWS

IMMEDIATELY &  
CONTINUOUSLY



. . . and they cost less than almost any other window. (from \$3.99 up . . . fit any opening . . . simple installation.)

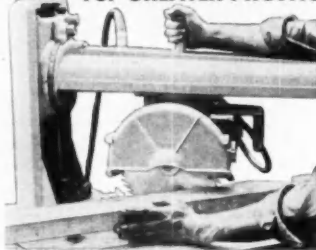
**This coupon can give you the amazing SUNSASH story!**

Builder  Architect  Home Owner  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City & State \_\_\_\_\_  
**SUNSASH CO., 38 Park Row, N. Y.**

## USE THE

# WALLACE No. 1 RADIAL SAW

### For GREATER PROFITS



## Portable Powerful Accurate

Designed for the building trade, this fast-cutting, versatile saw cuts rafters without marking or handling material twice. It can save you from \$200 to \$400 on small home jobs. You owe it to yourself to get full information on the speedy, accurate, cost-saving WALLACE NO. 1.

Send Coupon Today For Free Bulletin

Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
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**J. D. WALLACE & COMPANY**  
 136 So. California Ave., Chicago 12, Ill.



**ONE** low-cost unit  
for **ALL** standard  
sliding door installations

TRADEMARK



Here's the new, all new sliding door hardware you've been waiting for. Saves you more than 50% of normal installation time, with the simplest roller and track unit ever devised. Now installation will be smooth, effortless and money saving. Slide-All ranks highest in quality, yet it's priced low . . . backed by a lifetime guarantee. You owe it to your building budget to see Slide-All above all sliding door hardware.

- Average installation time — only 15 minutes
- Overhead extruded aluminum track will carry any weight door
- Two types of track cover all sliding doors, including ¾" and 1¾" thickness
- Simple adjustments for smooth, quiet operation which permit the doors to be raised or lowered one inch
- Immediate shipment guaranteed on all orders



**Mail Today**  
for Complete Information

**AMERICAN SLIDING DOOR HARDWARE CORP.**  
2084 First Avenue, New York 29, N. Y.

Please send me, without obligation or cost, a copy of your Sliding Door Hardware Catalog. I am interested in SLIDE-ALL Sliding Door Hardware as a—

- Dealer  Building Contractor **A-1**

Name (Please Print) \_\_\_\_\_

Address \_\_\_\_\_

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



**Contractors and Builders**  
Save Time and Money with **Lo-"K"**

Because of its extremely light weight (only .85 lb. per cubic foot) and consequent ease of handling, Lo-"K" installs faster and more economically than practically any other type of insulation on the market.

At the same time, because of its lower "K" factor or thermal conductivity (only .24 for one inch) it provides from 4% to 36% more insulating efficiency.

Lo-"K" is flameproofed—resists moisture, rot, mildew and vermin—does not sag, settle or deteriorate with age—contains no harsh particles that irritate the skin.

Lo-"K" costs less because it gives more, performs better. Ask the contractor or builder who uses it.



Available in either open or enclosed blanket type and with aluminum foil or asphalt Kraft paper vapor barrier.

INSULATION DIVISION

**LOCKPORT COTTON BATTING CO.**

Established 1870

Lockport, N.Y.

New York Office: 1407 Broadway



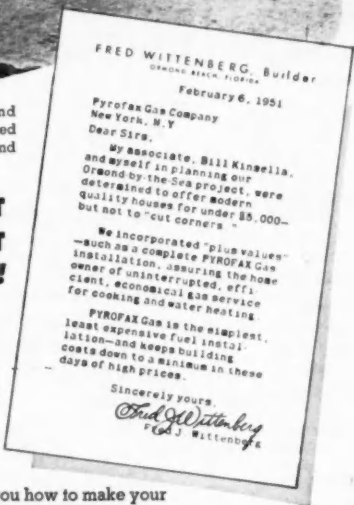
## Why Builder Wittenberg Picked "PYROFAX" Gas!



● All the houses in this Ormond Beach, Florida, project are equipped with PYROFAX Gas for cooking and water heating.

### BUILDERS... GET THE FACTS ABOUT "PYROFAX" GAS!

No matter where you build you can install PYROFAX Gas... no expensive wiring needed, no construction changes. PYROFAX Gas is piped in 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.



**Pyrofax**  
TRADE MARK

Superior BOTTLED GAS Service

For full information, write to Dept. AB.

**PYROFAX GAS COMPANY**

A Division of Union Carbide and Carbon Corporation

30 East 42nd Street **UCC** New York 17, N. Y.

The word "Pyrofax" is a registered trade-mark of Union Carbide and Carbon Corporation

### Make Business Paper Advertising Awards

Two of the top awards for excellence in advertising in the recent national contest sponsored by Associated Business Publications were won by E. L. Bruce Co., Memphis, Tenn., and the Tile Council of America, New York City.

Approximately 500 campaigns were entered in the competition. Twenty-



**FIRST AWARD** winner in Division I of business paper advertising contest: Holton C. Rush (left), president of Greenhaw and Rush, Inc., accepts for his agency and its client, E. L. Bruce and Co., both of Memphis, Tenn., from James G. Lyne, chairman of Associated Business Publications board and president of Simmons-Boardman Publishing Corp., publishers of *American Builder*



**ANOTHER FIRST** award winner, Tile Council of America, Roy W. Schwalke, right, accepts for the council and Gilbert W. Morris, account executive, for agency, Fuller and Smith and Ross, Inc., New York

two companies received awards, six of them top honors.

Presentations were made at the Pittsburgh University Club where the Industrial Advertising Council of Pittsburgh devoted a special session to the program. Winners were picked by 18 judges from the Pittsburgh area, executives in purchasing, production and advertising. Ernest T. Giles, vice president of Ketchum, MacLeod and Grove, Inc., was chairman.

# Specify shellac



*Wherever you enrich  
the wood grain*

INTERIOR DESIGNED BY MELANIE KAHANE

*Gives a satin-smooth natural finish to*

- Won't scratch or mar
- Will not darken with age
- Outwears other finishes

**FLOORS  
PANELING  
ALL  
WOODWORK**

As you set the stage for graceful living with natural wood, bring out the beauty of the grain with shellac ...the most durable, finest beauty treatment for all wood surfaces.

**shellac** is easy to apply, easy to maintain, dries fast, simple to retouch and keep beautiful.

Nationally Advertised

MAIL TODAY

SHELLAC Information Bureau

of the American Bleached Shellac Manufacturers Assn. Inc.  
65 Pine Street, New York 5, N. Y. **B6**

Please send, without obligation, "Standard Specifications on the Use and Application of Shellac".

Firm Name.....  
Address.....  
City.....Zone.....State.....  
Signed.....

JUNE, 1951

Start right...for a smart finish!



**PRETRIM**  
*Matched Face*  
**METAL MOULDINGS**

Add smartness to tileboard installations with top quality PresTrim! Matching face patterns assure perfect uniformity. Heavy gauge polished aluminum is acid and corrosion proof. Easy to install—wide flanges, continuous nailing grooves, convenient 8' or 6' lengths. Offer, too, PresTrim pre-finished Black Cap and Base Mouldings.



**PRESTILE**  
MANUFACTURING COMPANY

Makers of PresTile Plastic Finish Tileboard

WRITE!

PresTile Mfg. Co. • 5830 Ogden Ave. • Chicago 50, Ill.

Yes, we want to learn more about:

- PresTrim Aluminum Mouldings     PresTile De Luxe Tileboard

Your Name.....

Clip this memo to your letterhead and mail today!

*Say goodbye to the  
hard-to-get lead pan  
for Tile Showers*

## FIAT PRECAST TERRAZZO RECEPTORS



*Find Fiat precast receptors  
make a definite saving  
in building tile showers.*

**Save money . . . Save time . . .  
Make a better tile shower floor . . . . .**

*One piece slab construction gives a lifetime leakproof floor.*



**Available for prompt delivery  
See your plumbing contractor**

**STANDARD SIZES:**

**Square type 32" x 32" — 36" x 36" — 40" x 40"  
Corner type 36" x 36" — 40" x 40"**

The Fiat one piece precast receptor slab will not be affected by settlement of the building as would the old-fashioned "multi-

layer" construction of fill, lead pan, grout and tile. The rustproof metal receptor flange encases the tile walls making a leakproof connection.



**FIAT METAL MANUFACTURING COMPANY**

Three Complete Plants  
(Chicago area plant) Franklin Park, Ill.  
Long Island City 1, N. Y. Los Angeles 33, Calif.  
In Canada—Fiat showers are made by Porcelain and Metal Products, Ltd., Orillia, Ontario

**S. D. Black, Co-Founder  
Of Black and Decker,  
Dies in Baltimore**

S. Duncan Black, president of Black and Decker Manufacturing Co., died suddenly of a cerebral hemorrhage April 15 in Baltimore, Md. He was 67 years old.

Co-founder of the firm with Alonzo G. Decker 40 years ago, Mr. Black



S. Duncan Black

had continued as the active head until his death.

Mr. Black went to work at the age of 16 for the Rowland Telegraphic Co., then experimenting with the forerunner of the teletype machine. He started as tracer and advanced through the jobs of draftsman, designer, experimental engineer, factory superintendent and salesman.

Black and Decker was established in 1910, designing and making special machinery for others until 1916 when the firm began to produce and sell for itself. Mr. Black became the salesman and administrator while Alonzo Decker handled production problems.

**Builders Allow Space  
For Bigger Refrigerators**

Larger allowances are now being made by builders to accommodate the larger refrigerator units currently on the market. The trend to larger refrigerator sizes is reflected in adjusted allowances made by most builders in small mass-produced houses. A recent survey indicates that even in minimum low-cost houses, kitchens are designed to accommodate eight cubic foot boxes.

A check of 148 existing homes made through distributor installation and service men in all parts of the country showed that 91 per cent have space enough to accommodate refrigerator widths of all types of eight-foot models now on the market. An earlier survey revealed that only 59 per cent of 104 house plans allowed for these sizes.

An analysis of refrigerator cabinet  
(Continued on page 194)

**AMERICAN BUILDER**





# NEWAY

*Steel Sliding*

## DOOR-FRAME

with WARP-PROOF expansion joint



### ORCHARD BROS. INC.

63 Meadow Road • Rutherford, N. J.



Space between edge of panel and frame permits panel to expand or contract without warping.

### The Only Steel Sliding Door-Frame With Free-Floating Panel

NEWAY combines Top Track Ball Bearing Suspension with an exclusive expansion joint that permits free-floating quarter-inch board or plywood panels, which can expand or contract in the rigid-box-and-channel steel frame. Can't warp—Can't bind—Costs less. Shipped K.D. for jiffy assembly using your own plywood panels.

Inquiries Invited from Manufacturers' Agents, Jobbers, Tract Builders and Retail Dealers.

Please send complete details on your NEWAY Steel Sliding Door-Frame. We are

Manufacturer's Agent  
 Jobber

Tract Builder  
 Retail Dealer

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Attention: \_\_\_\_\_ AB

*"Another  
WINNING BID!"*



**Estimating is Accurate! Profitable!  
with the new Remington Rand PRINTING Calculator**

Yes, and your other figurework too—everything from figuring payrolls to computing cubic content—goes faster and smoother with the Printing Calculator.

You get short-cut multiplication, automatic division, lightning-fast addition and subtraction.

And the *printed proof of figure accuracy is on the tape*—this eliminates checking and re-checking—saves you both time and money. Send today for your **FREE** copy of "A Blueprint for Figure-Fact Efficiency." It explains how you can get the right answers faster and increase efficiency—with the Printing Calculator.



**Remington Rand**

**BALANCED PERFORMANCE for DOUBLE DUTY • DOUBLE VALUE**

Room 2131, 315 Fourth Avenue, New York 10, N. Y.  
Please send me **FREE** booklet for Contractors and Builders.

Name

Company

Address

City  Zone  State



**Changes Made in  
Home Finance Agency**

Announcement has been made recently by Administrator Raymond M. Foley of the Housing and Home Finance Agency of a reorganization of the Office of the Administrator to deal with new and developing problems in the defense mobilization program. Major changes include the creation of three new divisions, that of Plans and Programs, Community Facilities and Special Operations, and Field Coordination.

The Division of Plans and Programs will coordinate plans and policies of the Agency's defense activities, provide liaison mobilization agencies, and perform the supervisory functions formerly conducted by the Operations Analysis staff and will be headed by Neal J. Hardy. Division of Community Facilities will direct functions of the Community Facilities Service, the prefabricated housing loan program, the Alaska Housing program and some Lanham Act war housing functions. It is headed by Pere F. Seward. Division of Field Coordination coordinates the activities of the recently announced OA regional offices. Director of this Division has not been named.

The OA is establishing regional offices in New York, Philadelphia, Atlanta, Chicago, Kansas City, Fort Worth, San Francisco, Seattle and Denver. Existing division offices of the Community Facilities Service are being broadened with the addition of specialized staff. Regional offices will represent the administrator in field activities. Other divisions of OA will continue. These include Housing Research, Slum Clearance and Urban Redevelopment, Law, Information, and Administration. The Federal Mortgage Association, a corporation, is also a part of the Office of the Administrator.

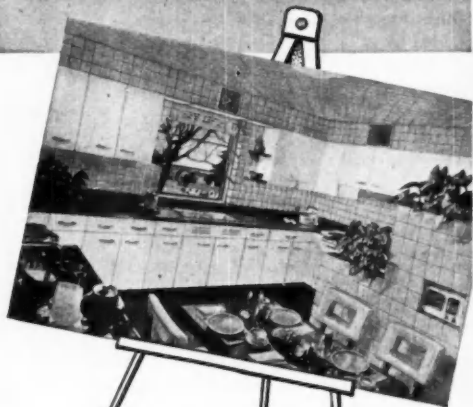
**Bigger Refrigerators ...**

*(Continued from page 192)*

sizes shows that the eight-foot models of all manufacturers now on the market have widths varying from 29-7/8 inches to 31-15/16 inches. Thus, modern builders are recognizing the need for allowing approximately 36 inches of space to accommodate the modern refrigerator, even in the mass-produced, low-cost home.

Before the war, six-foot boxes were largest in demand, accounting for nearly 80 per cent of industry shipments. Now the six-foot size amounts to only 10 per cent of shipments, while the eight-foot size accounts for more than half of the shipments.

*Individual*  
**VIKON**  
**METAL TILES**



Sheer  
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 tiles are appropriate...

- 30 fade-resistant decorator colors and stainless steel
- will not warp, crack or craze
- resist heat and household chemicals
- fire-resistant, waterproof, seals out insects

STEEL · ALUMINUM · STAINLESS STEEL

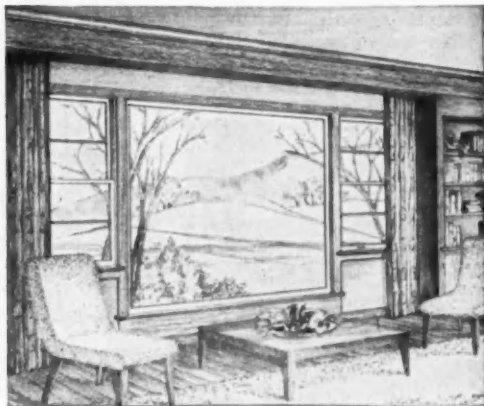
**VIKON** **TILE**

BEAUTY · ECONOMY **COLOR METAL** DURABILITY

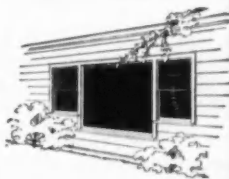
"The Original Individual Metal Tile" • Established 1926  
 VIKON TILE CORP. • WASHINGTON, N. J.

# beauty

**with wood windows**



Streamlined design—correct proportioning—precision craftsmanship—give today's wood windows their striking beauty.



These windows are obtainable with scientific toxic water repellent treatment which armors them still further against the attacks of time. Add the advantages of weathertight construction, easy operation and low maintenance and you have just a few of the reasons why wood windows help make the homes you build truly *modern*. Wood Window Program, 38 South Dearborn Street, Chicago 3, Illinois.

## wood windows

for modern beauty  
 and modern performance

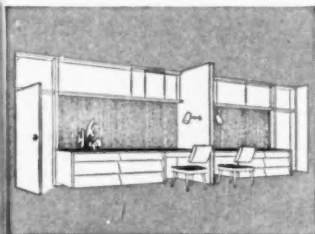
# Prize Winning

## ways to use

### PATTERNED GLASS

Judges in the NAHB-Forum House Design Competition awarded the \$2500 prize for the "Best Use of Glass" to Seymour R. Joseph, of Joseph & Vladeck, New York. Their choice was based on its use "to enhance the living comfort and salability of low-cost homes".

Included in Mr. Joseph's smart use of glass were ideas for employing the beauty, light-transmission and privacy provided by Blue Ridge *Patterned Glass*. The drawings below show some of these ideas. For more ideas on use of *Patterned Glass*, mail the coupon for "New Adventures in Decorating".

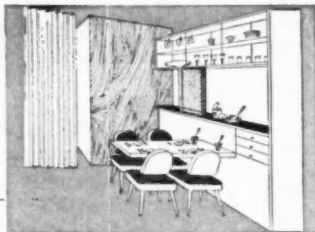


#### PARTITION

between small bedrooms and the hall is translucent Blue Ridge Louvrex glass from desk-height to top of doors. Clear plate glass sliding panels for cross ventilation above.

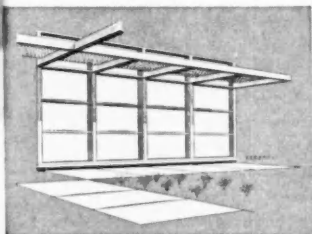
#### SLIDING PANELS

of Flutex glass at counter height afford pass-through facilities between kitchen and dining room. Closed, they provide privacy.



#### SUNSHADE

of AKLO\* (heat-absorbing) Skytex wire glass protects bedroom and living room windows from direct sunlight when sun is high. Also used over walk leading to the garage. \*®



Blue Ridge Sales Division, Libbey-Owens-Ford Glass Company  
8-161 Nicholas Building, Toledo 3, Ohio

Please send me my free copy of "New Adventures in Decorating"  
(PLEASE PRINT)

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**BLUE RIDGE Patterned GLASS**



FOR SOFT, DIFFUSED LIGHT - SMART DECORATION - COMPLETE PRIVACY

### Remodeled Upson Offices Show Uses of Products

Important objectives of the recent remodeling and redecorating of the Upson Co. offices in Lockport, N. Y., were to demonstrate applications of Upson products and to suggest prod-



UPSON President W. Harrison Upson, Jr. talks in new office with Averill E. Calver, advertising-public relations director

uct uses and interior decorating to plant visitors, according to President W. Harrison Upson, Jr.

The modernized administrative headquarters was planned by Walter Dorwin Teague, well-known industrial designer.

Another functional feature of the new layout is the elimination of waste space to provide more individual offices.

Upson Strong-Bilt full-wall water-proofed panels were used throughout the offices in a number of different



WALLPAPERED panels feature office of J. J. Upson, administrative vice president

ceiling and wall installations and for light boxes, sliding wall panels, window valances, radiator enclosures and storage and filing cabinets.

Some walls are curved, others have special molding treatments. Two ceilings are covered with Upson 12-inch tiles. Several other company products in experimental stages were used in the project.

Each office was designed and decorated individually to serve special needs of company executives.

AMERICAN BUILDER

## FACTS FOR BUILDERS

ABOUT "CONSTRUCTION BY ADHESION"



HERE ARE NEW METHODS WHICH  
MEAN SUBSTANTIAL SAVINGS IN LABOR AND  
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WRITE TODAY FOR RECOMMENDED SPECIFICATIONS ON  
1. Setting Genuine Clay Tile. 2. Insulating Ducts. 3. Insulating walls and ceilings  
either by Direct Adhesion or in conjunction with Surface Anchors. 4. Installing  
floor runners; bonding furring strips.



1.  
Today it is normal procedure to install clay tile in hotel bathrooms without losing a night's revenue. This illustration shows one of the 144 rooms in the White Plaza Hotel, Dallas, Texas, in which MIRACLE ADHESIVE was used to do the job from the time the guest left his room in the morning until he returned that afternoon.

2.  
Plaster applied over wire and cork which has been attached to aluminum ducts using MIRACLE ADHESIVE and MIRACLE SPINDLE ANCHORS at John Hancock Mutual Life Insurance Co. Building, Boston, Mass. ARCHITECT, Crum and Ferguson. BUILDER, Turner Construction Co.



3.  
FIBERGLAS insulation, Type PF-613, 2" thick — bonded to concrete ceiling using MIRACLE PRONGED ANCHORS at Radio City Studio 6B, New York, N. Y. CONTRACTOR, William J. Scully, Inc., New York, N. Y.

4.  
WOOD RUNNERS installed on concrete floors with MIRACLE ADHESIVE and MIRACLE ANCHOR NAILS to support 2" solid partitions, Washington Circle Apartments, Washington, D.C. GENERAL CONTRACTOR, Charles N. Tompkins Company.



VISIT MIRACLE EXHIBIT AT ARCHITECTS SAMPLES CORP.  
101 PARK AVE., NEW YORK CITY

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Prefabricated  
**WOOD SLIDING DOOR  
CLOSET FRONT**

- Cuts costs on every opening
- Installation time . . . 20 minutes
- Prefabricated package includes doors, jams and hardware

Sales are simple to wrap up with this easy-to-install package. Fully equipped exclusively with Slide-All hardware. Smooth-action ball bearing rollers carry doors quietly on extruded aluminum overhead track. Fingertip adjustment makes allowance for variations in floor level. Sliding door closet units finished in fir plywood, select white gum, masonite and other woods. Available in 26 standard sizes. Special sizes in quantity lots.

### Used Extensively by America's Leading Builders

They're specifying them for prefabricating developments as well as garden apartments and new homes. Perfectly suitable too, for modernization and redecorating.

A few choice jobbers territories available.  
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Please send me, without obligation or cost, your catalogue and complete information on U. S. Sliding Doors. I am interested in Sliding Doors as a—  
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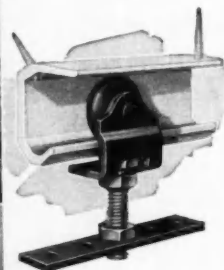
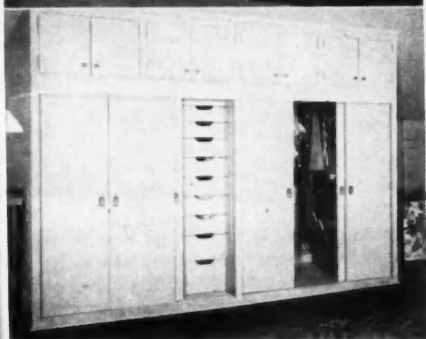
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AD1

**It pays  
in many ways  
to recommend  
and sell**

## Vanishing Door Hangers and Track

BY  
**Richards-Wilcox**



**SILVER STREAK**  
R-W No. 1019  
Vanishing Door  
Hangers and  
Aluminum Track

Today's greater demand for small homes makes the full utilization of every inch of space more imperative than ever. And the answer to this need is an entirely new Vanishing Door Hanger by Richards-Wilcox that is designed for thin-wall installation and noiseless operation. R-W Silver Streak Vanishing Door Hangers and Aluminum Track are adapted for use on parallel residential wardrobe doors, or for any doors in any room of the house. Note these points of special importance to you and your customers:

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- Adapted to thin wall to save space and reduce building costs.
- No interference with room furnishings or decorations.
- Tight fit of door to floor avoids drafts, loss of heat.
- Adapted to single sliding and parallel sliding house doors.

For more information, contact our nearest office or request one of our illustrated folders describing in detail the uses and advantages of **SILVER STREAK**.

### Production Increase In Insulating Boards

Production capacity of thirteen major manufacturers of insulating boards, which provides building materials combining structural and insulation properties, has grown to almost double its World War II output, according to a report issued by Dean Crandall of the Insulation Board Institute. Plants are being operated on a 24-hour schedule with the result that more insulation board was produced and shipped during the last half of 1950 than in any previous six-month period. These shipments exceeded one billion square feet on a half-inch-thick basis. If channeled entirely into new building, this would be more than sufficient to completely sheath and provide interior walls and ceilings for a quarter of a million homes. Included in the total were building board, sheathing, lath, planks, tiles and roof insulation. Not included were industrial items and materials for further fabrication.

Despite this record production, manufacturers have heavy order backlogs. While the January shipments were the largest for any month on record, production peaks usually come in late spring and summer. Only a minor part of the shipments appear to have been going into inventories.

The insulation board industry has faced no major problem in obtaining primary raw materials, which is the wood of small trees, mostly sugar cane bagasse, and other sources of fibres. Some chemicals, notably those required for predecorating interior finish products have been scarce at times, necessitating the use of alternatives which may be reflected in some variations in external appearance, but which in no way affect the fundamental qualities of the insulation board.

While a possible decline in new housing may have some effect during the latter part of the year, there are prospects of increased military, defense housing and remodeling requirements, with the result that the industry expects no let-up in demand during the remainder of this year. Insulating board is also used widely in temporary shelters, farm building interiors and other non-housing applications. As limitations on new commercial construction becomes more stringent this will necessitate the modernization of older buildings, particularly the interiors. To date no limitations have been placed on farm building.



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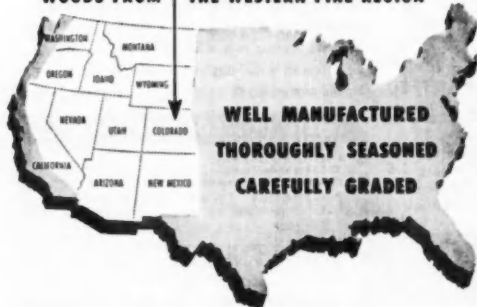


For more information about Douglas Fir from the Western Pine region send for free illustrated 52-page book. WESTERN PINE ASSOCIATION Yeon Building • Portland 4, Oregon

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THESE ARE THE ASSOCIATED WOODS

WOODS FROM THE WESTERN PINE REGION



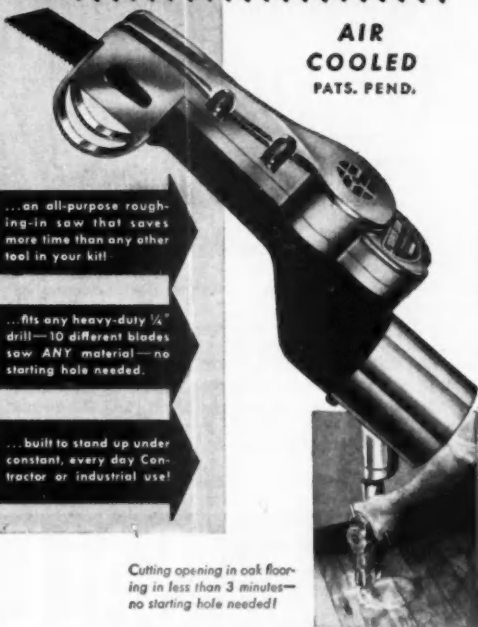
Idaho White Pine, Ponderosa Pine, Sugar Pine

Larch, Douglas Fir, White Fir, Engelmann Spruce, Incess Cedar, Red Cedar, Lodgepole Pine.

The heavy duty tool with built-in blower.....

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...an all-purpose roughing-in saw that saves more time than any other tool in your kit!

...fits any heavy-duty 1/4" 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 1/4" or 5/16" DRILL... as easy as changing bits! Overall length only 10 1/2"; 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.

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

Gentlemen:

Please send us Bulletin L-6 and name of the nearest Super Saw distributor.

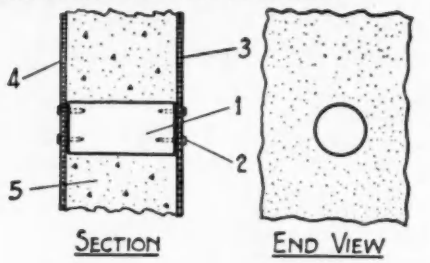
Name \_\_\_\_\_

Address \_\_\_\_\_

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

# TECHNICAL GUIDE for Builders and Craftsmen

## How to Make a Form for Drain

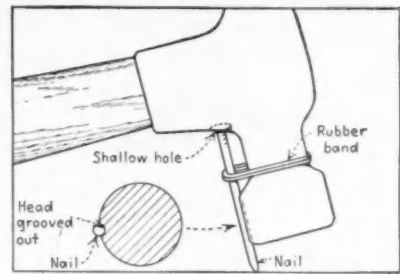


- 1- CAN      3- 1<sup>ST</sup> FORM      5- CONCRETE  
2- NAILS    4- 2<sup>ND</sup> FORM

When a weep or drain hole or any other type of a similar nature is required in a concrete wall, a tin can may be used effectively.

Obtain a can that has a diameter the size of the hole required and which is long enough to fit between the two concrete forms (3) and (4). The can is then held in position by two nails driven through each side of the forms. After concrete has been poured and set, and the forms stripped off, the can is easily knocked out.—Submitted by Warren W. Howe, Longview, Wash.

## How to Start Nails with One Hand



In areas difficult to reach with both hands this method is convenient. To hold head of nail file a shallow groove in the underside of hammer head. This will keep nail head from shifting. A heavy rubber band is used to hold nail securely while it is started.—Submitted by Herbert E. Fey, New Braunfels, Texas.

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### EVERY SAW GUARANTEED

**SPECIFICATIONS:** height, 36 in.; width, 42 in.; depth, 39 in.; table top, 39½ in. diameter; saw diameter, 10 in.; gas engine 3.6 H. P. operates all day for pennies. Shipping weight 460 lbs. in original crates.

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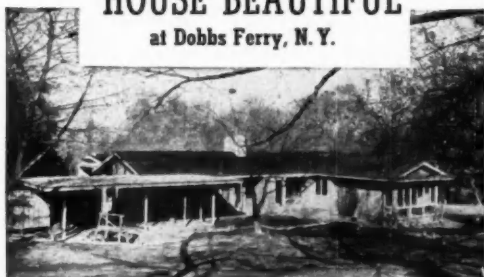




The 1951  
PACE SETTER HOUSE

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"HOUSE BEAUTIFUL"  
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Here is a home built for service as well as for convenience—a home in which all materials have been selected from the country's best with infinite care. And... Cuprinol was specified and used for on-the-job treatment of all plates, posts, joists and studs from below to several feet above ground to prevent rot, termites and decay.

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See Sweet's File for Builders 2b/CU or write for information on types of Cuprinol for specific uses.

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56 Maple Street                      Simsbury, Conn.

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BEST FOR LESS!**



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**Bilco**

TRADE MARK

*Copper-Steel* **CELLADOUR**

Modern design, finest materials, top craftsmanship make the Celladour 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 Celladour 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  
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The Celladour opens the way to new living pleasure! And it keeps giving pleasure for a lifetime. It's super-safe, foot-proof, weather-tight, fire-proof, and flatters every home. Bilco performance means happy customers... better business for you.

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Please send me all the facts that prove the "best costs less" when I install Bilco Celladoors.

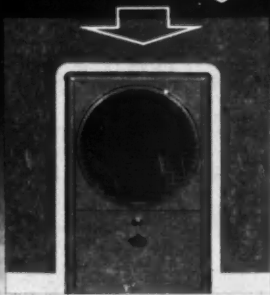
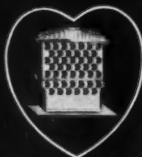
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Address \_\_\_\_\_  Builder  
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SYSTEMS OR MULTIPLE INSTALLATIONS  
OF ORDINARY FLOOR, WALL, RADIANT,  
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Exclusive patented feature  
—COROAIRE CAST-IRON  
VENTURI TUBE HEAT  
EXCHANGER—supplies 5  
times greater heating surface  
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matched efficiency and  
economy.



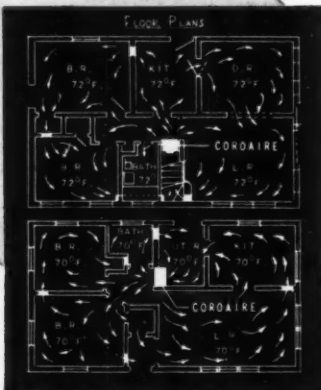
The new COROAIRE 90WM IN-THE-WALL Heating System...AGA approved...acclaimed by authorities and experts as the perfect answer to 3½ to 7 room, one floor, private, public, defense and military projects—homes or apartments.

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gas heat—forced circula-  
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LY DUCT WORK...  
NO HARD-TO-OB-  
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Finished to blend into  
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Hi-Boy Furnaces...Hot Boy Space Heaters.  
Manufactured exclusively by the Republic Steel Corp.  
Dept. PDM, 1422 Euclid Avenue,  
Cleveland 15, Ohio



## Letters . . .

(Continued from page 41)

popularity faster was due to the fact that lending institutions were reluctant to loan the full amount on this type of house because they thought its design was transitory and might not have permanent appeal. However, the result has been just the reverse. People are turning to this type of house more and more because of the apparent economy that can be introduced into its construction. The measure of economy in this type of house has not been fully realized up to now because builders and mechanics take longer to build a house that differs in construction from that with which they are accustomed. The advantages of the flat roof house are that it creates a low pleasing appearance; a less expensive roof covering is possible; ceiling joists are not necessary, and roof rafters can serve a double function. Where a rustic appearance is desired, the roof rafters and ceiling beams can be left exposed with the underside of the roof sheathing serving as a ceiling for that particular room. One of the disadvantages, if it may be called that, is the fact that it requires a larger lot. This is necessary to give it a setting. A row of flat-roofed houses, each placed on a 40-or 50-foot lot, should not be attractive in appearance.—The Editor

### Plywood Installation

Sir: A few years ago I enlarged my Cape Cod cottage in Canada by adding a dining room and kitchen. The kitchen is approximately 14 x 16 feet with a beam in the center of the ceiling which is covered with ½-inch thick 4x8 feet fibreboard. I would like to cover it with plywood, having in stock enough material to do it. What is the best way to put it up—nail it, glue it, or both? Should spacing be allowed between the plys, and if so, how much?

Harold D. Harlan  
New Castle, Pa.

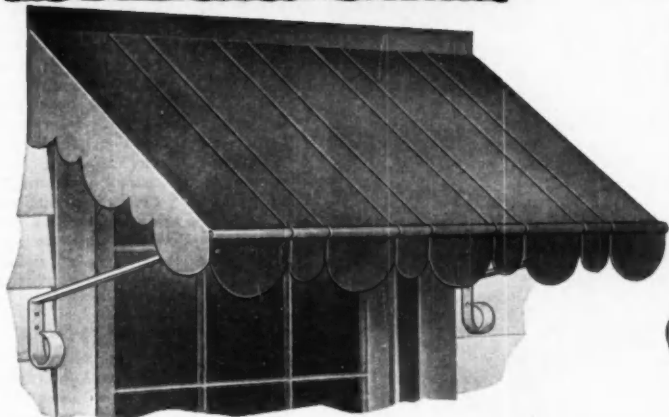
No doubt you are planning to put the plywood ceiling over the existing fibreboard. This can be satisfactory, providing the fibreboard is not buckled, as it will give a measure of insulation for the ceiling. The only safe way to put the plywood up would be to nail it. The finish nails should be long enough so that they can be driven through the plywood and

(Continued on page 204)

*Builders! for protection  
and added appearance  
to your homes — you can't  
beat Leigh Metal  
Canopies and Awnings.*



**AWNINGS** — permanent type made of heavy gauge, double protected steel; zinc coated and bonderized; two coats of baked enamel; in three attractive colors; inside is white for light reflection; three sizes; one piece construction makes for easy installation.

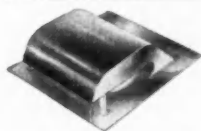
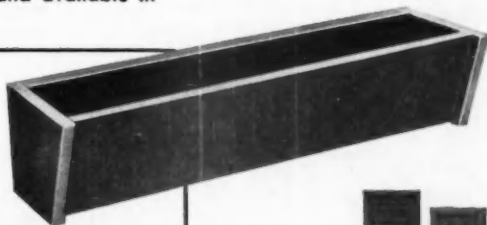


**DOOR CANOPIES** — smart styling adds to the appearance of doorways and gives permanent protection from rain, snow and sun. Built of double protected steel; has built-in drip channel. Unit can be installed in a few minutes. Built in two sizes, and available in three colors, green, blue, and tile red.

YOU CAN'T BEAT THEM FOR  
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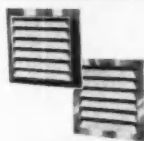
**FLOWER BOXES** — a large attractive unit, 30" long, 6 3/4" deep with a 10" projection. Built of double-protected steel, complete with installation screws. Furnished in three colors, green, blue and tile red.



New Style  
ROOF VENTILATOR



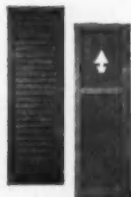
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American  
Furniture Mart  
CHICAGO

### Letters...

(Continued from page 202)

fibreboard and obtain a good hold in the ceiling joists. It is recommended that the nails be driven at a slight angle to obtain a better grip. There are a number of ways in which plywood can be applied. The sheets can be placed in position and drawn up tight to each other and then nailed. A narrow wood back strip can then be placed over the joint for its entire length. Another method is to allow an opening of about  $\frac{1}{8}$  inch between the two sheets as they are applied to the joists. This opening creates a shadow line making an interesting pattern on the ceiling. This also has the advantage of providing for any shrinkage or expansion that might take place. To give you additional information we are enclosing our 36-page reprint of articles on plywood uses which were published in the January 1950 *American Builder*.—The Editor

### Movable Listing Boards

Sir: On page 118 of the March, 1951 issue of *American Builder*, the article concerning the board at the Forest City Material Co. was of much interest to me. However, if you will notice in the picture, two customers are in a squatting position and the salesman is in a stooping position. Here I would like to make a suggestion. If the lower part of these boards were cut and allowed to move up and down much as a window does, the articles for sale could be brought to eye level. Due to the limited amount of wall space in our office we have a "photo listing" board that works on this principle and has proved very effective.

Anthony Gambori  
New Haven, Conn.

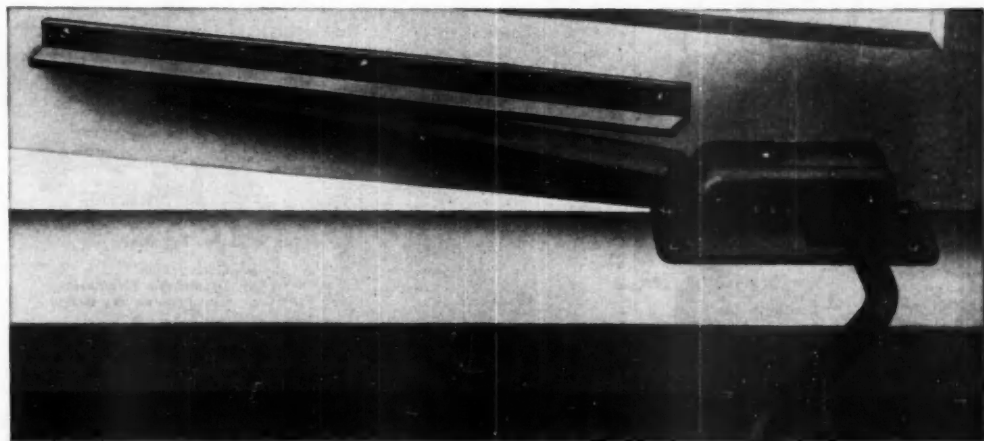
### "First Hundred Years" Marked By Thatcher Furnace Co.

"The First Hundred Years of the Thatcher Furnace Company," is a recently-published booklet covering the firm's history from its founding by John M. Thatcher, Pennsylvania school teacher, to the present day—1850 to 1950.

Among the interesting features are photographs of pioneer furnace models, reproductions of early advertisements and lists of early customers. Sections are devoted to pioneer years, the trend toward steam, period of transition, and World War II and postwar years.



## HEAVY-DUTY REVERSIBLE CASEMENT OPERATOR 4700



Operator 4700, for wood casements, is unique in several respects. It is *not* handed, and may be used interchangeably on right- and left-hand windows. Its worm and gear construction, with a one-piece gear of solid bronze, will withstand a lifetime of twists and turns. The handle—8 inches long—is removable.

Operator 4700 functions without disturbing the screen and is a handsome bronze lacquer finished interior fixture. Its heavy brass channel guide, anchored at *three* points, will not bend or bind.

Operator 4700 is a cinch to install too. 7 screws—that's all!

H. S.  & Co., Inc.

3348 NORTH 10TH STREET • PHILADELPHIA 40, PA.

GETTY OPERATORS ARE USED ON MORE CASEMENT WINDOWS THAN ALL OTHER OPERATORS COMBINED.

JUNE, 1951



**AUTOMATIC CLOSER 4649**

Pulls top of outswinging wood sash snugly against the frame. It prevents warping, assures all-around tight contact. Easily installed—4 screws; no mortising required.



**EXTENSION HINGE 2529**

By means of flange type leaf it provides a firm corner support of the sash. By providing a 4" sash clearance, it assures maximum ventilation and permits cleaning of the outside casement from inside the room.

The 2 best  
"HEADLINE" words  
in this - or any other - ad:

**NEW**  
and  
**EASY**



PATENT  
PENDING

... 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 base-  
mentless slab houses.



"Sells on Sight"

**FREE!**

Write for the story of MOR-  
SUN Counter Flow heating  
systems for basementless slab  
houses.

**MOR-SUN**  
FURNACE DIVISION  
**MORRISON**  
STEEL PRODUCTS, INC.

649 AMHERST ST. • BUFFALO 7, N. Y.

**Six-inch Permalite Wall  
Gets 4-Hour Fire Rating**

A newly developed 6-inch perlite curtain wall recently received a 4-hour fire rating from Underwriters' Laboratories, Inc., it has been announced by Great Lakes Carbon Corp., producers of the Permalite perlite aggregates used in the test.

The construction technique for the curtain wall was developed by McNulty Bros., lathing and plastering contractors, in collaboration with



**CURTAIN WALL** test assembly after application of first coat of 4-inch-thick Permalite portland cement plaster outer section

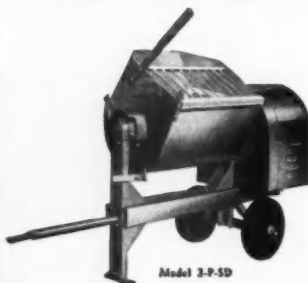
Bruce A. Gordon Co., engineers. Both are Chicago firms. The test was sponsored jointly by Aluminum Company of America, McNulty Bros. and Great Lakes Carbon Corp.

Making up the wall are an exterior layer of Permalite portland cement plaster or concrete four inches thick, and an interior layer of Permalite gypsum plaster one inch thick, separated by a furring channel.

Paper-backed metal lath is affixed to and spaced 1-inch from the exterior edge of vertical structural steel supports. The steel supports are designed to allow for expansion and contraction when bolted together. The steel supports are provided as required with metal fins which extend through the concrete for the purpose of receiving various types of weatherproof facade which might be applied when this construction is used as an exterior panel wall. Permalite cement plaster, four inches thick, thus embeds the vertical steel supports.

After the cement plaster or concrete is in place, 3/4-inch furring channels are erected and paper-backed metal lath is wired thereto. Permalite gypsum basecoat plaster is then applied in scratch and brown coats, followed by lime-putty finish coat, to reach total plaster thickness of 1-inch.

**GILSON  
MIXERS**



For Value Buy Gilson

- Quality Built
- Dependable Performance
- Best Price on the Market

Since 1911 manufacturers of quality concrete and mortar mixers from 2 to 16 cu. ft. capacity. Write for illustrated bulletin and name of your Gilson distributor.

**GILSON BROS. CO.**  
FREDONIA, WIS.

**END  
DUST**

with

**SOLVAY**  
Calcium  
Chloride

Annoying dust can be controlled easily and economically with SOLVAY Calcium Chloride. It's clean, colorless, odorless—safe to use! Requires no special tools or equipment—anyone can apply SOLVAY Calcium Chloride with effective results. Stop dust annoyance now—order SOLVAY Calcium Chloride today.



**SOLVAY SALES DIVISION**  
Allied Chemical & Dye Corporation  
40 RECTOR STREET, NEW YORK 6, N.Y.

AMERICAN BUILDER

# MORE than a family resemblance



Regardless of what size Oliver Industrial Wheel Tractor and Ware Loader you buy . . . "66", "77", "88" . . . you get the identical superior design and performance features in each.

The smaller tractor-loaders are not built down to a price level . . . they are built up to the same quality standards as the larger models.

In the tractors, you get the famous Oliver *plus* power and easy maneuverability that get you in and out of the rough spots . . . *fast!*

In the loaders, you get the same top features in each . . . hydraulically controlled bucket for greater "breaking out" action—full bucket loads

. . . hydraulically controlled discharge—easily and gently, fast or slow . . . mid-section pivot of the loader arms for longer reach of dumping position and correct weight distribution on tractor frames . . . simple, rugged design that eliminates unneeded dead weight . . . shock loads absorbed by hydraulic rams for longer tractor and loader life—lower maintenance.

Your Oliver Industrial Distributor will be happy to show you what the "more than a family resemblance" in Oliver-Ware Tractor Loaders means to you in lower cost operation. And see the Oliver color film "Task Force on Wheels."

## THE OLIVER CORPORATION

Industrial Division: 19300 Euclid Avenue, Cleveland 17, Ohio  
A complete line of industrial wheel and crawler tractors



# CHROMEDGE®

EXTRUDED ALUMINUM MOULDINGS

Will Continue to be Produced



## The policies that have helped build B & T's leadership will be maintained

Production of Chromedge Metal Trims will be continued through the coming months, in a wide variety of popular functional or retaining shapes. Chromedge distributors and dealers everywhere will continue to offer the preferred answers to all basic needs for moldings that contribute to safety, sanitation, and public welfare.

This endeavor to meet the nation's needs to the best of our ability, within limits established by the National Production Authority, will continue as the firm policy of The B & T Metals Company.

Although metal supplies and production limitations cannot at this time be predicted, B & T will, in the future as in the past, make every effort to see that everyone gets a fair portion of all available Chromedge moldings.

In every other way, The B & T Metals Company will do its utmost in the interests of its customers. In this light, we strongly urge everyone in the building field to safeguard his interests — *and his profits* — by keeping in close contact with his Chromedge distributor regarding all moulding requirements and availabilities.

A list of Chromedge moldings scheduled for future production as of May 1, 1950, has already been issued. If you do not have a copy of this availability list, your Chromedge dealer can supply it, or you may write to The B & T Metals Company for your copy.

**The B & T Metals Co.**  
Columbus 16, Ohio

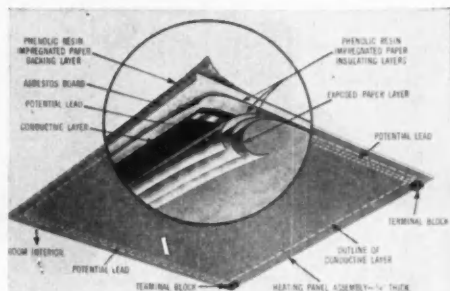
## Conductive Rubber Element Furnishes Electrical Heat in Radiant Ceiling Panels

Asbestos-backed units, treated as wallboard, furnish base for finish

One of the latest innovations in home heating is the Uskon electrical radiant heating panel system. This is a method of providing individual heat comfort radiantly by means of ceiling panels in which the heating element is a layer of electrically conductive rubber. These panels may also be used in apartments, offices, commercial and industrial buildings.

### Radiant Heating Principles

A radiant panel system maintains personal comfort by raising temperatures of the interior room surfaces, without heating the air in the room directly. The air becomes warmed secondarily—from the warmed room surfaces. With ceiling panels, direct radiant heat transfer to the surface of the body takes place. Thus, in a radiant



THIS diagram shows construction of Uskon radiant home heating panels. Conductive layer is of rubber with special additives

panel heated room with warm surfaces and warm body surfaces, the occupants may be comfortable with air temperatures considerably below 70 degrees F. The heat is produced by electromagnetic waves radiating from the heating element rather than by convection.

The system has these advantages: reduced air temperatures, higher humidities, reduced shock effects in movements in- and out-of-doors, uniform floor-to-ceiling temperatures and quick comfort. With the electrical panels, these additional advantages are alleged: no fuel or fuel dirt problems, immediate heat, individual room regulation and no machinery or tank installations.

### Uniform Heat Assured

This particular electrical panel, a product of the United States Rubber Company, has an inner core of Uskon, a natural rubber to which have been added special materials permitting the conduction of electricity. The conductive rubber layer provides a completely uniform heating surface over the entire area although there are no electrical wires within the panel other than the two aluminum foil potential leads to the conductive rubber layer (see drawing).

The rubber layer is sealed between layers of phenolic impregnated insulation in a laminated construction made rigid by backing of  $\frac{3}{16}$ -inch asbestos board. When completed, the bonded assembly is approximately  $\frac{1}{4}$ -inch-thick and presents the same appearance as standard in-

(Continued on page 210)



*"Decorator Effects" at Budget Costs—with MENGEL PLYWOOD*



WALNUT

MAHOGANY

OAK

BIRCH

## Get Luxurious Walls at **ECONOMY** Prices!

If you have ever had any reservations about "dry-wall" construction, forget them now, and prepare to *capitalize* on Mengelux and Mengelbord!

**Mengelux** (above) is fancy-face hardwood plywood — Precision Cut to closest tolerance in length, width and thickness. It's available in 48" x 96" panels, and other standard stock sizes—in Mahogany, Walnut, Oak and Birch. *Many decorators consider it more beautiful than high-priced "architectural panels" because it is allowed to retain all the natural characteristics of the fine veneer with which it is faced.*

### **Mengelbord**

Wherever precious woods are not required, Mengelbord offers advantages obtainable in no other utility plywood. It is genuine hardwood throughout — has one-piece face, free from joints and oval patches . . . *free from grain-raising.*

Most Mengelbord panels are all-white or nearly all-white. Others have the spectacular heartwood figures which some designers select especially for exotic interior effects. Whatever the "figure", all Mengelbord panels can be stained, painted or finished natural.

See Mengelux and Mengelbord, and be convinced! If your dealer cannot furnish samples, write direct for full facts.



*Plywood Division. THE MENGEL COMPANY, Louisville 1, Ky.*

The Mengel Company . . . America's largest manufacturer of hardwood products • growers and processors of timber • manufacturers of fine furniture • plywood • flush doors • veneers • corrugated containers • kitchen cabinets and wall closets

# BUILDERS, ARCHITECTS EVERYWHERE

have switched to

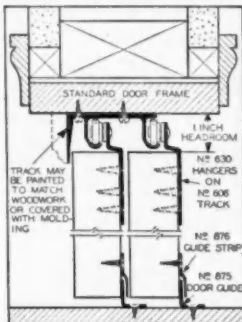
**Sterling**  
HARDWARE

FOR SLIDING DOORS...  
EVEN IN THEIR OWN HOMES!

These by-passing wardrobe doors in the home of Mr. Lawrence A. Schwall, A.I.A., Wilmette, Ill. glide on STERLING SLIDING DOOR HARDWARE.



**Sterling** MAKES SLIDING DOOR HARDWARE FOR EVERY TYPE OF RESIDENTIAL DOOR



**NO. 630 HANGER**  
For 1 1/2" By-passing Doors. Simple to install. Low headroom. Easy adjustment and smooth operation.



**NO. 610 HANGER**  
For small 3/4" doors.



**NO. 620 HANGER**  
For larger 3/4" doors.



**NO. 600 TRACK**



**NO. 642 HANGER**  
For pocket doors. Fits No. 600 Track.

**NO. 676 GUIDE STRIP**  
For by-passing doors. Eliminates door grooving completely... not visible from outside.

**THE 800 SERIES FOR HEAVIER DOORS**  
INCLUDES 6 HANGERS FOR DOORS OF ALL TYPES



**NO. 840**



**NO. 850**



**NO. 852**

Write today For Catalog on Complete Line!

**Sterling Hardware Manufacturing Company**

2345 Nelson Street Chicago, 18 Illinois

## Radiant Ceiling Panels

(Continued from page 208)

terior wall boards. The standard sizes of heating panels are 4x4, 4x8 and 3x4 feet. The four-foot dimension readily adapts itself to standard 16- or 24-inch stud spacing.

### Two Sizes, Types Available

Uskon panels, operating on 220 volts, are made in two standard wattage densities, 17 watts per square foot and 22 watts per square foot. Two different wiring methods are available—type A, the Uskon molding (cove-race-way) wiring method—and type B, the junction box method. Both methods are approved by the Underwriters' Laboratories, Inc. The molding method uses two small terminal blocks on the room side of the panel; these are permanently attached to the four-foot edge



USKON panels are nailed, screwed on ceiling joists as are conventional wallboards

which abuts against the wall. These terminal blocks are for electrical connections, and panels equipped with them may be used in all types of single and multiple story construction. The blocks fit through openings in the top of the surface raceway (over which the cove is installed) which is placed at the junction of the ceiling and wall.

The junction box panel (type B) uses a standard four-inch junction box (located on the back of the panel above the ceiling) to enclose the electrical connections. This type B may be used in construction where the junction box is accessible under National Electrical Code requirements.

### Simplified Installation Used

Uskon heating panels are installed in the ceiling to obtain the maximum degree of radiant heat. Installation instructions are included in each crate and are also obtainable from Graybar Electric Company, distributors, and United States Rubber company branch offices. In new construction, it is recommended that the panels be nailed or, preferably, screwed directly to the ceiling joists after the framework of the house is complete. The 17 watt (58 B.T.U.) per-square-foot panels are used in rooms with normal heating requirements; the 22 watt (75 B.T.U.) panels are used in bathrooms, in rooms with large window areas and in other rooms with abnormally high heat losses.

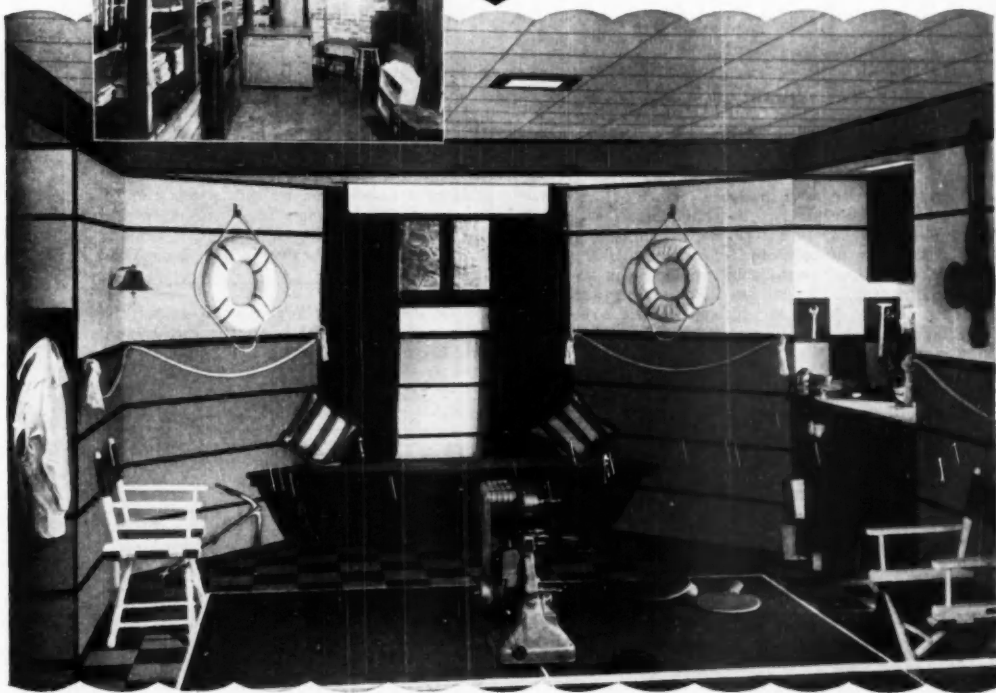
A non-conductive nailing margin, 1 1/2 inches wide, is provided around each panel for screwing or nailing to the ceiling joists. Uskon panels need not be installed by highly trained specialists. After the panels are fastened to the ceiling, the electrical connections are made with

(Continued on page 212)

**look down in the basement**



**to up your profits!**



Giving folks a place to play can be mighty profitable—especially if you show them that the job will *pay for itself*. And that's exactly what you can do when you use the Nu-Wood and Balsam-Wool System! Take this basement recreation room, for instance. The builder started it in the *attic*, where he applied

Balsam-Wool guaranteed insulation. He explained that the Balsam-Wool could save enough in fuel bills to pay for itself and the Nu-Wood Tile and Plank used for remodeling the basement. Simple? Hundreds of builders are finding that out! Get all the profit-building facts—mail the coupon!



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• Wood Conversion Company  
• Dept. 119-61, First National Bank Building  
• St. Paul 1, Minnesota

• Please send me information about the Nu-Wood  
• and Balsam-Wool System, and detailed hints on  
• building the basement recreation room shown in  
• this advertisement.

• Name.....

• Address.....

• City.....State.....

.....

## Radiant Ceiling Panels

(Continued from page 210)

standard, approved methods familiar to all electricians.

Uskon heating panels are connected in groups of parallel circuits; five circuits are usually required in an average house. The total connected load to heat an average five-room home is approximately 12 kilowatts. This is equivalent to the connected load for 1½ electric cooking ranges. Current carried by any one heating circuit does not exceed 20 amperes.

The most desirable arrangement of the panels is around the edges of the rooms with the center parts of ceilings filled in with an appropriate standard building board. Entire ceiling areas of rooms are not covered except in extremely small rooms or in rooms with abnormally high heat losses. The peripheral pattern is advantageous since it provides a greater degree of radiation to persons within the room and also provides a slight air circulation which is desirable for comfort and to disperse tobacco smoke and kitchen odors.

### Good Ceiling Finish Essential

It must be remembered that the presence of the heating system in the ceiling invites attention to the ceiling area. The decoration of the panels is, therefore, generally considered with extreme care; it is essential that the highest type of craftsmanship be used—as with any dry wall construction. For flexibility in decorating methods, Uskon panels are furnished with and without a recessed edge. For best results, each unit is treated as a paneled area in a ceiling.

An Uskon ceiling should not be covered with any bulky material, plywood, soundproofing or lime plaster, any one of which would reduce the heating efficiency.

Suggestion on the proper application of decorating materials are contained in the installation procedures accompanying each shipment. The panels can be painted, preferably with texture paint, or covered with texture plasters, wall fabrics and decorative canvas.

Since slight deviations in panel arrangements will not affect the operating efficiency of the system, the panels should be moved to permit the mounting of ceiling lighting equipment when used in a room.

### Controlled by Low-Voltage Thermostats

The panels are controlled by standard, low voltage, highly sensitive thermostats. In order to reduce the current flowing through the thermostatic contacts, a relay-transformer is used in conjunction with each thermostat.

To obtain the most heating comfort and greatest economy from an Uskon panel installation, it is essential, as it is with any heating system, that the house or building be well-insulated. Full advantage of Uskon electrical radiant heat cannot be realized unless the home has insulated walls and ceilings, double-glazed windows or windows with storm sash installed during the heating season.

Further information on this system can be obtained from the United States Rubber Company, Rockefeller Center, New York 20, N.Y., or from Graybar Electric Company, Inc., 420 Lexington Ave., New York 17, N.Y.

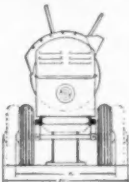
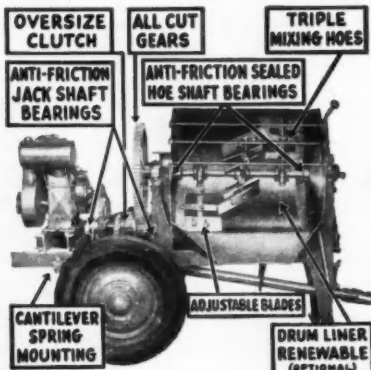
*Expansion Joints: When laying Northern Hard Maple Flooring in large areas, 2-inch (no less) expansion should be allowed along all walls. The 2-inch expansion provision applies to the subfloor as well as the Maple finish floor. This permits free movement of the floor under expansion from moisture absorption.*



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## America's Finest Hoe Type Machines

Choose a "Super Six" or a "De Luxe" and you'll get a light-weight unit with quality features usually found only in expensive, heavy-duty installations. Sealed hoe, jack shaft bearings, renewable blades, triple mixing hoes minimize repairs and guarantee money-making performance. Send TODAY for illustrated, descriptive Bulletin NM 5491.



TELESCOPING AXLE EXTENDS 10" FOR FASTER TRAILING AND EASE OF HANDLING

### SUPER SIX

5:50 x 16 pneumatics  
Wisconsin 4-5 HP air cooled

### DELUXE

4:00 x 18 pneumatics  
Briggs & Stratton 3-4 HP air cooled

• LOWER SHOVELING HEIGHT

• BUILT IN SAFETY GRATING



CASTOR TYPE WHEELS CUT WIDTH TO 21 IN. FOR INSIDE WORK

## CONSTRUCTION MACHINERY COMPANIES WATERLOO, IOWA



AMERICAN BUILDER

# TRULINE

*Residential or Commercial*

## Aluminum DOORS and JAMBS



PATENTS APPLIED FOR

### BEAUTY DURABILITY ECONOMY

Architects, builders and home owners agree on TRULINE Aluminum Doors and Jambs. TRULINE door and jamb assemblies require only one-tenth the installation time of ordinary wood doors. Once installed they offer a lifetime of beauty, durability and economy. They will not warp. They need no paint or maintenance. (They can be painted any color to fit a particular decorative scheme, but their natural smooth satin finish enriches the modern home.) They offer insulation, fire resistance and sound-proofing. In short, they are the modern doors for the modern home...the practical answer to one of the home builders major problems!

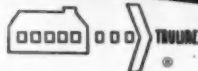
*The entire line* of TRULINE Aluminum Doors and Jambs is priced competitively to ordinary wood doors and jambs. When such factors as installation time, paint, and maintenance are considered, the advantage of specifying TRULINE is at once apparent.

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Some distributorships still available.  
Write, wire or phone for information.

- CHECK THESE FEATURES:**
- Fast, easy installation
  - Freedom from warp
  - Fire resistance
  - Insulation
  - Sound-proofing
  - Lifetime Economy

## WEATHER-VANE Corporation

611 S. FLOWER STREET, BURBANK, CALIFORNIA





## Could forced sale RUIN your business ?

Whether your business is a partnership, a proprietorship or a close corporation, here's a booklet which tells you how you can protect your interests and the interest of your family in case of your death or the death of an associate.

### WRITE TODAY FOR FREE BOOKLET

"The Importance of Business Purchase Agreements." Packed with spelled-out examples this book cuts away the mystery of the Business Purchase Agreement—shows actual agreements, how they work, how they are set up, how they can prevent disastrous forced sale—shows how you can be sure that your share of your business will go to the right person. Address: National Life Insurance Company, Dept. E, Home Office, Montpelier, Vermont.

**NATIONAL LIFE**  
Insurance Company  
MONTPELIER  
**VERMONT**

## New Books

**House Construction Costs.** G. Underwood, McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 18, N. Y. \$4.50.

This volume contains a large store of basic information on the costs of house construction as well as much technical data on actual construction and is useful as a textbook for technical schools and as a manual for men in the building field.

Estimating is based on unit costs with definite values which have been determined for all classes of work. The author designs each computation of a unit cost to serve as a model which can be followed in deriving a new unit cost for any particular location.

### "House Design and Subdivision Planning,"

Small Homes Council, University of Illinois, 107 pages. \$1.00.

This book is a report of papers presented at the sixth annual short course in residential construction for builders and contractors conducted at the University of Illinois January 17-18.

The collected papers cover research on: Subdivision selection and development, the subdivision landscape, streets and utilities for new subdivisions, foundations and floors, wall construction, roof construction, possible

trends in clay masonry construction, demonstration houses, cost study of a 30-house project, foundation walls for basementless houses, sectional planning of split-level houses, field-trial cost data and space design criteria.

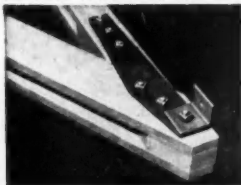
### "Contemporary Houses Developed from Room Units,"

Small Homes Council, University of Illinois, 62 pages. \$1.00.

Findings in the Small Homes Council's recent study of architectural planning designed to eliminate construction waste—in space, materials, and labor—and at the same time "make it possible for the homeowner to build a house which fits the needs of his family and the requirements of his site, a house that is not like and does not look like his next door neighbor's" are published in this report on unit planning.

The unit planning system is based on standardized plans for a room or group of rooms, so designed that they can be combined in different ways to form a variety of complete house plans.

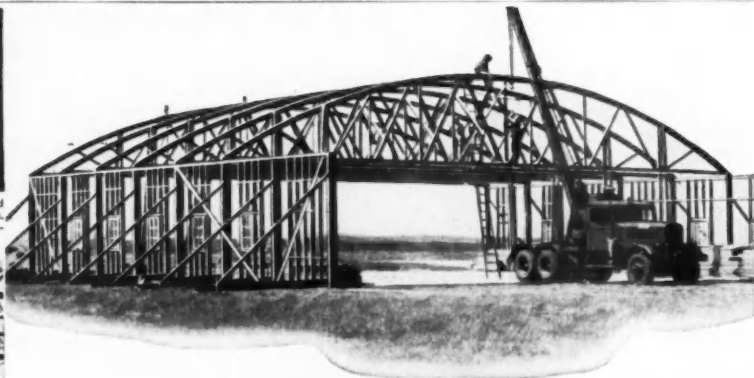
Modular design and improved building techniques are discussed in relation to standardizing of design. Unit plans covered are living-dining area, extra room, sleeping area, work area and garage.



Necessary hardware items for base and crown connections are furnished with trusses. Connections are engineered to handle computed reactions.



This shows construction detail of 71' 10" by 70' hangar erected at Holman Field, St. Paul, Minnesota. Trusses are spaced 10' O.C.



## Aim for MORE BUILDINGS PER MAN AND PER SEASON

**P**ROFIT in building, like most other businesses, depends on turnover and volume per season. With Rilco rafters, arches and trusses you can put up more buildings in any given period because erection time is reduced.

Precision-cut and drilled for hardware, Rilco framing members are delivered to the job site ready for quick, simple

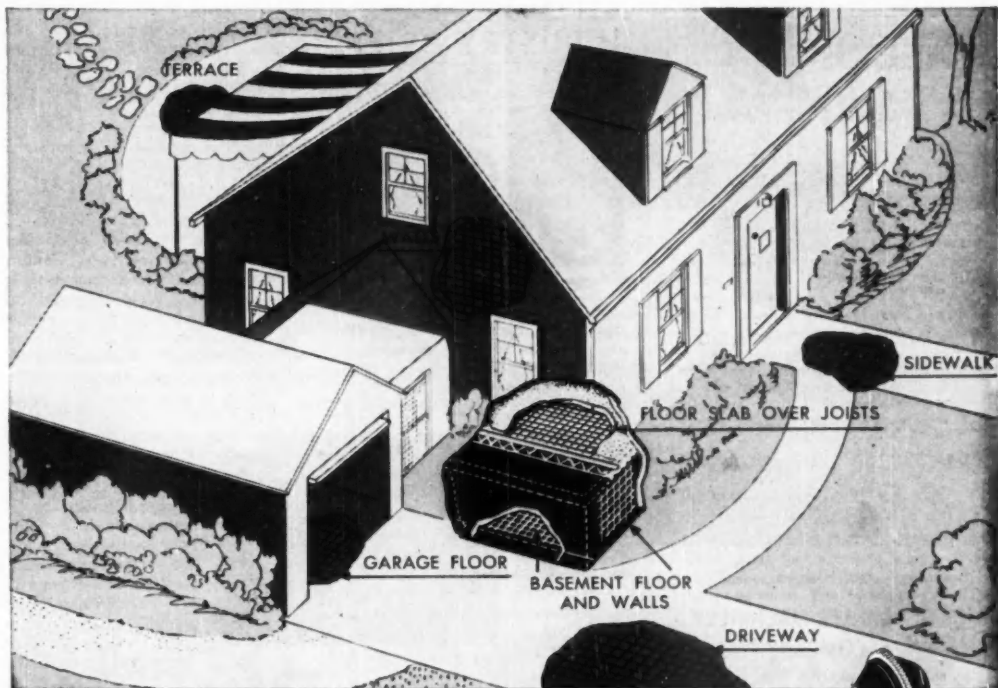
assembly. You get more actual production per hour from labor—no special equipment is needed.

Rilco Type 62 Bowstring Trusses (shown in accompanying construction photos) offer economical and practical support for clear span construction up to 200 feet. An ideal truss for post-free buildings of all types.

**RILCO** WORKS WONDERS  
WITH WOOD

*Laminated* **PRODUCTS, INC.**  
2511 FIRST NATIONAL BANK BUILDING • ST. PAUL 1, MINNESOTA

AMERICAN BUILDER



## Better Values=Quicker Sales

**Y**OU can build longer-lasting value — enduring beauty, stronger sales appeal — into your new homes by reinforcing all concrete construction with American Welded Wire Fabric.

This modern prefabricated reinforcement binds foundation, basement, walls and floors into a solid unit, which resists excessive settling. The common causes of cracked plaster are controlled, thereby minimizing dampness and seepage, warped floors, sagging baseboards and other damages that will, in time, detract from the appearance

and dollar value of your homes.

Also in terraces, sidewalks, curbs and driveways, the many small, closely spaced steel members of U-S-S American Welded Wire Fabric minimize the effect of crack-causing stresses and strains, prevent unsightly fissures and breaks, hollows and bulges. That means your homes and their surroundings continue to look their best for years, without undue expense for maintenance and repairs.

Send today for illustrated folders which show how American Welded Wire Fabric reinforcement builds

more sales appeal into concrete homes of all sizes and types. Address literature requests to American Steel & Wire Company, Room 846, Rockefeller Building, Cleveland 13, Ohio.

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

*Every type of concrete construction needs*

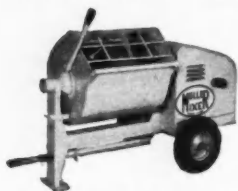


**AMERICAN WELDED WIRE FABRIC**  
*reinforcement*

UNITED STATES STEEL

## 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)

FOB 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 4, N.J. Cable Address MULMIX

## INDUSTRY BRIEFS

**F. L. Cochran, A. I. A.**, has been named a partner in Perkins and Will, architects-engineers, Chicago and White Plains, N. Y. Other partners are Lawrence B. Perkins, A. I. A., Philip Will, Jr., A. I. A., John E. Starrett, M. E., and

**Cochran**

John C. Goodall. The firm name is unchanged. Before joining Perkins and Will in 1945 as an associate, Cochran was technical director of the Chicago Housing Authority.

Ground has been broken at Succasunna, N. J., for a vertical turbine pump plant of **Worthington Pump and Machinery Corp.** The one-story building will measure 80 x 200 feet. Territory served by the new facilities will be east of the Mississippi River and abroad. In charge will be Robert C. Tierney, formerly co-ordinator in the vertical pump division in the firm's plant at Harrison, N. J.

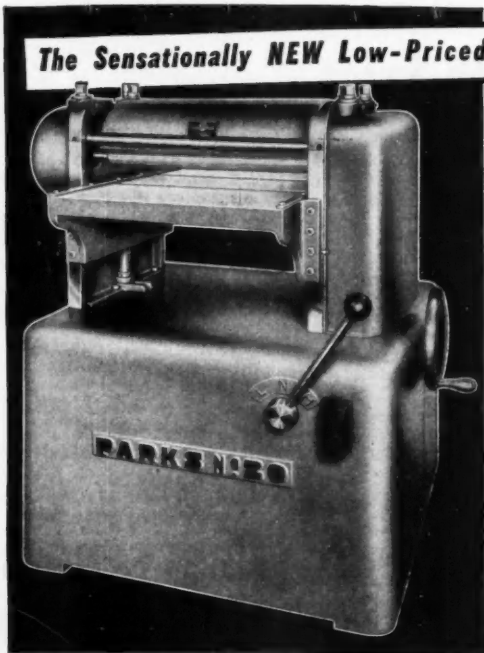
**R. M. Marberry**, Advertising manager of Timken-Detroit Axle Co., has

been appointed merchandising manager of the **Timken Silent Automatic Division**, the company's vice president and general sales manager, T. A. Crawford, has reported. Marberry joined Timken in 1934 as editor of the house magazine, became advertising manager in 1940. He served the Army in 1944 and 1945.

Organization of the new **Traffic Appliance Department of General Electric Co.** has been announced by Charles K. Rieger, general manager. Robert E. Boian has been appointed manager of marketing; Edwin R. Koester, manager of manufacturing; Frank Stehlik, comptroller; William H. Dennler, manager of the heating device division, and Robert Orr, manager of the vacuum cleaner and fan division.

Appointment of **Paul B. Shoemaker** as vice president in charge of sales for **Masonite Corp.** has been announced by Eugene Holland, president. Shoemaker, vice president and director of sales for Georgia-Pacific Plywood Co. since 1949, spent 22 of 28 years in the building materials field with U. S. Gypsum Co., the last five as sales manager. He is an Iowa native and attended the University of Minnesota.

The Sensationally **NEW** Low-Priced



## PARKS No. 20 20" PLANER

Here is a modernly designed, rugged, high-speed, low-priced planer that is ideally suited for every shop and industrial plant requiring a quality sur-facer. The Parks No. 20 Planer has a four-knife cutterhead with a speed of 3600 R.P.M. and offers two feed speeds — 20 and 40 F.P.M., and 40 and 80 F.P.M. Write for complete descriptive literature.

### The PARKS Heavy-Duty 12" x 4" Planer

A compact, sturdy, thickness planer that offers mill planer precision and ruggedness at a sensationally low price. Write for descriptive catalog sheet.



**The PARKS WOODWORKING MACHINE CO., Dept. 30-D 1546 Knowlton St., Cincinnati 23, O.**



# How to Paint CONCRETE MASONRY WALLS

Exposed concrete masonry walls are becoming more and more popular. To keep owners satisfied and to insure future business it is important to finish concrete block walls properly with portland cement paint. Such paints are decorative; they also weatherproof the walls. Here's how to apply them:

**1** Be sure mortar is well cured. Then remove all dirt, dust and loose particles from the concrete masonry wall surfaces. Mixing water should be clean enough to drink. Use a shallow mixing pan.



**2** Both the water and paint powder should be measured carefully and mixed in accordance with manufacturer's recommendations. Use of rubber gloves prevents possible irritation to skin.

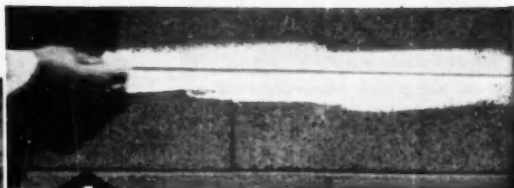
**3** For best results it is important to mix the water and paint powder thoroughly, until the mixture attains the consistency of thick, rich cream. A simple hand egg beater is satisfactory for this job.



**4** Lightly dampen wall surface, using pressure pump or garden hose with a special fine fog nozzle. Do not soak wall. Apply paint while wall is damp but after surface water disappears. Frequent light spray ahead of painter may be needed.



**5** Apply the portland cement paint with a brush having bristles not over 2 in. long. Scrub brushes or fender brushes having stiff bristles of palmyra or Tampico fibers are satisfactory. Whitewash brushes, paint brushes or other brushes having long, flexible bristles of hair are too soft to force the paint into the pores of the concrete block. Stir the paint frequently to keep it of a uniform consistency.



**6** Scrub the portland cement paint into the mortar joints first in order to insure complete sealing of joints. Work on the shady side of the building when possible to keep paint from drying too fast.



**7** Scrubbing paint into rest of wall finishes first (seal) coat. Force the paint into pores of block; merely spreading paint on surface leaves pinholes penetrable by moisture. Let seal coat harden at least 24 hours before applying the finish coat.

**8** Cure each coat by keeping it slightly damp with frequent applications of fine fog spray. Do not soak the wall. Keep seal coat moist at least 24 hours, finish coat 48 hours. Begin spraying as soon as paint has hardened sufficiently to prevent damage.



- DO NOT APPLY PORTLAND CEMENT PAINT—**
- over calcimine, whitewash, oil paints or grease
  - over surfaces which contain frost
  - when outside temperature is below 40 deg. F.
  - before removing efflorescence and filling small cracks

Write for free bulletin on use of portland cement paint. It is distributed only in the United States and Canada.

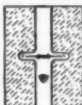
**PORTLAND CEMENT ASSOCIATION**  
DEPT. A6-3, 33 WEST GRAND AVENUE, CHICAGO 10, ILLINOIS

A national organization to improve and extend the uses of portland cement and concrete through scientific research and engineering field work



4 new performance improvement features

**NEW DESIGN INCREASES PERFORMANCE AND SAVINGS**



1 The 1951 ES-nail is distinguished by a design change which positively eliminates danger of loose shingle corners at nailing points where sheathing is backed by studs or wood members. As shown by the adjoining sketch, when the driving leg penetrates a stud, the new design permits a bellows-like expansion into the sheathing material... allowing the nail head to flatten completely without distortion.



2 New longer, wider locking-foot increases holding power of the 1951 ES-nail more than 30% when used with gypsum sheathing and up to 50% with insulation sheathing. Redesigned locking mechanism provides a tight clinch regardless of variations in sheathing, paper, and shingle thicknesses.

3 New, sharper ES-nail point assures quick, clean penetration of sheathing—prevents rupture of sheathing back.

4 New ES-nail head can be driven home with approximately 25% less force—automatically provides a complete clinch of the locking foot even with wide variations in shingle quality and nail-hole size.

Try the new 1951 ES-nail on your next side-wall shingling job!

For complete information write to Elastic Stop Nut Corporation of America, 2330 Vauxhall Road, Union, New Jersey.

**ES-nail®**  
A PRODUCT OF

**Elastic Stop Nut Corporation of America**

Available through Johns-Manville Sales Corp., National Gypsum Co., Weatherbest Corp., Creo-Dipit Co., Inc., Keasbey and Mattison Co., and American Stained Shingle Co.



Approved by the Red Cedar Shingle Bureau, Seattle, Washington, representing manufacturers of Certigrade Shingles.  
©Trade Mark Reg. U. S. Pat. Off.

**INDUSTRY BRIEFS**

Louis J. Francisco, New York sales manager of the Formica Co., for the past 11 years, is the firm's new vice president in charge of sales and advertising. His appointment to succeed J. Roger White, who died



Francisco

March 18, was announced by D. J. O'Conor, president. Francisco began his career with Formica as a factory hand in 1924 after graduation from Miami University, Oxford, Ohio, and joined the Chicago sales force in 1925. Transferred to New York in 1927, he became manager there in 1940.

\*\*\*\*\*

Election of J. Bryer Duff, general sales manager, to vice president of Sargent and Co. has been announced by President C. F. Sargent. Duff joined the company's sales force in 1923. He was assistant sales manager from 1942 until his promotion to general sales manager last year.

\*\*\*\*\*

L. L. Gibson has been named manager of sash and door sales for the Long-Bell Lumber Co., with headquarters in Kansas City, Mo. He takes over the duties of Earl Kenyon, organizer of the department 31 years ago, who plans to retire in the near future. Gibson started his lumber career in the Kansas City office of Long-Bell in 1921. He became sash and door representative in Chicago in 1938, holding that post until his recent promotion.

\*\*\*\*\*

Stockholders of the Georgia-Pacific Plywood and Lumber Co. voted recently to shorten the firm name to Georgia-Pacific Plywood Co. Victor Olson, president and a director of Washington Veneer Corp., Olympia, Wash., a Georgia-Pacific subsidiary, was elected a new director.

\*\*\*\*\*

Herbert E. Plishker, manager of advertising and sales promotion since 1938 of the Westinghouse Electric Corp. lamp division, has been appointed manager of lamp sales, the company has announced. He succeeds Russell E. Ebersole who as staff assistant to Ralph C. Stuart, vice president, now is in charge of all commercial activities for the lamp division. Succeeding Plishker as advertising and sales promotion manager is Harry L. Niederauer, assistant manager for the past seven years.



**REMODEL EASIER . . . FASTER!**  
With an EZ-WAY Folding Stairway

Remodel . . . Modernize! Install an EZ-WAY Folding Stairway to turn waste attic space into useful room for storage, den or bedroom. At nominal cost! See your dealer or write for name of nearest distributor.

**EZ-WAY SALES, INC.**  
A DIVISION OF  
**MINNESOTA WOOD SPECIALTIES, INC.**  
BOX 300, DEPT. A • ST. PAUL PARK, MINN.

how many days a year are you a Slave to this door ???!

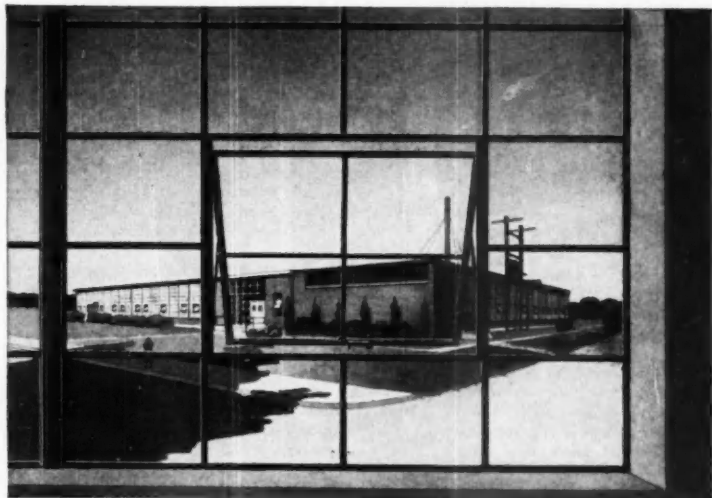
NO longer is it necessary for you to labor in opening your garage doors . . . now you can manage this work with the MAGIC CIRCLE remote control CRANE "300" door operator.

Just push a button in the car and doors open, the lights come on and you are in perfect safety, not dripping wet from rains and safe from the dark nights. Push the button again, and the operation goes into reverse. Simple isn't it?

The Crane "300" is low in first cost . . . and inexpensive to maintain. It's easy to install and will last for years and years! FHA APPROVED. Ask us for additional information!

**FREE!** Without obligation, send for more information by return mail. Write  
H. W. CRANE COMPANY  
1448 WEST LAKE, CHICAGO, ILL.

Harvey Clothing Co., Inc.,  
Quakertown, Penna. Engineers  
and Contractors: Brown and  
Matthews, New York.



## it's FREE—make the most of it . . . with Lupton Windows

**F**ree, natural daylight—capture every bit with Lupton Windows. Natural daylight lessens eye fatigue, makes factories pleasanter places in which to work. Window walls mean savings, too—often cost less than masonry construction and cut lighting bills.

Pictured above are Lupton Commercial Projected Windows—low cost dependability with long life. They offer more daylighting and better ventilation than any other type of window at comparable cost. Precision-made of hot rolled steel, ventilators welded for extra strength, they will not shrink, warp or swell.

Backed by over 40 years experience in the window industry, Lupton offers a wide range of Metal Windows in styles and sizes to meet every building need. Available in complete units, to save installation costs and speed construction. Ask the Lupton Representative for full details, or write for our General Catalog.

**MICHAEL FLYNN MANUFACTURING CO.**  
700 East Godfrey Avenue, Philadelphia 24, Penna.

*Member of the Metal Window Institute and  
Aluminum Window Manufacturers Association*

# LUPTON

# METAL WINDOWS

FOR YOURSELF,  
YOU'D CHOOSE

**WEIR-MEYER**  
FURNACES • AIR CONDITIONERS

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?



Gas



Oil



Coal

Whatever the fuel—gas, oil or coal—there is a WEIR-MEYER warm air steel unit to fit your job. Outputs range from 35,000 Btu/hr through capacities of 1,000,000 Btu/hr and greater for schools, churches, factories and other large installations.

**WEIR-MEYER MEANS**

*Modern HEAT*

THE MEYER FURNACE CO.  
Peoria 2, Ill.

Manufacturers of Weir & Meyer Furnaces  
Air Conditioners for Gas—Oil—Coal  
Factories: Peoria and Peru, Illinois

Keep WEIR-MEYER data on hand for reference. Send for complete File Catalog on WEIR-MEYER Equipment.

The Meyer Furnace Co.  
Builders Service Division  
Peoria 2, Illinois  
Please send File Catalog on the complete WEIR-MEYER line.

Name \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

FILL OUT OR CLIP COUPON  
TO YOUR LETTERHEAD

## INDUSTRY BRIEFS

George M. Curtis has been elected president of Curtis Companies, Inc., Clinton, Iowa, the board of directors has announced. Formerly executive vice president and secretary, he succeeds his uncle, E. J.



George M. Curtis, who died Feb. 28. The new president is the son of George Lewis Curtis, board chairman, and a grandson of George Martin Curtis, one of the company founders. He joined the firm in 1928, shortly after graduation from Yale University, and has served in a number of capacities.

Newly-appointed district manager for the Philadelphia and Baltimore factory branch offices of General Controls Co., Glendale, Calif., is Fred H. Angier. The announcement was made by J. F. Ray, vice president in charge of sales. Angier joined General Controls in 1949 as branch manager in Baltimore after several years with electrical equipment manufacturers. He is a graduate of Massachusetts Institute of Technology and was an Army Air Force major in World War II.

Lester M. Sears, president of Towmotor Corp., Cleveland, since he founded it with his father in 1919, was recently named chairman of the board of directors. He was succeeded as president by C. Edgar Smith, executive vice president since 1947. Towmotor also announced the appointment of Robert L. Fairbank as sales manager. Fairbank has been affiliated with Firestone Tire and Rubber Co. for the past 18 years.

Dr. George E. Ziegler has been named research director for the Zonolite Co., Chicago. It has been announced by Andrew T. Kearney, president. Ziegler has been director of research since 1948 of Midwest Research Institute, Kansas City, Mo., joining that agency in 1945. Prior to that he was chairman of physics research at Armour Research Foundation of Illinois Institute of Technology. He directed defense research programs for the government during World War II.



Ziegler

## COMPARE the new DELTA 40-B

WITH  
ANY OTHER  
RADIAL SAW



ONLY DELTA HAS ALL  
THESE 20 FEATURES

- 1 Capacity: Cut-off 16" x 1" and Rip to Center 48" Panel
- 2 Locks, Levers, Scales, Controls on front
- 3 Inter-locking Safety Plug Disconnects Power Line
- 4 Quick-Set Miter Stops 30°—45°—60°
- 5 Range Full Miter Capacity 0 to 90° RIGHT
- 6 Range Full Miter Capacity 0 to 90° LEFT
- 7 Grease Shielded Ball Bearing Carriage
- 8 Track Wipers Keep Trackways Clean
- 9 Adjustable Nitroloy Lifetime Trackways
- 10 Saw-arm Swings Full 360° Above Work Table
- 11 Motor has "Built-in" 115 to 230 Voltage Changer
- 12 Voltage Relay Start, 1 Phase Totally Enclosed Motor
- 13 Motor Tilts 360° Inside Yoke
- 14 Quick-Set Bevel Stops 30°—45°—60°—90°
- 15 Finger-Tip "Start-Stop" Motor Switch
- 16 Full Cut-off Capacity at Any Angle 0 to 90°
- 17 Safety Guard Fully Encloses Saw Blade
- 18 Means Provided to Attach Extension Tables
- 19 Column Elevating Handle at Front
- 20 28 cu. ft. Tool Storage Cabinet Base

Saw Brand "X" with saw arm has only 5 of these features; Saw Brand "Y" with sliding arm has only 8 of these features; Delta has all 20. Write for complete Delta radial saw data, including cost comparisons, or see classified phone books under "Tools" for dealer's name.

There's a Delta Power Tool for your job. WOOD or METAL WORKING  
53 MACHINES • 206 VARIETIES • MORE THAN 1300 ACCESSORIES

DELTA POWER TOOL DIVISION  
**Rockwell**  
MANUFACTURING COMPANY  
6357 E. VIENNA AVE., MILWAUKEE 1, WIS.



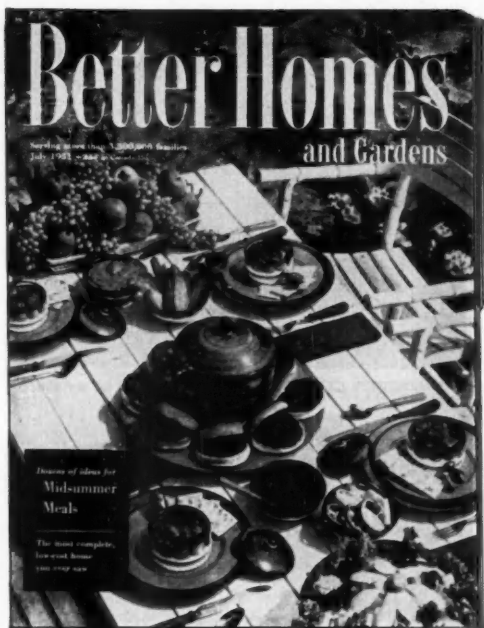
to caulk easier . . . faster . . . better  
**contractors choose Calbar!**

Wherever air-tight, weatherproof perfection is required . . . call on non-hardening, non-staining CALBAR CAULKING COMPOUND. It's "elastized" and adheres to ANY surface.  
**available everywhere** in a complete line of colors and containers. Write for the name of your nearest distributor.

**CALBAR PAINT & VARNISH CO.**  
Manufacturers of Technical Products  
2612-26 N. Martha Street • Philadelphia 25, Pa.



AMERICAN BUILDER



*Removable windows make housekeeping easier*

**R-O-W Removable Window Lift Car To Wash Both Sides Inexpensively**

Work Smarter! R-O-W Wood Windows can be washed in 15 minutes without the tedious window-washing in search of a clean pane. The Carriage mounted on top of the window, R-O-W Lift Car, is quickly removed by pulling each side to the side. It fits in built-in window, averages R-O-W Removable Wood Windows. Ask your salesman or dealer or see your local listing.

Detail: Clean on your floor too as R-O-W window is for windows. Set it in place in minutes for you. Free your hands for cleaning. When the window is being completely cleaned on R-O-W Removable Wood Windows. I see. What your agent or the sales office. No charge for catalogue or price.

**R-O-W SALES COMPANY**  
 1339 ACADEMY AVENUE - FERRDALE 20, MICHIGAN

This R-O-W full page, green and black advertisement will be **PRE-selling** the **"Feature that Can Close the Sale"** to more than 3,600,000 home-minded readers of **BETTER HOMES AND GARDENS—July Issue...**

**WATCH FOR IT!**

**R·O·W**  
*Removable*  
**WINDOWS**  
**WORLD'S LARGEST SELLING WOOD WINDOWS**

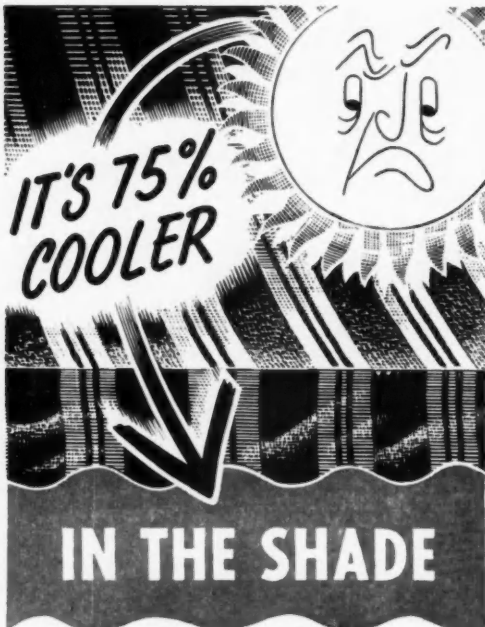
Tie-in merchandising aids such as counter cards, window stickers, newsmats, etc. are available at no charge. Just ask your R-O-W salesman.

**R-O-W SALES COMPANY**  
 1339 Academy—Ferndale 20, Michigan

Yes, at no obligation, please send me complete information and the name of the nearest R-O-W distributor.

Name \_\_\_\_\_ I am  
 Company \_\_\_\_\_  Architect  
 Address \_\_\_\_\_  Builder  
 City \_\_\_\_\_  Dealer  
 \_\_\_\_\_  Carpenter-Contractor

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



## OF *Canvas Awnings*

Nothing that costs so little adds so much to home comfort.

Research shows that heat passing through windows is reduced as much as 75% when shaded by Canvas Awnings.

Canvas Awnings add the modern touch . . . give both old and new homes protection from sun on interior furnishings . . . provide cooler living all summer long.

Your local Canvas Awning dealer can provide fabrics, hardware, and low cost installation. He is qualified to advise.



THE CANVAS AWNING INSTITUTE, INC.  
and NATIONAL COTTON COUNCIL

"There is No Substitute for Canvas Awnings"



DOUBLE FRONT EXPOSURE house plan arranged for a corner lot

### A Practical Design Without Frills

This house is one of a group of semi-custom designed homes built by Fritz Bros., Inc., builders, Minneapolis, Minn. Design-wise this house follows the pattern established by the other houses in this subdivision, except for the addition of a porch. The outdoor screened porch is a feature not often found in a house of this size—not more than 1,200 square feet of living area. It is more often associated with houses of greater area where the cost element is not of such prime importance.

Five rooms and porch are enclosed within the perimeter walls. Included are entrance vestibule, living and dining area, kitchen, bath and two bedrooms. A full basement provides space for recreation and all utilities.

Exterior walls of house are faced with 8-inch beveled wood siding. Roof is covered with asphalt shingles laid up with Boston type metal ridge and valleys.

Selling price of house is \$14,500.



#### •FIRST FLOOR PLAN•

FLOOR PLAN arrangement meets requirement of a small family

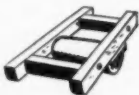
#### 45 Million Dwellings

There are 45,875,000 houses and apartment units in the United States in April, 1950, the latest month for which figures are available.

AMERICAN BUILDER

To handle timber, you need  
the right kind of dolly.

this



not this

Same way with trucks.  
Get one that fits the job!

# Haul bigger loads with dependable **DODGE** "Job-Rated" TRUCKS



Get a Dodge truck that's "*Job-Rated*"—factory-engineered for the building supply business—and you'll cut costs by hauling bigger payloads.

Your Dodge "*Job-Rated*" truck will have scientific weight distribution to permit you to carry bigger loads of building supplies without overloading. And increased rear axle capacity on many models assures greater Gross Vehicle Weights than before!

What's more, you can count on Dodge "*Job-Rated*" engineering to provide a truck that saves in every way. You get Dodge *dependability* throughout—your assurance of low upkeep costs and long truck life.

**New Dodge "*Job-Rated*" trucks give you more power than ever.** You get the *right* power for the job—the power you need with the economy you want.

Let your nearby Dodge dealer show you the value and economy of a new Dodge "*Job-Rated*" truck. Do it soon!

## "Job-Rated" TRUCKS DO THE MOST FOR YOU

JUNE, 1951

### How Dodge trucks are "*Job-Rated*" for the building supply business

A Dodge "*Job-Rated*" truck is engineered *at the factory* to fit a specific job . . . save you money . . . last longer.

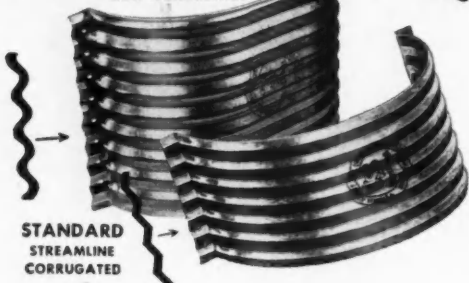
Every unit from engine to rear axle is "*Job-Rated*"—factory-engineered to haul a specific load over the roads you travel and at the speeds you require.

**Every unit that SUPPORTS the load**—frame, axles, springs, wheels, tires, and others—is engineered right to provide the strength and capacity needed.

**Every unit that MOVES the load**—engine, clutch, transmission, propeller shaft, rear axle, and others—is engineered right to meet a particular operating condition.

The Complete  
line of **STEEL**  
**WINDOW WELLS**  
**USF**  
Custom & Standard

CUSTOM  
DEEP CORRUGATED



STANDARD  
STREAMLINE  
CORRUGATED

Custom STYLE FOR TOP QUALITY  
Standard STYLE FOR PEAK ECONOMY

USF offers the complete line—deep corrugated Custom Window Wells with rolled top, wide flanges and extra-heavy bright galvanized finish in straight or round type—for the finest quality construction work.

For peak economy, the especially developed streamline-corrugated galvanized Standard Window Well provides years of service at lowest cost. USF Window Well Dealers carry both to meet all classes of requirements.



GRILLE GUARDS  
Made of heavy expanded metal with angle frames to fit both styles of wells.

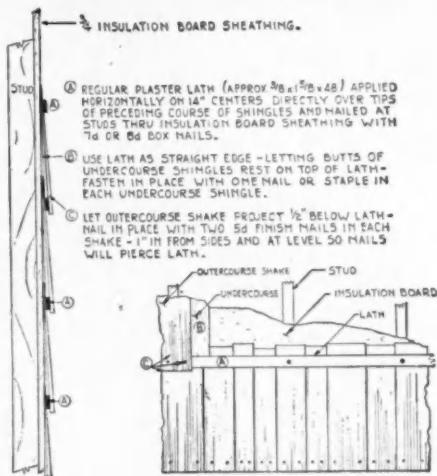
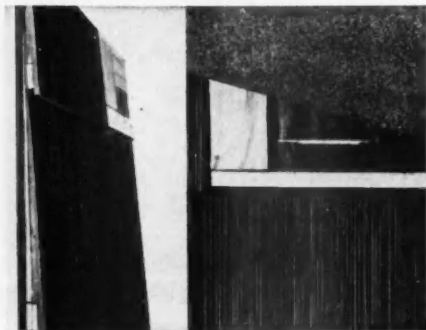
PRODUCTS

- Hollow Metal Doors and Frames
- Prefabricated Metal Buildings
- Corrugated Metal Window Wells
  - Highway Guard Rail
  - Structural Plate
  - Bridge Flooring
  - Corrugated Metal Pipe



**UNITED STATES FABRICATORS, INC.**  
WOOSTER, OHIO

New Method of Applying Shingles  
To Insulating Board Sheathing



A NEW, satisfactory and economical method of applying double-coursed wood shingles to buildings with insulating board sheathing has been developed by Perma Products Co., Cleveland, Ohio. The photos and drawings above illustrate the technique, which involves the use of ordinary wood lath as nailing strips. These are nailed directly to the studs in the manner shown.

New Tree Farm Dedicated  
In California Redwood Area

Union Lumber Company has announced the dedication of 65,331 acres of its timber holdings, forming two tree farms—one on the Noyo River and the second on Big River.

The formal ceremony marked the dedication of the largest acreage to be certified as tree farms in the redwood region, and one of the biggest in the entire country this year. The dedication ceremony under the direction of the California Redwood Association, certifying authority for tree farms in the redwood region.

Principal speaker at the outdoor ceremony was W. S. Rosecrans, chairman of the California State Board of Forestry. Otis R. Johnson, president of the company, accepted the Tree Farm certificates from Gordon J. Manary, chairman of the association's Tree Farm Committee.

AMERICAN BUILDER





With Weldwood Plywood, it's easy for you to transform a shabby, space-wasting basement into a modern, spirited playroom like this. Other rooms lend themselves to similar treatment.

## How you can swing the profitable remodeling market your way!

Now that folks are saying "Let's finish the attic"... "Let's re-do the living room"... "Let's build that extra bedroom"... here's a practical suggestion on how to cash in.

*Make yourself an "Information Center" on modernizing by remodeling.*

The vast remodeling market will more than make up for any drop in new construction business, if you go after it!

Simply explain to prospects and customers the wonderful installations you can build for them with Weldwood® paneling, not only for attics, living rooms, and extra bedrooms, but for such improvements as bookcases, cupboards, television corners and, of course, ceilings of Weldtex Squares.

Rooms modernized with decorative Weldwood Hardwood Plywood in birch, oak, walnut, Korina or any of the many other fine Weldwood panels mean a delighted customer and a profitable job for you.

And don't forget—everyone of those happily-satisfied customers is a talking advertisement for Weldwood—and for you. Calls on your customers' neighbors may well uncover a lot of new remodeling business—because *everyone* has at least *one* room he'd like to remodel with WELDWOOD!

And you've really got something *special* to talk about with interior grade Weldwood Plywood... for it's guaranteed for the life of the building in which it is used.



Look what Weldwood Plywood did for *this* living room! There probably are many opportunities for similar living room remodeling jobs in nearby residential sections. Make a survey and see!

*Our fine, new slide film entitled, "Building Better with Weldwood Plywood," tells the complete and up-to-date story of plywood installation in all its many phases. Running time 15 minutes. Ask your lumber dealer to show you this interesting and helpful film. Or write us for your free copy of our new installation book which covers the same subject in booklet form.*



### WELDWOOD Plywood

Manufactured and distributed by

**UNITED STATES PLYWOOD CORPORATION** New York 18, N. Y.

and **U. S.-MENGEL PLYWOODS, INC.**, Louisville 1, Ky.

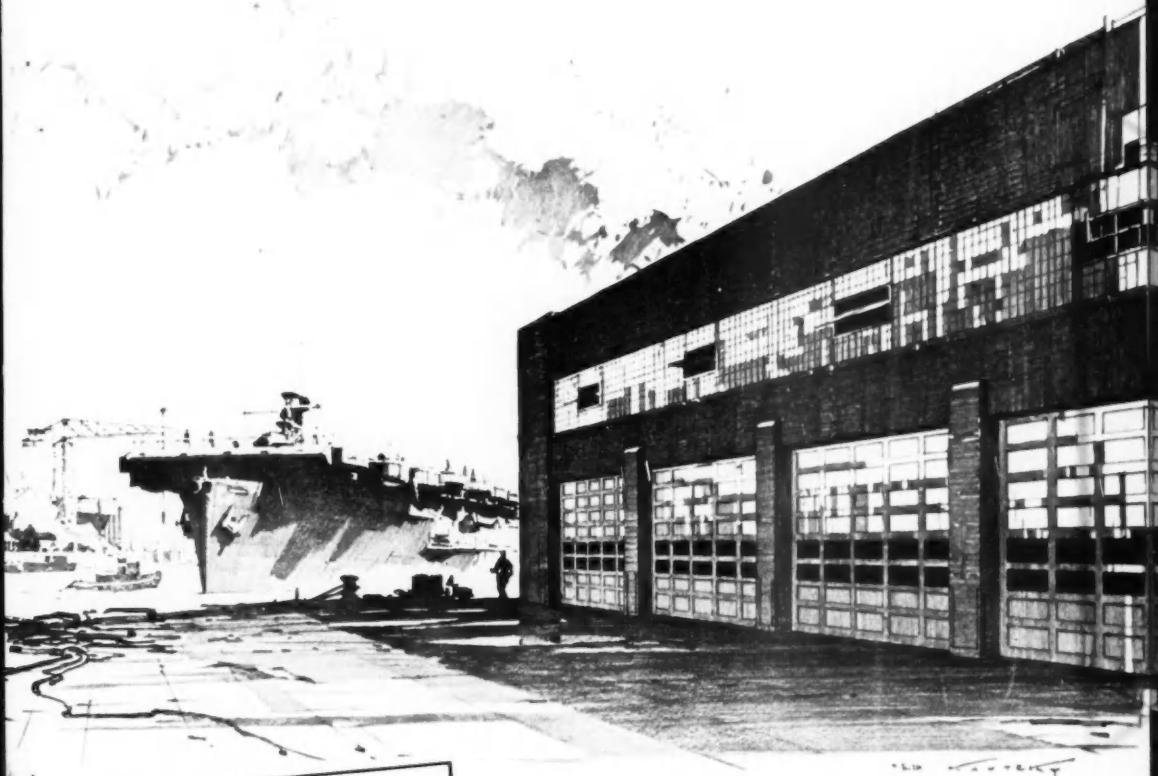
Branches in Principal Cities • Distributing Units in Chief Trading Areas • Dealers Everywhere



THE

# OVERHEAD DOOR

TRADE MARK



*Only...*  
 OVERHEAD DOOR CORPORATION  
 and its manufacturing divisions make  
 THE  
**OVERHEAD DOOR**  
 TRADE MARK

**MIRACLE WEDGE \***  
**SALT SPRAY STEEL \***

\* TRADE MARK

COPYRIGHT, 1951. OVERHEAD DOOR CORPORATION

## OVERHEAD DOOR CORPORATION

Hartford City, Indiana, U. S. A.

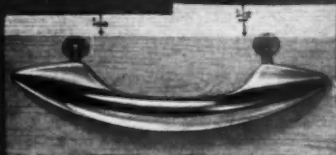
MANUFACTURING DIVISIONS

GLENDAL, CALIFORNIA  
OKLAHOMA CITY, OKLAHOMA

DETROIT, MICHIGAN  
PORTLAND, OREGON

HILLSIDE, NEW JERSEY  
LEWISTOWN, PENNSYLVANIA

CORTLAND, NEW YORK  
DALLAS, TEXAS



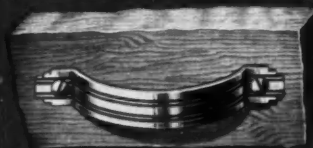
No. 217 Door and Drawer Pull

**No. 217 Door and Drawer Pull**—For material  $\frac{3}{4}$  inch to  $1\frac{1}{8}$  inches. Length  $4\frac{1}{2}$  inches. Available in cold rolled steel and solid brass in any finish desired.



No. 216 Round Knob Pull

**No. 216 Round Knob Pull**— $1\frac{1}{8}$  inches in diameter. For material  $\frac{3}{4}$  inch to  $1\frac{1}{8}$  inches. Made of solid brass. Available in any finish.



No. 107 Drawer Pull

**No. 107 Drawer Pull**—Made of solid brass. Available in any finish. Packed one in an envelope, with  $\frac{3}{8}$  x 7 oval-head screws.



No. 106 Door Pull

**No. 106 Door Pull**—Made of solid brass. Matches the style of No. 706 Cabinet Door Latch. Available in any finish.



No. 706 Cabinet Door Latch

**No. 706 Cabinet Door Latch**—For doors  $\frac{3}{4}$  to  $1\frac{1}{8}$  inches thick. Made of cold rolled steel with solid-brass handle. Latch mechanism is operated by push-button.



No. 707 Cabinet Door Latch

**No. 707 Cabinet Door Latch**—Same as No. 706 except that latch mechanism is operated by combination lever and handle.

# How Good Can Hardware Be?

**50th**  
ANNIVERSARY  
YEAR 1951

**NATIONAL**  
Manufacturing  
Company

**NATIONAL  
HARDWARE  
IS CONSUMER-  
ACCEPTED AND  
TIME-TESTED  
OVER A PERIOD  
OF 50 YEARS**

By dint of constant experiment and improvement, National has made GOOD HARDWARE EVEN BETTER. We invite you to join the ranks of our many friends and customers who continue to patronize us in our 50th year in business.

## USE THIS 4-WAY TIME SAVER

1. See your National Dealer
2. Consult his National Wall Chart
3. Check the items you need
4. Your Dealer does the rest

**NATIONAL MANUFACTURING CO., Sterling, Illinois**